



PACKAGED GAS / ELECTRIC

**LGH**

E-Series™ Rooftop Units

60 Hz

**COMMERCIAL  
PRODUCT SPECIFICATIONS**

Bulletin No. LGH-156-300 (02/2020)



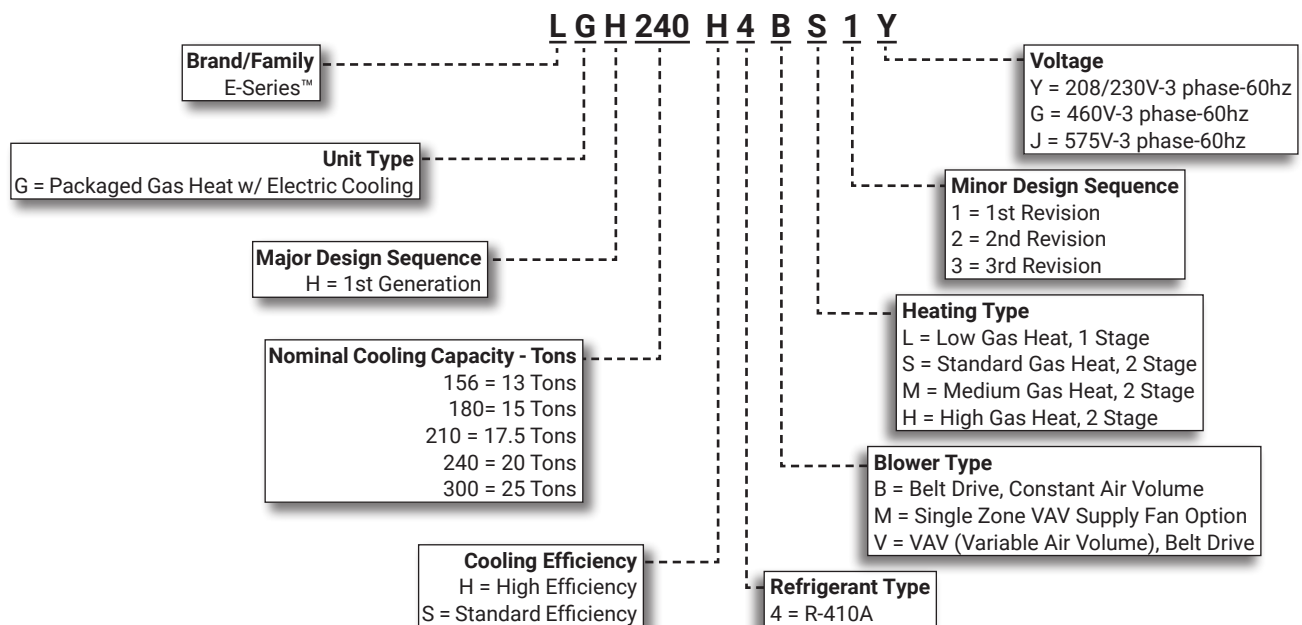
**ASHRAE 90.1  
COMPLIANT**



**13 to 25 Tons**

**Net Cooling Capacity - 148,000 to 270,000 Btuh  
Gas Input Heat Capacity - 169,000 to 480,000 Btuh**

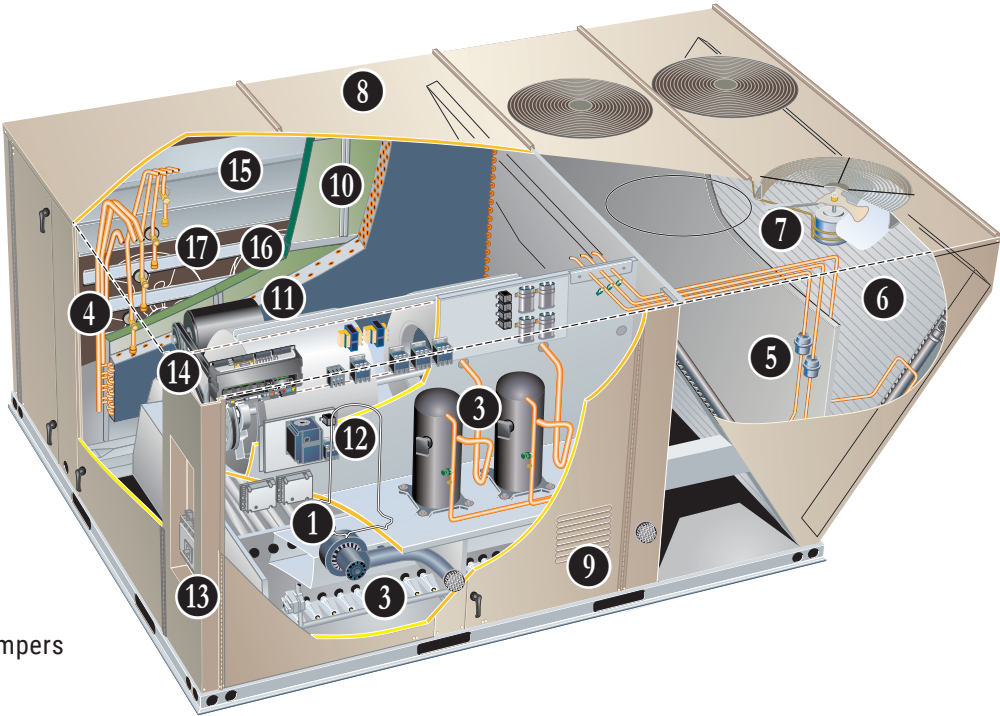
**MODEL NUMBER IDENTIFICATION**



FEATURE HIGHLIGHTS

E-Series™ packaged rooftop unit product line was created to save energy with intelligence by offering some of the highest energy efficiency ratings available with a powerful, easy to use unit controller. This makes E-Series™ rooftop units perfect for business owners looking for an HVAC product with the lowest total cost of ownership.

- 1. Heat Exchanger
- 2. Inshot Burners
- 3. Scroll Compressors
- 4. Thermal Expansion Valves
- 5. Filter/Driers
- 6. Eco-Last™ Coil System
- 7. Outdoor Coil Fan Motors
- 8. Heavy Gauge Steel Cabinet
- 9. Hinged Access Panels
- 10. Air Filters
- 11. Constant or Single Zone VAV Air Volume Blower
- 12. Variable Frequency Drive (VFD)
- 13. Disconnect Switch (option)
- 14. Intelli-Guide™ Control System
- 15. Economizer (option)
- 16. Downflow Barometric Relief Dampers (option)
- 17. Power Exhaust Fans (option)



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## APPROVALS AND WARRANTY

### **APPROVALS**

- AHRI Standard 340/360 certified
- ETL and CSA listed
- CSA certified energy ratings
- Unit and components ETL, NEC and CEC bonded for grounding to meet safety standards for servicing
- All models are ASHRAE 90.1-2010 energy efficiency compliant and meet or exceed requirements of Section 6.8
- All models meet DOE 2018 energy efficiency standards
- Single Zone VAV models meet California Code of Regulations, Title 24 and ASHRAE 90.1-2010 Section 6.4.3.10 requirements for staged airflow
- ENERGY STAR® certified
- ISO 9001 Registered Manufacturing Quality System

### **WARRANTY**

- Aluminized Heat Exchanger - Limited ten years
- Stainless Steel Heat Exchanger (optional) - Limited fifteen years
- Compressors - Limited five years
- Allied Eco-Last™ Coil System - Limited three years
- Intelli-Guide™ Unit Controller - Limited three years
- Optional High Performance Economizers - Limited five years
- All other covered components - Limited one year

## FEATURES AND BENEFITS

### **HEATING SYSTEM**

- 1** Heat Exchanger
- Tubular construction, aluminized steel
  - Life-cycle tested

**NOTE** - Optional Stainless Steel Heat Exchanger is required if mixed air temperature is below 45°F.

- 2** Aluminized steel inshot burners
- Direct spark ignition
  - Electronic flame sensor
  - Combustion air inducer
  - Redundant automatic dual stage gas valve with manual shut-off

#### **Electronic Pilot Ignition**

- Electronic spark igniter provides positive direct ignition of burners on each operating cycle
- Permits main gas valve to stay open only when the burners are proven to be lit
- If loss of flame occurs, gas valve closes, shutting off the gas to the burners
- LED indicates status and aids in troubleshooting
- Factory installed in the control section

#### **Limit Controls**

- Redundant limit controls with fixed temperature setting
- Protects heat exchanger and other components from overheating

#### **Safety Switches**

- Flame roll-out switch
- Flame sensor
- Combustion air inducer proving switch
- Protects system operation

#### **Required Selections**

##### **Gas Input Choice - Order one:**

- Low Gas Heat, 1 Stage (169,000 Btuh)
- Standard Gas Heat, 2 Stage (169,000/260,000 Btuh)
- Medium Gas Heat, 2 Stage (234,000/360,000 Btuh)
- High Gas Heat, 2 Stage (312,000/480,000 Btuh)

**NOTE** – Two-stage heat models can be operated with four stages of gas heating when controlled in either zone sensor, Discharge Air Control, or fresh air tempering mode on the Intelli-Guide™ unit controller. See Gas Heating Specifications table.

### **HEATING SYSTEM (continued)**

#### **Options/Accessories**

#### **Factory Installed**

## FEATURES AND BENEFITS

### Stainless Steel Heat Exchanger

- Required if mixed air temperature is below 45°F

### Factory or Field Installed

#### Bottom Gas Piping Kit

- Allows bottom gas entry
- Factory installed kit is furnished with the unit for field installation

#### Low Temperature Vestibule Heater

- Electric heater automatically controls minimum temperature in gas burner compartment when temperature is below -40°F
- CSA certified to allow operation of unit down to -60°F

### Field Installed

#### Combustion Air Intake Extensions

- Recommended for use with existing flue extension kits in areas where high snow areas can block intake air
- Order two kits

#### LPG/Propane Kits

- Conversion kit to field change over units from Natural Gas to LPG/Propane
- Order two kits

#### Vertical Vent Extension Kit

- Use to exhaust flue gases vertically above unit
- Required when unit vent is too close to fresh air intakes per building codes
- Also prevents ice formation on intake louvers
- Kit contains vent transition, vent tee, drain cap and installation hardware
- Order two kits.

**NOTE** - Straight vent pipes (4 in. B-Vent) and caps are not furnished and must be field supplied. Refer to kit instructions for additional information.

### COOLING SYSTEM

- Designed to maximize sensible and latent cooling performance at design conditions
- System can operate from 0°F to 125°F without any additional controls

#### R-410A Refrigerant

- Non-chlorine based
- Ozone-friendly

### **3** Scroll Compressors

- Scroll compressors on all models for high performance, reliability and quiet operation
- Resiliently mounted on rubber grommets for quiet operation

### Compressor Crankcase Heaters

- Protects against refrigerant migration that can occur during low ambient operation

### **4** Thermal Expansion Valves

- Assures optimal performance throughout the application range
- Removable element head

### **5** Filter/Driers

- High capacity filter/drier protects the system from dirt and moisture

### High Pressure Switches

- Protects the system from high pressure conditions

### Low Pressure Switches

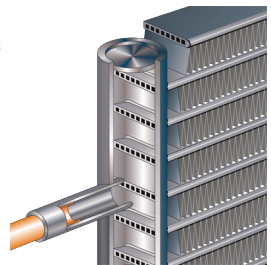
- Protects the compressors from low pressure conditions such as low refrigerant charge, or low/no airflow

### Freezestats

- Protects the evaporator coil from damaging ice build-up due to conditions such as low/no airflow, or low refrigerant charge

### **6** Condenser Coil - Eco-Last™ Coil System Lightweight, all aluminum brazed fin construction

- Constructed of three components
  - A flat extrusion tube
  - Fins in-between the flat extrusion tube
  - Two refrigerant manifolds



### Eco-Last™ Coil System Features:

- Improved heat transfer performance due to high primary surface area (flat tubes) versus secondary surface (fins)
- Smaller internal volume (reduced refrigerant charge)
- High durability
- All aluminum construction
- Fewer brazed joints
- Compact design
- Reduced unit weight
- Easy maintenance/cleaning
- Face split design
- Mounting brackets with rubber inserts
- Angled cabinet design protects coil from damage

## FEATURES AND BENEFITS

### **COOLING SYSTEM (continued)**

#### **Evaporator Coil**

- Copper tube construction
- Enhanced rippled-edge aluminum fins
- Flared shoulder tubing connections
- Silver soldered construction
- Factory leak tested
- Cross row circuiting with rifled tubing

**NOTE** - Constant air volume (CAV) and Single Zone VAV models have face-split evaporator coils designed to keep condensate water off of an inactive part of the coil so the condensate will not re-enter the air stream.

Variable air volume (VAV) models have row-split, intertwined evaporator coils.

#### **Condensate Drain Pan**

- Plastic pan, sloped to meet drainage requirements per ASHRAE 62.1
- Side or bottom drain connections

### **7 Outdoor Coil Fan Motors**

- Thermal overload protected
- Totally enclosed
- Permanently lubricated ball bearings
- Shaft up
- Wire basket mount

#### **Outdoor Coil Fans**

- PVC coated fan guard furnished

### **Required Selections**

#### **Cooling Capacity**

- Specify nominal cooling capacity

### **Options/Accessories**

### **Factory Installed**

#### **Conventional Fin/Tube Condenser Coil (replaces Eco-Last™ Coil System)**

- Copper tube construction
- Enhanced rippled-edge aluminum fins
- Flared shoulder tubing connections
- Silver soldered construction

**NOTE** - Not available for VAV equipped models.

#### **Discharge Air Temperature Sensor**

- Sensor sends information to the unit controller to cycle up to 2 stages of heating or 4 stages of cooling to maintain the discharge air setpoints for heating or cooling
- Optional for CAV units (single zone or bypass zoning control)
- Furnished with all Variable Air Volume (VAV) units
- Sensor is shipped with the unit for remote field installation in the supply duct

#### **Service Valves**

- Fully serviceable brass valves installed in discharge & liquid lines

**NOTE** - Not available for units equipped with Eco-Last™ Coil System or Dehumidification option.

### **Factory or Field Installed**

#### **Condensate Drain Trap**

- Available in copper or PVC
- Field installed only, may be factory ordered to ship with unit

#### **Drain Pan Overflow Switch**

- Monitors condensate level in drain pan
- Shuts down unit if drain becomes clogged

### **CABINET**

### **8 Construction**

- Heavy-gauge steel panels
- Full perimeter heavy-gauge galvanized steel base rail
- Base rails have rigging holes
- Three sides of the base rail have forklift slots
- Raised edges around duct and power entry openings in the bottom of the unit for water protection

#### **Airflow Choice**

- Units are shipped in downflow (vertical) return air flow configuration

**NOTE** - Units can be field converted to horizontal air flow with optional Horizontal Return Air Panel Kit and Horizontal Roof Curb.

#### **Power/Gas Entry**

- Electrical and gas lines can be brought through the unit base or through horizontal access knock-outs

#### **Exterior Panels**

- Constructed of heavy-gauge, galvanized steel
- Two-layer enamel paint finish

#### **Insulation**

- Fully insulated with non-hygroscopic fiberglass insulation (conditioned areas)
- Unit base is fully insulated
- Base insulation serves as an air seal to the roof curb, eliminating the need to add a seal during installation

### **9 Hinged Access Panels**

- Filter section
- Blower section
- Heating section
- Compressor/controls section.
- Panel seals and quarter-turn latching handles provide a tight air and water seal

## FEATURES AND BENEFITS

### CABINET (continued)

#### Required Selections

##### Airflow Configuration

- Specify downflow or horizontal

#### Options/Accessories

### Factory Installed

##### Corrosion Protection

- Completely flexible immersed coating
- Electrodeposited dry film process
- AST ElectroFin E-Coat
- Meets Mil Spec MIL-P-53084, ASTM B117 Standard Method Salt Spray Testing
- Indoor Corrosion Protection:
  - Coated coil
  - - Coated reheat coil (Dehumidification)
  - - Painted blower housing
  - - Painted base
- Outdoor Corrosion Protection:
  - Coated coil
  - Painted outdoor base

### Field Installed

##### Combination Coil/Hail Guards

- Heavy gauge steel frame
- Painted to match cabinet
- Expanded metal mesh protects outdoor coil

##### Horizontal Return Air Panel Kit

- Required for horizontal applications with Horizontal Roof Curb
- Contains panel with return air opening for field replacement of existing unit panel and panel to cover bottom return air opening in unit
- See dimension drawings

### INDOOR AIR QUALITY

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##### Air Filters

- Disposable 2 inch filters furnished as standard

#### Options/Accessories

### Factory or Field Installed

##### High Efficiency Air Filters

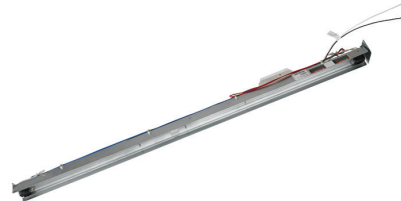
- Disposable MERV 8 or MERV 13 (Minimum Efficiency Reporting Value based on ASHRAE 52.2) efficiency 2 inch pleated filters

##### Replacement Filter Media Kit With Frame

- Replaces existing pleated filter media
- Includes washable metal mesh screen and metal frame with clip for holding replaceable non-pleated filter

### Field Installed

##### UVC Germicidal Light Kit



- Germicidal lamps emit ultra-violet (UV-C) energy, which has been proven to be effective in reducing microbes such as viruses, bacteria, yeasts, and molds
- This process either destroys the organism or controls its ability to reproduce
- UV-C energy greatly reduces the growth and proliferation of mold and other bioaerosols (bacteria and viruses) on illuminated surfaces (particularly coil and drain pan)
- Field installed in the blower/evaporator coil section
- All necessary hardware for installation is included.
- Lamps operate on 110/230V, 1 phase power supply

**NOTE** - Step-down transformer must be field supplied when used with 460V and 575V rooftop units. Step-down transformer is furnished with lamps when factory installed.

- Approved by ETL

##### Indoor Air Quality (CO<sub>2</sub>) Sensors

- Monitors CO<sub>2</sub> levels, reports to the Intelli-Guide™ unit controller which adjusts economizer dampers as needed



## FEATURES AND BENEFITS

### **BLOWER**

- A wide selection of supply air blower options are available to meet a variety of airflow requirements

#### **Motor**

- Overload protected, equipped with ball bearings
- Belt drive motors are offered on all models and are available in several different sizes to maximize air performance

**NOTE** - All blower motors 5 hp and above meet minimum energy efficiency standards in accordance with the Energy Independence and Security Act (EISA) of 2007

### **11 Supply Air Blower**

- Forward curved blades
- Double inlet
- Blower wheel statically and dynamically balanced
- Ball bearings
- Adjustable pulley (allows speed change)
- Blower assembly slides out of unit for servicing
- Grease fittings furnished

#### **Supply Static Pressure Transducer (156/180/240 VAV Models Only)**

- Sends information to the Intelli-Guide™ unit controller to control VFD blower speed
- Shipped with the unit for remote field installation in the supply duct

#### **Required Selections**

#### **Select Constant Air Volume (CAV), Variable Air Volume (VAV) or Single Zone VAV**

- Constant Air Volume (CAV) models supply a constant volume of air
- Variable Air Volume (VAV) (156/180/240 Models Only) variable frequency drive (VFD) varies the air volume to maintain a constant duct static pressure
- Single Zone VAV models stages the amount of airflow according to compressor stages, heating demand, ventilation demand or smoke alarm

**NOTE** - Units with the Single Zone VAV supply air blower option have the same face split indoor coils as units with the CAV supply air blower option. Part load airflow in cooling mode on Single Zone VAV units should not be set below 220 cfm/nominal full load ton to reduce the risk of evaporator coil freeze-up.

- 12** • Utilizes a Variable Frequency Drive (VFD) to stage the supply blower airflow
- VFD alters the frequency and voltage of the power supply to the blower to control blower speed
- The amount of airflow for each stage can be set according to a parameter in the Intelli-Guide™ unit controller
- Unit is shipped from the factory with preset airflow
- Single Zone VAV can be ordered with or without an Electronic Bypass Control
- If equipped with the bypass control the Single Zone VAV features manual (default) or automatic electronic bypass control of the VFD
- In case of a VFD malfunction, a VFD alarm is generated by the Intelli-Guide™ unit controller
- VFD can be manually bypassed to continue unit operation at full blower speed
- Or the unit controller can be set to automatically switch to full blower speed if a VFD alarm is generated
- VFD has an operational range of 0 to 125°F outdoor air ambient temperature
- Lower operating costs are obtained when the blower is operated on lower speeds

#### **Ordering Information**

- Specify motor horsepower and drive kit number when base unit is ordered

#### **Options/Accessories**

#### **Factory Installed**

##### **Blower Belt Auto-Tensioner**

- Provides proper tension to belt drive blower belt without the need for regular adjustments
- Maintains airflow and proper performance

## FEATURES AND BENEFITS

### ELECTRICAL

#### WireRight™ System

- Keyed and color-coded wiring connectors prevent miswiring
- Wire coloring scheme is standardized across all models
- Each connection is intuitively labeled to make troubleshooting and servicing quick and easy

#### Electrical Plugs

- Positive connection electrical plugs connect common accessories or maintenance parts for easy removal or installation

### Required Selections

#### Voltage Choice

- Specify when ordering base unit

### Options/Accessories

### Factory Installed

#### Circuit Breakers

- HACR type
- For overload and short circuit protection
- Factory wired and mounted in the power entry panel
- Current sensitive and temperature activated
- Manual reset

#### Phase/Voltage Detection (Optional for CAV Models Only)

- Monitors power supply to assure phase is correct at unit start-up
- If phase is incorrect, the unit will not start and an alarm code is reported to the unit controller
- Protects unit from being started with incorrect phasing which could lead to issues such as compressors running backwards
- Voltage detection monitors power supply voltage to assure proper voltage
- If voltage is not correct (over/under voltage conditions) the unit will not start and an alarm code is reported to the unit controller

**NOTE** - Phase/voltage detection is furnished when the Single Zone VAV option is ordered.

#### Short-Circuit Current Rating (SCCR)

- Higher short circuit protection up to 100kA

### Factory or Field Installed

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#### Disconnect Switch

- Accessible outside of unit
- Spring loaded weatherproof cover furnished

#### GFI Service Outlets (2)

- 115V ground fault circuit interrupter (GFCI) type
- Available non-powered, field-wired or factory-wired and powered

### Field Installed

#### GFI Weatherproof Cover

- Single-gang cover
- Heavy-duty UV-resistant polycarbonate case construction
- Hinged base cover with gasket



### INTELLI-GUIDE™ CONTROL SYSTEM



- 14 The Intelli-Guide™ unit controller is a microprocessor-based controller that provides flexible control of all unit functions.

#### Features:

- LCD Display
- Easy to read menu (4 lines x 20 character display)
- Buttons for menu navigation during setup and diagnostic
- Menu navigation LEDs for Data, Setup, Service, Settings
- Main Menu and Help Buttons for quick navigation to home screen and built-in help functions
- Scroll, Value Adjustment Select and Save Buttons
- Setup menu insures proper installation and simplified setup of the rooftop unit
- Profile setup copies key settings between units with the same configuration to reduce setup time
- USB port allows a technician to download and transfer unit information to help verify service was performed
- USB software updates on the Prodigy Control System enhance functionality without the need to change components
- Unit Controller Software
- Unit self-test verifies individual critical component and system performance
- Economizer test function assures economizer is operating correctly
- Time Clock with Run-Time Information

#### Built-In Functions Include:

- Adjustable Blower On/Off Delay
- Built-in Control Parameter Defaults
- Compressor Time-Off Delay
- DDC Compatible
- Dirty Filter Switch Input
- Discharge Air Temperature Control
- Display/Sensor Readout
- Economizer Control Options (See Economizer / Exhaust Air / Outdoor Air sections)
- Fresh Air Tempering
- Over 100 diagnostic and status messages in English
- Exhaust Fan Control Modes for fresh air damper position
- Permanent Diagnostic Code Storage
- Field Adjustable Control Parameters (Over 200 settings)
- Indoor Air Quality Input (Demand Control Ventilation)
- Low Ambient Controls for cooling operation down to 0°F

- Gas Valve Time Delay Between First and Second Stage
- Minimum Compressor Run Time
- Network Capable (Can be daisy chained to other units or controls)
- Night Setback Mode
- Return Air Temperature Limit Control
- Safety Switch Input allows Controller to respond to a external safety switch trip
- Service Relay Output
- Smoke Alarm Mode has four choices (unit off, positive pressure, negative pressure, purge)
- Up to 2 heat/2 cool (standard Prodigy unit controller thermostat input)
- Up to 3 cool with additional relay
- Up to 4 cool with room sensor or network operation
- "Strike Three" Protection
- Gas Reheat Control allows simultaneous heating and cooling operation for humidity control of process air applications such as supermarkets
- On Demand Dehumidification monitors and controls condenser hot gas reheat operation with dehumidification option
- Thermostat Bounce Delay
- Warm Up Mode Delay
- LED Indicators
- PC Interface connects the Intelli-Guide™ unit controller to a PC with the Unit Controller Software
- Room Sensor Operation controls temperature

**NOTE** - Intelli-Guide Control System features shown vary with the type of rooftop unit the control is installed in.

## CONTROL SYSTEM

### INTELLI-GUIDE™ CONTROL SYSTEM (continued)

#### Control Options

##### Factory or Field Installed

###### **Fresh Air Tempering**

- Used in applications with high outside air requirements
- Controller energizes the first stage heat as needed to maintain a minimum supply air temperature for comfort, regardless of the thermostat demand
- When ordered as a factory option, sensor ships with the unit for field installation

###### **Smoke Detector**

- Photoelectric type
- Installed in supply air section, return air section or both sections
- Available with power board and single sensor (supply or return) or power board and two sensors (supply and return)
- Power board located in unit control compartment

###### **Interoperability via BACnet® or LonTalk® Protocols**

- Communication compatible with third-party automation systems that support the BACnet Application Specific Controller device profile, LonMark® Space Comfort Controller functional profile, or LonMark Discharge Air Controller functional profile

##### Commercial Control Systems

- dehumidification option or Supermarket reheat field selectable option

## OPTIONS / ACCESSORIES

### ECONOMIZER

- Economizer operation is set and controlled by the Intelli-Guide™ unit controller
- Simple plug-in connections from economizer to unit controller for easy installation
- All rooftop units are equipped with factory installed CEC Title 24 approved sensors for outside, return and discharge air temperature monitoring

**NOTE** - Optional sensors may be used instead of unit sensors to determine whether outdoor air is suitable for free cooling. See Options/Accessories table.

##### Factory or Field Installed

#### **15 High Performance Economizer**

- Approved for California Title 24 building standards
- Low leakage dampers are Air Movement and Control Association International (AMCA) Class 1A Certified - Maximum 3 CFM per sq. ft. leakage at 1 in. w.g.
- ASHRAE 90.1-2010 compliant
- Outdoor Air Hood with moist elimination is included when economizer is factory installed and is furnished with economizer when ordered for field installation
- Gear-driven action
- High torque 24-volt fully-modulating spring return damper motor
- Return air and outdoor air dampers
- Plug-in connections to unit
- Stainless steel bearings
- Enhanced neoprene blade edge seals
- Flexible stainless steel jamb seals

**NOTE** - High Performance Economizers are not approved for use with enthalpy controls in Title 24 applications.

**NOTE** - The Free Cooling setpoint for Title 24 applications must be set based on the Climate Zone where the system is installed. See Section 140.4 "Prescriptive Requirements for Space Conditioning Systems" of the California Energy Commission's 2013 Building Energy Efficiency Standards.

**NOTE** - Refer to Installation Instructions for complete setup information.

## OPTIONS / ACCESSORIES

### **ECONOMIZER (continued)**

#### **Differential Sensible Control**

- Factory setting
- Uses outdoor air and return air sensors that are furnished with the unit
- The Intelli-Guide™ unit controller compares outdoor air temperature with return air
- When the outdoor air is below the configured setpoint and cooler than return air, the controller activates the economizer

**NOTE** - Differential Sensible Control can be configured in the field to provide Offset Differential Sensible Control or Single Sensible Control.

**NOTE** - In Offset Differential Sensible Control mode, the economizer is enabled if the temperature differential (offset) between outdoor air and return air reaches the configured setpoint. In Single Sensible Control mode, the economizer is enabled when outdoor air temperature falls below the configured setpoint.

#### **Global Control**

- The unit controller communicates with a DDC system with one global sensor (enthalpy or sensible)
- Determines whether outside air is suitable for free cooling on all units connected to the control system
- Sensor must be field provided

### **Factory or Field Installed**

#### **Single Enthalpy Temperature Control (Not for Title 24)**

- Outdoor air enthalpy sensor enables Economizer if the outdoor enthalpy is less than the setpoint of the control

#### **Differential Enthalpy Control (Not for Title 24)**

- Order two Single Enthalpy Controls
- One is field installed in the return air section
- One is installed in the outdoor air section
- Allows the economizer control to select between outdoor air or return air, whichever has lower enthalpy

### **Field Installed**

#### **Outdoor Air CFM Control**

- Maintains constant outdoor air volume levels on the supply air fan and varying unit airflows
- Velocity sensor located in the rooftop unit outdoor air section, the Intelli-Guide™ unit controller changes the economizer position to help minimize the effect of supply fan speed changes on outdoor air volume levels
- Setpoint for outdoor air volume is established by field testing

**NOTE** - Not available with Demand Control Ventilation (CO<sub>2</sub> Sensor) or Building Pressure Control.

#### **Building Pressure Control**

- Maintains constant building pressure level
- Includes a static pressure transducer and outdoor static pressure assembly
- Using differential pressure information between the outdoor air and the building air, the Intelli-Guide™ unit controller changes the economizer position to help maintain a constant building pressure

**NOTE** - Not available with Demand Control Ventilation (CO<sub>2</sub> Sensor) or Outdoor Air CFM Control.

### **EXHAUST**

#### **Factory or Field Installed**

#### **16 Downflow Barometric Relief Dampers**

- Allow relief of excess air
- Aluminum blade dampers prevent blow back and outdoor air infiltration during off cycle
- Exhaust hood is factory installed when dampers are factory installed with economizer
- Exhaust hood is furnished with dampers when ordered for field installation
- Bird screen furnished

#### **17 Power Exhaust Fans**

- Install internal to unit for downflow applications only with economizer option
- Provides exhaust air pressure relief
- Interlocked to run when supply air blower is operating
- Fans run when outdoor air dampers are 50% open (adjustable)
- Motor is overload protected
- Dual fans are 20 in. diameter
- Five blades
- Two 1/3 hp motors

**NOTE** - Requires Economizer with furnished Outdoor Air Hood and Downflow Barometric Relief Dampers.

**NOTE** - Single Zone VAV Supply Fan and VAV (Variable Air Volume) models are equipped with 2-stage power exhaust fans. Power exhaust operates in 1st stage (one fan) up to 70% of supply air blower speed. Both exhaust fans operate in 2nd stage when supply air blower speed is above 70% (adjustable) of full speed.

## OPTIONS / ACCESSORIES

### **Field Installed**

#### **Horizontal Barometric Relief Dampers**

- For use when unit is configured for horizontal applications requiring an economizer
- Allows relief of excess air
- Aluminum blade dampers prevent blow back and outdoor air infiltration during off cycle
- Field installed in return air duct
- Bird screen and hood furnished

### **OUTDOOR AIR**

#### **Factory or Field Installed**

##### **Outdoor Air Damper**

- Downflow or Horizontal
- Linked mechanical dampers
- 0 to 25% (fixed) outdoor air adjustable
- Installs in unit
- Includes outdoor air hood
- Automatic model features fully modulating spring return damper motor with plug-in connection
- Manual model features parallel blade, gear-driven dampers with adjustable fixed position

### **ROOF CURBS**

- Nailer strip furnished (downflow only)
- Mates to unit
- US National Roofing Contractors Approved
- Shipped knocked down

### **Downflow**

#### **Hybrid Roof Curbs**

- Interlocking tabs fasten corners together
- No tools required
- Can also be fastened together with furnished hardware
- Available in 8, 14, 18, and 24 inch heights

#### **Adjustable Pitch Curb**

- Fully adjustable pitch curbs (3/4 in. per foot in any direction) provide a level platform for rooftop units allowing flexible installations on roofs with uneven or sloped angles
- Uses interlocking tabs to fasten corners together. No tools required
- Hardware is furnished to connect upper curb with lower curb
- Available in 14 inch height

### **Horizontal**

- Meet National Roofing Code requirements
- Converts unit from downflow to horizontal (side) air flow
- Return air is on unit, supply air is on curb
- See dimension drawings
- Available in 26, 30, 37 and 41 inch heights

**NOTE** - Requires Horizontal Return Air Panel Kit.

### **ROOF CURBS (continued)**

**NOTE** - Optional Insulation Kit is available to help prevent sweating.

### **Adaptor Curbs (not shown)**

- Curbs are regionally sourced
- Dimensions vary based upon the source

**NOTE** - Contact your local sales representative for a detailed cut sheet with applicable dimensions.

### **CEILING DIFFUSERS**

#### **Field Installed**

##### **Ceiling Diffusers**

##### **(Flush or Step-Down)**

- White powder coat finish on diffuser face and grilles
- Insulated UL listed duct liner
- Diffuser box has collars for duct connection
- Step-down diffusers have double deflection blades
- Flush diffusers have fixed blades
- Provisions for suspending
- Internally sealed to prevent recirculation
- Removable return air grille
- Adapts to T-bar ceiling grids or plaster ceilings

##### **Transitions (Supply and Return)**

- Used with diffusers
- Installs in roof curb
- Galvanized steel construction
- Flanges furnished for duct connection to diffusers
- Fully insulated

## DEHUMIDIFICATION SYSTEM OPTION

### OVERVIEW

**NOTE** - Dehumidification System Only Available For CAV And Single Zone VAV Supply Fan Models.

- Factory installed option designed to control humidity
- Provides dehumidification on demand using ASHRAE 90.1 recommended method for comfort conditioning humidity control
- Unit comes equipped with one row reheat coil, solenoid valve and humidity controller
- A thermostat with a dehumidification output, a dehumidistat, or a DDC controller with an isolated output is required to control humidity and must be located in the occupied space

**NOTE** - Remote Mounted Humidity Sensor Kit is required for field installation. The humidity sensor provides input to the Unit Controller which is used to control activation of the dehumidification operation.

### BENEFITS

- Improves indoor air quality
- Helps prevent damage due to high humidity levels
- Improves comfort levels by reducing space humidity levels

### OPERATION

#### No Dehumidification Demand

- The unit will operate conventionally whenever there is a demand for cooling or heating and no dehumidification demand
- Free cooling is only permitted when there is no demand for dehumidification

#### Dehumidification Demand Only

- The Unit Controller is factory set at 60% relative humidity setpoint and can be adjusted at the Unit Controller or with optional Unit Controller Software

**NOTE** - Controls are not furnished and must be ordered extra.

- Reheat operation will initiate on a dehumidification demand and does not require a cooling demand
- The unit will operate in the dehumidification mode until the relative humidity of the conditioned space is below the setpoint
- The reheat coil is sized to provide 68°F to 75°F supply air during reheat operation
- This reduces sensible cooling capacity and extends compressor run time to control humidity when the cooling load is low
- A solenoid valve diverts hot gas from the compressor to the reheat coil
- The cooled and dehumidified air from the evaporator is reheated as it passes through the reheat coil
- The de-superheated and partially condensed refrigerant continues to the outdoor condenser coil where condensing is completed
- Unit will continue to operate in this mode until the dehumidification demand is satisfied

**NOTE** - See Sequence of Operation for additional information.

#### Dehumidification and Cooling Demand (Thermostat/ Room Sensor Application)

- If both a dehumidification and a full cooling load demand occur, the system will operate in cooling until the cooling demand is satisfied
- Then the system will energize the dehumidification mode.

#### Options/Accessories

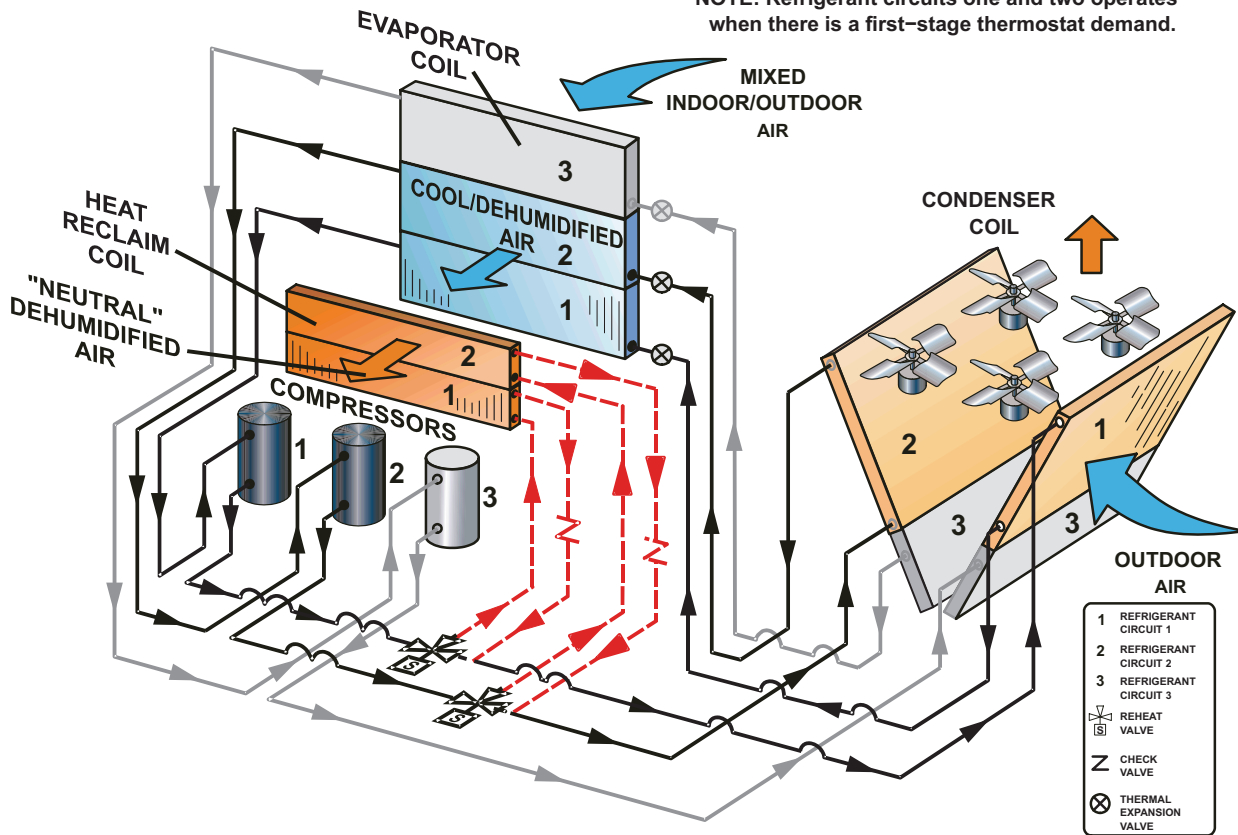
##### Humidity Sensor Kit

- Remote Mounted Humidity sensor required with factory installed Dehumidification Option or Supermarket reheat field selectable option

# DEHUMIDIFICATION SYSTEM OPTION

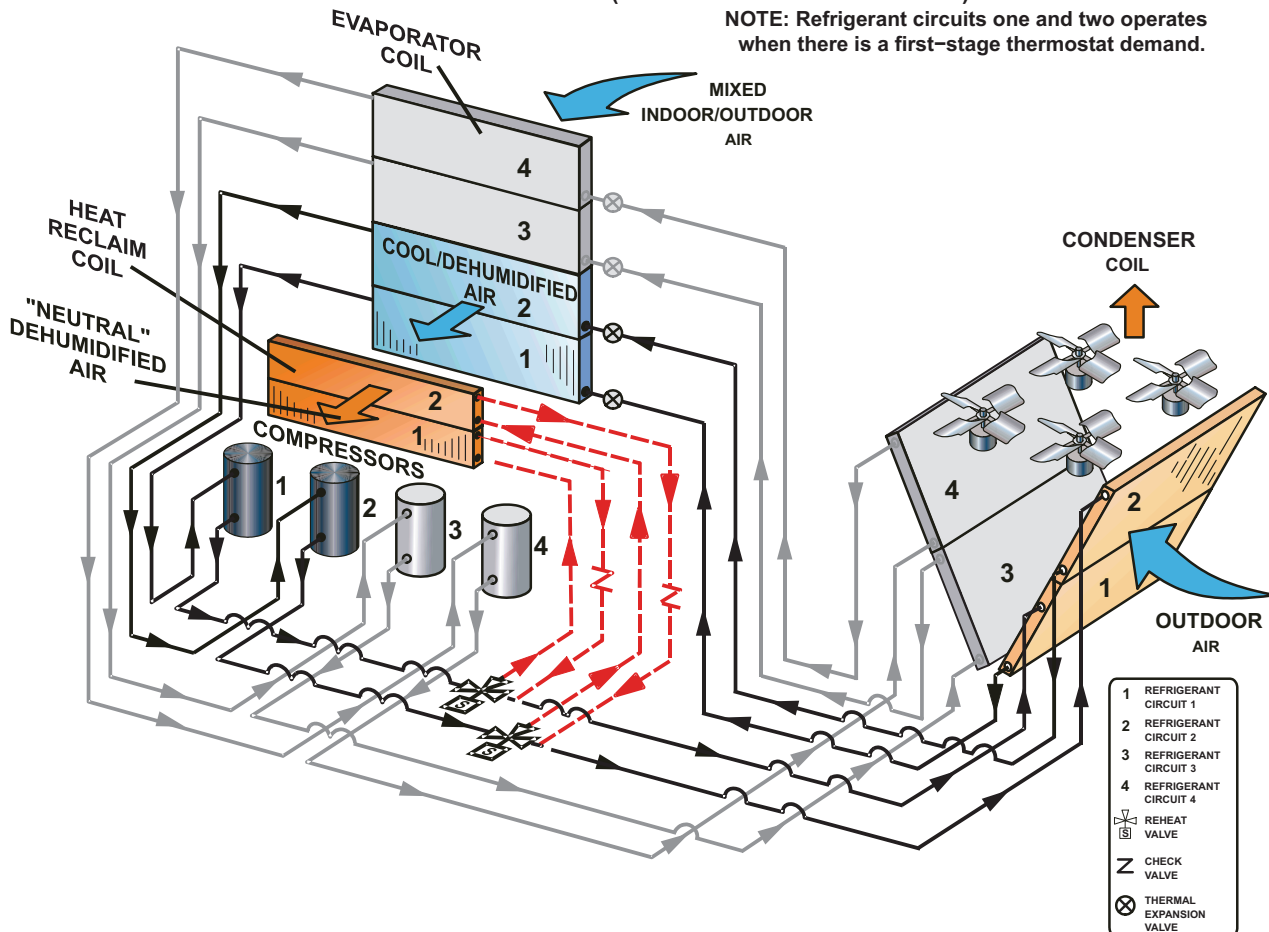
## REFRIGERANT SCHEMATIC (156H, 180H and 210H MODELS ONLY)

NOTE: Refrigerant circuits one and two operates when there is a first-stage thermostat demand.



## REFRIGERANT SCHEMATIC (240H and 300S MODELS ONLY)

NOTE: Refrigerant circuits one and two operates when there is a first-stage thermostat demand.





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**Objective:** Outline the unit functions as a result of room thermostat or zone sensor demands.

**Given:** When economizer is present, it will function as an integral part of the unit cooling system. When not present, unit will function as if economizer is present but outdoor ambient is high and sensed as not suitable.

### **UNIT OPERATION WITH 2-STAGE THERMOSTAT (2 COOLING STAGES, Y1, Y2) - 3 AND 4 COMPRESSORS MODELS**

#### **SUPPLY AIR BLOWER SPEED**

- Unit has the following supply air blower speed settings:
- Ventilation speed
- Cooling speed - Low
- Cooling speed - High
- Heating speed
- Smoke speed (Used only in smoke removal option - not discussed)

#### **<sup>1</sup> Unit Features An Economizer And Outdoor Air Is Suitable**

##### **Y1 Demand:**

All compressors are off, supply air blower is on low cooling speed to minimize blower power consumption, economizer modulates (minimum to maximum open position) to maintain 55°F supply air temperature (default unit controller setting).

##### **Y2 Demand:**

All compressors are off, supply air blower is on high cooling speed providing higher cooling capacity, and economizer modulates to maintain 55°F supply air temperature.

If economizer stays at maximum open for 3 minutes, 1st stage compressors (compressor 1 and 2) are energized while supply air blower stays on high cooling speed providing maximum cooling capacity.

<sup>1</sup> Outdoor air suitability is determined by the energy state of outdoor ambient (enthalpy or sensible) and its ability to achieve the desired free cooling effects. Outdoor air suitability can also be determined by a third party controller and provided to the RTU via a network connection.

#### **Unit Does Not Feature An Economizer Or Outdoor Air Is Not Suitable**

##### **Y1 Demand:**

1st stage compressors operate and supply air blower operates at low cooling speed.

##### **Y2 Demand:**

All compressors operate and supply air blower operates at high cooling speed.

#### **Dehumidification Mode**

If a unit with Dehumidification Option receives a call for dehumidification, economizer free cooling is locked out.

##### **Call For Dehumidification, No Y1, Y2 Demand:**

1st stage compressors (1 & 2) operate, supply air blower operates at high cooling speed, and the reheat valves are energized.

##### **Y1 Demand With A Call For Dehumidification:**

All compressors operate, supply air blower operates at high cooling speed and the reheat valves are energized.

##### **Y2 Demand With A Call For Dehumidification:**

All compressors operate, supply air blower operates at high cooling speed, and the reheat valves are de-energized.

**UNIT WITH 3-STAGE THERMOSTAT (3 COOLING STAGES, Y1, Y2, Y3) - 3 AND 4 COMPRESSORS MODELS, OR ZONE SENSOR (4 COOLING STAGES, Y1, Y2, Y3, Y4) - 3 COMPRESSORS MODELS****SUPPLY AIR BLOWER SPEED**

Unit has following supply air blower speed setting:

- Ventilation speed
- Cooling speed - Low
- Cooling speed - Medium
- Cooling speed - High
- Heating speed
- Smoke speed (Used only in smoke removal option - not discussed)

**<sup>1</sup> Unit Features An Economizer And Outdoor Air Is Suitable****3 Compressor Models****Y1 Demand:**

All compressors are off, supply air blower is on low cooling speed to minimize blower power consumption, economizer modulates (minimum to maximum open position) to maintain 55°F supply air temperature (default unit controller setting).

**Y2 Demand:**

All compressors are off, supply air blower is on high cooling speed providing higher cooling capacity, economizer modulates (minimum to maximum open position) to maintain 55°F supply air temperature (default unit controller setting).

If economizer stays at maximum open for 3 minutes then compressor 1 is energized while supply air blower stays on high cooling speed. After compressor is energized the economizer stays at maximum open.

**Y3 Demand:**

Compressors 1 and 2 are energized while supply air blower stays on high cooling speed. After compressors are energized the economizer stays at maximum.

**Y4 (Zone Sensor Only) Demand:**

All compressors are energized and supply air blower stays on high cooling speed.

**4 Compressor Models****Y1 Demand:**

All compressors are off, supply air blower is on low cooling speed to minimize blower power consumption, economizer modulates (minimum to maximum open position) to maintain 55°F supply air temperature (default unit controller setting).

**Y2 Demand:**

All compressors are off, supply air blower is on high cooling speed providing higher cooling capacity, economizer modulates (minimum to maximum open position) to maintain 55°F supply air temperature (default unit controller setting).

If economizer stays at maximum open for 3 minutes then compressors 1 and 2 are energized while supply air blower stays on high cooling speed. After compressors are energized the economizer stays at maximum open.

**Y3 Demand:**

Compressors 1, 2 and 3 are energized and supply air blower stays on high cooling speed.

<sup>1</sup> Outdoor air suitability is determined by the energy state of outdoor ambient (enthalpy or sensible) and its ability to achieve the desired free cooling effects. Outdoor air suitability can also be determined by a third party controller and provided to the RTU via a network connection.

**UNIT WITH 3-STAGE THERMOSTAT (3 COOLING STAGES, Y1, Y2, Y3) - 3 AND 4 COMPRESSORS MODELS, OR ZONE SENSOR (4 COOLING STAGES, Y1, Y2, Y3, Y4) - 3 COMPRESSORS MODELS (CONTINUED)**

**Unit Does Not Feature An Economizer Or Outdoor Air Is Not Suitable**

**3 Compressor Units****Y1 Demand:**

Compressor 1 operates and supply air blower operates at low cooling speed.

**Y2 Demand:**

Compressors 1 and 2 operate and supply air blower operates at medium cooling speed.

**Y3 or Y4 (Zone Sensor Only) Demand:**

All compressors operate and supply air blower operates at high cooling speed .

**4 Compressor Units****Y1 Demand:**

Compressors 1 and 2 operate and supply air blower operates at low cooling speed.

**Y2 demand:**

Compressors 1, 2, and 3 operate and supply air blower operates at medium cooling speed.

**Y3 demand:**

All compressors operate and supply air blower operates at high cooling speed.

**Dehumidification Mode**

If a unit with Dehumidification Option receives a call for dehumidification, economizer free cooling is locked out.

**Call For Dehumidification, No Y1, Y2, Y3 Demand:**

Compressor 1 and 2 operate, supply air blower operates at high cooling speed, and both reheat valves are energized.

**Y1 Demand With A Call For Dehumidification:**

All compressors operate, supply air blower operates at high cooling speed and both reheat valves are energized.

**Y2 Demand With A Call For Dehumidification:**

All compressors operate, supply air blower operates at high cooling speed, and the reheat valve of refrigeration circuit 1 is energized while the reheat valve of refrigeration circuit 2 is de-energized.

**Y3 or Y4 (Zone Sensor Only) Demand:**

All compressors operate, supply air blower operates at high cooling speed, and both reheat valves are de-energized.

**UNIT WITH ZONE SENSOR (4 COOLING STAGES, Y1, Y2, Y3, Y4) – 4 COMPRESSORS MODELS****SUPPLY AIR BLOWER SPEED**

- Unit has following supply air blower speed setting:
- Ventilation speed
- Cooling speed - Low
- Cooling speed - Medium-Low
- Cooling speed - Medium-High
- Cooling speed - High
- Heating speed
- Smoke speed (Used only in smoke removal option - not discussed)

**<sup>1</sup> Unit Features An Economizer And Outdoor Air Is Suitable****Y1 Demand:**

All compressors are off, supply air blower is on low cooling speed to minimize blower power consumption, economizer modulates (minimum to maximum open position) to maintain 55°F supply air temperature (default unit controller setting).

**Y2 Demand:**

All compressors are off, supply air blower is on high cooling speed providing higher cooling capacity, and economizer modulates to maintain 55°F supply air temperature.

If economizer stays at maximum open for 3 minutes, compressor 1 is energized while supply air blower stays on high cooling speed. After compressor 1 is energized the economizer stays at maximum open.

**Y3 Demand:**

Compressor 1 and 2 are energized while supply air blower is on high cooling speed providing even higher cooling capacity.

**Y4 Demand:**

All compressors are energized while supply air blower is on high cooling speed providing maximum cooling capacity.

<sup>1</sup> Outdoor air suitability is determined by the energy state of outdoor ambient (enthalpy or sensible) and its ability to achieve the desired free cooling effects. Outdoor air suitability can also be determined by a third party controller and provided to the RTU via a network connection.

**Unit Does Not Feature An Economizer Or Outdoor Air Is Not Suitable****Y1 demand:**

Compressor 1 operates and supply air blower operates at low cooling speed.

**Y2 demand:**

Compressors 1 and 2 operate and supply air blower operates at medium-low cooling speed.

**Y3 demand:**

Compressors 1, 2, and 3 operate and supply air blower operates at medium-high cooling speed.

**Y4 demand:**

All compressors operate and supply air blower operates at high cooling speed.



**UNIT WITH ZONE SENSOR (4 COOLING STAGES, Y1, Y2, Y3, Y4) – 4 COMPRESSORS MODELS (CONTINUED)****Dehumidification Mode**

If a unit with Dehumidification Option receives a call for dehumidification, economizer free cooling is locked out.

**Call For Dehumidification, No Y1, Y2, Y3, Y4 Demand:**

Compressors 1 and 2 operate, supply air blower operates at high cooling speed, and both reheat valves are energized.

**Y1 Demand With A Call For Dehumidification:**

Compressors 1, 2, and 3 operate, supply air blower operates at high cooling speed and both reheat valves are energized.

**Y2 Demand With A Call For Dehumidification:**

All compressors operate, supply air blower operates at high cooling speed, and both reheat valves are energized.

**Y3 Demand With A Call For Dehumidification:**

All compressors operate, supply air blower operates at high cooling speed, and the reheat valve of compressor 1 is energized while the reheat valve of compressor 2 is de-energized.

**Y4 Demand With A Call For Dehumidification:**

All compressors operate, supply air blower operates at high cooling speed, and the reheat valves are de-energized.

**Heating Mode**

*NOTE - HEATING MODE IS THE SAME FOR ALL CONTROL OPTIONS.*

**W1 Demand:**

Gas valves are open (stage 1 on units with 2-stage gas valves) and supply air blower operates at heating speed.

**W2 Demand:**

Gas valves are open (stage 2 on units with 2-stage gas valves) and supply air blower operates at heating speed.

**Modulating Outdoor Air Damper**

The minimum damper position for “occupied low blower” and “occupied high blower” is adjusted during unit setup to provide minimum fresh air requirements per ASHRAE 62.1 at the corresponding supply air blower speeds.

- When supply air blower is off or the unit is in unoccupied mode, the outdoor air damper is closed.
- When unit is in occupied mode and supply air blower is operating at a speed below the “midpoint” blower speed, the outdoor air damper is at minimum “low blower” position.
- When unit is in occupied mode and supply air blower is operating at a speed equal to or above the “midpoint” blower speed, the outdoor air damper is at minimum “high blower” position.

*NOTE - The “midpoint” blower speed is an average of the minimum and maximum blower speed (minimum speed + maximum speed divided by 2).*

**Power Exhaust Operation**

*NOTE - POWER EXHAUST OPERATION IS THE SAME FOR ALL CONTROL OPTIONS*

Single Zone VAV models are equipped with 2-stage power exhaust fans. Power exhaust fans operate when economizer outdoor air dampers are 50% open (adjustable). Power exhaust operates in 1st stage (one fan) up to 70% of supply air blower speed. 2nd stage power exhaust fans (both fans) operate when supply air blower speed is above 70% (adjustable) of full speed.

**VAV UNITS IN ZONING APPLICATIONS OPERATING WITH DISCHARGE AIR CONTROL - 156/180 MODELS ONLY (4 HEAT / 3 COOL)****SUPPLY AIR BLOWER SPEED**

Unit has the following supply air blower speed settings:

- Ventilation Speed
- Cooling Speed - Fully modular based on supply duct static pressure
- Heating Speed
- Smoke Speed (Used only in smoke removal option - not discussed)

**Cooling Mode (3 Cool)**

- Discharge air temperature (DAT) can be used to control unit staging.
- DAT default setpoint = 55°F. Unit will stage compressors as required to maintain the setpoint when provided with Y1 thermostat demand.
- Increasing compressor stages provides more cooling capacity while decreasing compressor stages provides less cooling capacity.

**<sup>1</sup> Unit Features An Economizer And Outdoor Air Is Suitable****Cooling Stage 1**

All compressors are off, supply air blower operates to maintain duct static pressure, economizer modulates (minimum to maximum open position) to maintain 55°F supply air temperature (default unit controller setting).

**Cooling Stage 2**

All compressors are off, supply air blower operates to maintain duct static pressure, and economizer modulates to maintain 55°F supply air temperature. If economizer stays at maximum open for 3 minutes, compressor 1 is energized while supply air blower operates to maintain duct static pressure. After compressor 1 is energized, the economizer stays at maximum open.

**Cooling Stage 3**

Compressor 1 and 2 are energized while supply air blower operates to maintain duct static pressure.

<sup>1</sup> Outdoor air suitability is determined by the energy state of outdoor ambient (enthalpy or sensible) and its ability to achieve the desired free cooling effects. Outdoor air suitability can also be determined by a third party controller and provided to the RTU via a network connection.

**Unit Does Not Feature An Economizer Or Outdoor Air Is Not Suitable****Cooling Stage 1**

Compressor 1 operates and supply air blower operates to maintain duct static pressure.

**Cooling Stage 2**

Compressors 1 and 2 operate and supply air blower operates to maintain duct static pressure.

**Cooling Stage 3**

Compressors 1, 2, and 3 operate and supply air blower operates to maintain duct static pressure.

**HEATING MODE (4 Heat)**

- Room sensors (when connected to S-Bus) or Discharge air temperature (DAT) can be used to control up to four stages of electric heat.
- DAT default setpoint = 110°F. Unit will stage heating as required to maintain the setpoint when provided with W1 demand.
- Room sensor occupied setpoint default = 70°F. Unit will stage heating as required to maintain the setpoint.
- Increasing heat stages provides more heating capacity while decreasing heat stages provides less heating capacity.
- Blower set to Heating Speed for all stages.

**VAV UNITS IN ZONING APPLICATIONS OPERATING WITH DISCHARGE AIR CONTROL - 240 MODELS ONLY (4 HEAT / 4 COOL)****SUPPLY AIR BLOWER SPEED**

Unit has the following supply air blower speed settings:

- Ventilation Speed
- Cooling Speed - Fully modular based on supply duct static pressure
- Heating Speed
- Smoke Speed (Used only in smoke removal option - not discussed)

**Cooling Mode (4 Cool)**

- Discharge air temperature (DAT) can be used to control unit staging.
- DAT default setpoint = 55°F. Unit will stage compressors as required to maintain the setpoint when provided with Y1 thermostat demand.
- Increasing compressor stages provides more cooling capacity while decreasing compressor stages provides less cooling capacity.

**<sup>1</sup> Unit Features An Economizer And Outdoor Air Is Suitable****Cooling Stage 1**

All compressors are off, supply air blower operates to maintain duct static pressure, economizer modulates (minimum to maximum open position) to maintain 55°F supply air temperature (default unit controller setting).

**Cooling Stage 2**

All compressors are off, supply air blower operates to maintain duct static pressure, and economizer modulates to maintain 55°F supply air temperature. If economizer stays at maximum open for 3 minutes, compressor 1 is energized while supply air blower operates to maintain duct static pressure. After compressor 1 is energized, the economizer stays at maximum open.

**Cooling Stage 3**

Compressor 1 and 2 are energized while supply air blower operates to maintain duct static pressure.

**Cooling Stage 4**

All compressors are energized while supply air blower operates to maintain duct static pressure.

<sup>1</sup> Outdoor air suitability is determined by the energy state of outdoor ambient (enthalpy or sensible) and its ability to achieve the desired free cooling effects. Outdoor air suitability can also be determined by a third party controller and provided to the RTU via a network connection.

**Unit Does Not Feature An Economizer Or Outdoor Air Is Not Suitable****Cooling Stage 1**

Compressor 1 operates and supply air blower operates to maintain duct static pressure.

**Cooling Stage 2**

Compressors 1 and 2 operate and supply air blower operates to maintain duct static pressure.

**Cooling Stage 3**

Compressors 1, 2, and 3 operate and supply air blower operates to maintain duct static pressure.

**Cooling Stage 4**

All compressors operate and supply air blower operates to maintain duct static pressure.

**VAV UNITS IN ZONING APPLICATIONS OPERATING WITH DISCHARGE AIR CONTROL (4 HEAT / 4 COOL)**  
**(CONTINUED)****HEATING MODE (4 Heat)**

**Discharge air temperature (DAT) can be used to control unit staging.**

- DAT default setpoint = 110°F. Unit will stage heating as required to maintain the setpoint when provided with W1 demand.
- Increasing heat stages provides more heating capacity while decreasing heat stages provides less heating capacity.
- Blower set to Heating Speed for all stages.
- Heating Stage 1 -The first stage of mechanical heat is activated; gas valve one is in low fire mode. This is ~33% of heating capacity.
- Heating Stage 2 - The first and second stages of mechanical heat are activated; gas valves one and two are in low fire mode. This is ~66% of heating capacity.

**Heating Stage 3**

- Gas valve one is in high fire mode; gas valve two is in low fire mode. This is ~83% of heating capacity.

**Heating Stage 4**

- Gas valves one and two are in high fire mode. This is 100% of heating capacity.

**Modulating Outdoor Air Damper**

The minimum damper position for “occupied low blower” and “occupied high blower” is adjusted during unit setup to provide minimum fresh air requirements per ASHRAE 62.1 at the corresponding supply air blower speeds. When supply air blower is off or the unit is in unoccupied mode, the outdoor air damper is closed.

When unit is in occupied mode and supply air blower is operating at a speed below the “midpoint” blower speed, the outdoor air damper is at minimum “low blower” position.

When unit is in occupied mode and supply air blower is operating at a speed equal to or above the “midpoint” blower speed, the outdoor air damper is at minimum “high blower” position.

*NOTE - The “midpoint” blower speed is an average of the minimum and maximum blower speed ((minimum speed + maximum speed) divided by 2).*

## OPTIONS / ACCESSORIES

| Item Description                                                      | Model Number                                                                    | Catalog Number | Unit Model No |     |     |     |     |   |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------|---------------|-----|-----|-----|-----|---|
|                                                                       |                                                                                 |                | 156           | 180 | 210 | 240 | 300 |   |
| COOLING SYSTEM                                                        |                                                                                 |                |               |     |     |     |     |   |
| Condensate Drain Trap                                                 | PVC - C1TRAP20AD2                                                               | 76W26          | OX            | OX  | OX  | OX  | OX  |   |
|                                                                       | Copper - C1TRAP10AD2                                                            | 76W27          | OX            | OX  | OX  | OX  | OX  |   |
| Conventional Fin/Tube Condenser Coil (replaces Eco-Last™ Coil System) |                                                                                 | Factory        | O             | O   | O   | O   | O   |   |
| Corrosion Protection                                                  |                                                                                 | Factory        | O             | O   | O   | O   | O   |   |
| Drain Pan Overflow Switch                                             | E1SNSR71AD1                                                                     | 68W88          | OX            | OX  | OX  | OX  | OX  |   |
| Efficiency                                                            | High                                                                            |                | O             | O   | O   | O   |     |   |
|                                                                       | Standard                                                                        |                |               |     |     |     | O   |   |
| Refrigerant Type                                                      |                                                                                 | R-410A         | O             | O   | O   | O   | O   |   |
| Service valves (not for Eco-Last™ Coil System or Dehumidification)    |                                                                                 | Factory        | O             | O   | O   | O   | O   |   |
| HEATING SYSTEM                                                        |                                                                                 |                |               |     |     |     |     |   |
| Bottom Gas Piping Kit                                                 | C1GPKT01C-1                                                                     | 85M31          | OX            | OX  | OX  | OX  | OX  |   |
| Combustion Air Intake Extensions (order two)                          |                                                                                 | LTACAIK10/15   | 89L97         | X   | X   | X   | X   | X |
| Gas Heat Input                                                        | Low - 169,000 Btuh                                                              | Factory        | O             | O   | O   |     |     |   |
|                                                                       | Standard - 260,000 Btuh                                                         | Factory        | O             | O   | O   | O   | O   |   |
|                                                                       | Medium - 360,000 Btuh                                                           | Factory        | O             | O   | O   | O   | O   |   |
|                                                                       | High - 480,000 Btuh                                                             | Factory        |               | O   | O   | O   | O   |   |
| Low Temperature Vestibule Heater                                      | 208/230V-3ph - C1LTVH10C-2Y                                                     | 13X66          | OX            | OX  | OX  | OX  | OX  |   |
|                                                                       | 460V-3ph - C1LTVH10C-2G                                                         | 13X67          | OX            | OX  | OX  | OX  | OX  |   |
|                                                                       | 575V-3ph - C1LTVH10C-2J                                                         | 13X68          | OX            | OX  | OX  | OX  | OX  |   |
| LPG/Propane Conversion Kits<br>(Order 2 kits)                         | Low Heat - C1PROP25C11                                                          | 14N28          | X             | X   | X   |     |     |   |
|                                                                       | Standard Heat - C1PROP25C11                                                     | 14N28          | X             | X   | X   | X   | X   |   |
|                                                                       | Medium Heat - C1PROP26C11                                                       | 14N29          | X             | X   | X   | X   | X   |   |
|                                                                       | High Heat - C1PROP27C11                                                         | 14N30          |               | X   | X   | X   | X   |   |
| Stainless Steel Heat Exchanger                                        |                                                                                 | Factory        | O             | O   | O   | O   | O   |   |
| Vertical Vent Extension Kit (Order two kits)                          |                                                                                 | C1EXTN2021     | 42W16         | X   | X   | X   | X   | X |
| BLOWER - SUPPLY AIR                                                   |                                                                                 |                |               |     |     |     |     |   |
| Blower Option                                                         | CAV (Constant Air Volume)                                                       | Factory        | O             | O   | O   | O   | O   |   |
|                                                                       | VAV (Variable Air Volume) supply air blower option (Without VFD Bypass Control) | Factory        | O             | O   |     | O   |     |   |
|                                                                       | Single Zone VAV supply air blower option (With VFD Bypass Control)              | Factory        | O             | O   | O   | O   | O   |   |
|                                                                       | Single Zone VAV supply air blower option (Without VFD Bypass Control)           | Factory        | O             | O   | O   | O   | O   |   |
| Motors - CAV (Constant Air Volume)                                    | Belt Drive (standard efficiency) - 2 hp                                         | Factory        | O             |     |     |     |     |   |
|                                                                       | Belt Drive (standard or high efficiency) - 3 hp                                 | Factory        | O             | O   | O   |     |     |   |
|                                                                       | Belt Drive (standard efficiency) - 5 hp                                         | Factory        | O             | O   | O   | O   | O   |   |
|                                                                       | Belt Drive (standard efficiency) - 7.5 hp                                       | Factory        |               | O   | O   | O   | O   |   |
|                                                                       | Belt Drive (standard efficiency) - 10 hp                                        | Factory        |               |     |     | O   | O   |   |
| Motors - VAV (Variable Air Volume)                                    | Belt Drive (standard or high efficiency) - 2 hp                                 | Factory        | O             |     |     |     |     |   |
|                                                                       | Belt Drive (standard or high efficiency) - 3 hp                                 | Factory        | O             | O   |     |     |     |   |
|                                                                       | Belt Drive (standard efficiency) - 5 hp                                         | Factory        | O             | O   |     | O   |     |   |
|                                                                       | Belt Drive (standard efficiency) - 7.5 hp                                       | Factory        |               | O   |     | O   |     |   |
|                                                                       | Belt Drive (standard efficiency) - 10 hp                                        | Factory        |               |     |     | O   |     |   |
| Motors - Single Zone<br>VAV                                           | Belt Drive (standard efficiency) - 2 hp                                         | Factory        | O             |     |     |     |     |   |
|                                                                       | Belt Drive (standard efficiency) - 3 hp                                         | Factory        | O             | O   | O   |     |     |   |
|                                                                       | Belt Drive (standard efficiency) - 5 hp                                         | Factory        | O             | O   | O   | O   | O   |   |
|                                                                       | Belt Drive (standard efficiency) - 7.5 hp                                       | Factory        |               | O   | O   | O   | O   |   |
|                                                                       | Belt Drive (standard efficiency) - 10 hp                                        | Factory        |               |     |     | O   | O   |   |
| Drive Kits                                                            | Kit #1 535-725 rpm                                                              | Factory        | O             | O   | O   |     |     |   |
| See Blower Data Tables for usage and<br>selection                     | Kit #2 710-965 rpm                                                              | Factory        | O             | O   | O   |     |     |   |
|                                                                       | Kit #3 685-856 rpm                                                              | Factory        | O             | O   | O   | O   | O   |   |
|                                                                       | Kit #4 850-1045 rpm                                                             | Factory        | O             | O   | O   | O   | O   |   |
|                                                                       | Kit #5 945-1185 rpm                                                             | Factory        | O             | O   | O   | O   | O   |   |
|                                                                       | Kit #6 850-1045 rpm                                                             | Factory        |               | O   | O   | O   | O   |   |
|                                                                       | Kit #7 945-1185 rpm                                                             | Factory        |               | O   | O   | O   | O   |   |
|                                                                       | Kit #8 1045-1285 rpm                                                            | Factory        |               | O   | O   | O   | O   |   |
|                                                                       | Kit #10 1045-1285 rpm                                                           | Factory        |               |     |     | O   | O   |   |
|                                                                       | Kit #11 1135-1365 rpm                                                           | Factory        |               |     |     | O   | O   |   |
|                                                                       | Blower Belt Auto-Tensioner                                                      | Factory        | O             | O   | O   | O   | O   |   |

NOTE - Catalog and model numbers shown are for ordering field installed accessories.

OX - Configure To Order (Factory Installed) or Field Installed

O = Configure To Order (Factory Installed)

X = Field Installed

## OPTIONS / ACCESSORIES

| Item Description                                                                               |                                                                     |  | Model Number       | Catalog Number | Unit Model No |     |     |     |     |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--|--------------------|----------------|---------------|-----|-----|-----|-----|
|                                                                                                |                                                                     |  |                    |                | 156           | 180 | 210 | 240 | 300 |
| CONTROLS                                                                                       |                                                                     |  |                    |                |               |     |     |     |     |
| Blower Proving Switch                                                                          |                                                                     |  | C1SNSR35FF1        | 53W65          | OX            | OX  | OX  | OX  | OX  |
| Commercial Controls                                                                            | Intelli-Guide™ Control System - BACnet® Module - C0CTRL60AE1L       |  |                    | 59W51          | OX            | OX  | OX  | OX  | OX  |
|                                                                                                | Intelli-Guide™ Control System - LonTalk® Module - C0CTRL65FF1       |  |                    | 54W27          | OX            | OX  | OX  | OX  | OX  |
|                                                                                                | Novar® LSE                                                          |  |                    | Factory        | O             | O   | O   | O   | O   |
|                                                                                                |                                                                     |  |                    |                |               | X   |     |     |     |
| Dirty Filter Switch                                                                            |                                                                     |  | E1SNSR55C-1        | 53W68          | OX            | OX  | OX  | OX  | OX  |
| Fresh Air Tempering                                                                            |                                                                     |  | C1SNSR75AD1        | 58W63          | OX            | OX  | OX  | OX  | OX  |
| General Purpose Control Kit                                                                    |                                                                     |  | E1GPBK30C1         | 13J78          | X             | X   | X   | X   | X   |
| Smoke Detector - Supply or Return (Power board and one sensor)                                 |                                                                     |  | C1SNSR44C-1        | 83W40          | OX            | OX  | OX  | OX  | OX  |
| Smoke Detector - Supply and Return (Power board and two sensors)                               |                                                                     |  | C1SNSR43C-1        | 83W41          | OX            | OX  | OX  | OX  | OX  |
| INDOOR AIR QUALITY                                                                             |                                                                     |  |                    |                |               |     |     |     |     |
| Air Filters                                                                                    |                                                                     |  |                    |                |               |     |     |     |     |
| High Efficiency Air Filters<br>24 x 24 x 2 (Order 6 per unit)                                  | MERV 8 - C1FLTR15C-1-                                               |  | 54W67              | OX             | OX            | OX  | OX  | OX  |     |
|                                                                                                | MERV 13 - C1FLTR40C-1-                                              |  | 52W40              | OX             | OX            | OX  | OX  | OX  |     |
| Replacement Media Filter With Metal Mesh Frame<br>(includes non-pleated filter media)          |                                                                     |  | C1FLTR30C-1-       | 44N61          | OX            | OX  | OX  | OX  | OX  |
| Indoor Air Quality (CO2) Sensors                                                               |                                                                     |  |                    |                |               |     |     |     |     |
| Sensor - Wall-mount, off-white plastic cover with LCD display                                  |                                                                     |  | C0SNSR50AE1L       | 77N39          | X             | X   | X   | X   | X   |
| Sensor - Wall-mount, off-white plastic cover, no display                                       |                                                                     |  | C0SNSR52AE1L       | 87N53          | X             | X   | X   | X   | X   |
| Sensor - Black plastic case with LCD display, rated for plenum mounting                        |                                                                     |  | C0SNSR51AE1L       | 87N52          | X             | X   | X   | X   | X   |
| Sensor - Wall-mount, black plastic case, no display, rated for plenum mounting                 |                                                                     |  | C0MISC19AE1        | 87N54          | X             | X   | X   | X   | X   |
| CO2 Sensor Duct Mounting Kit - for downflow applications                                       |                                                                     |  | C0MISC19AE1-       | 85L43          | X             | X   | X   | X   | X   |
| Aspiration Box - for duct mounting non-plenum rated CO2 sensors<br>(87N53 or 77N39)            |                                                                     |  | C0MISC16AE1-       | 90N43          | X             | X   | X   | X   | X   |
| UVC Germicidal Light Kit                                                                       |                                                                     |  |                    |                |               |     |     |     |     |
| ¹ UVC Light Kit (110/230v-1ph)                                                                 |                                                                     |  |                    | 54W65          | X             | X   | X   | X   | X   |
| ELECTRICAL                                                                                     |                                                                     |  |                    |                |               |     |     |     |     |
| Voltage 60 hz                                                                                  |                                                                     |  | 208/230V - 3 phase | Factory        | O             | O   | O   | O   | O   |
|                                                                                                |                                                                     |  | 460V - 3 phase     | Factory        | O             | O   | O   | O   | O   |
|                                                                                                |                                                                     |  | 575V - 3 phase     | Factory        | O             | O   | O   | O   | O   |
| HACR Circuit Breakers                                                                          |                                                                     |  |                    | Factory        | O             | O   | O   | O   | O   |
| Short-Circuit Current Rating (SCCR) of 100kA (includes Phase/Voltage Detection)                |                                                                     |  |                    | Factory        | O             | O   | O   | O   | O   |
| Disconnect Switch<br>(see Disconnect Table for usage, page 51)                                 | 80 amp - E1DISC080C-1                                               |  |                    | 54W88          | OX            | OX  | OX  | OX  | OX  |
|                                                                                                | 150 amp - E1DISC150C-1                                              |  |                    | 54W89          | OX            | OX  | OX  | OX  | OX  |
|                                                                                                | 250 amp - C1DISC250A-D1                                             |  |                    | 90W82          |               |     |     |     | OX  |
| GFI Service Outlets                                                                            | 15 amp non-powered, field-wired (208/230V, 460V, 575V) LTAGFIK10/15 |  |                    | 74M70          | OX            | OX  | OX  | OX  | OX  |
|                                                                                                | 15 amp factory-wired and powered (208/230V, 460V, 575V)             |  |                    | Factory        | O             | O   | O   | O   | O   |
|                                                                                                | 20 amp non-powered, field-wired (575V only) C1GFCI20FF1             |  |                    | 67E01          | OX            | OX  | OX  | OX  | OX  |
| Weatherproof Cover for GFI                                                                     |                                                                     |  | C1GFCI99FF1        | 10C89          | X             | X   | X   | X   | X   |
| Phase/Voltage Detection (Optional for CAV options only, furnished with Single Zone VAV option) |                                                                     |  |                    | Factory        | O             | O   | O   | O   | O   |

<sup>1</sup> Lamps operate on 110-230V single-phase power supply. Step-down transformer must be field supplied for field installation in 460V and 575V rooftop units (transformer is furnished for factory installed light kits). Alternately, a separate 110V power supply may be used to directly power the UVC ballast(s).

NOTE - Catalog and model numbers shown are for ordering field installed accessories.

OX - Configure To Order (Factory Installed) or Field Installed

O = Configure To Order (Factory Installed)

X = Field Installed

## OPTIONS / ACCESSORIES

| Item Description                                                                                                                                                                                                            | Model Number                                       | Catalog Number | Unit Model No |     |     |     |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------|---------------|-----|-----|-----|-----|
|                                                                                                                                                                                                                             |                                                    |                | 156           | 180 | 210 | 240 | 300 |
| ECONOMIZER                                                                                                                                                                                                                  |                                                    |                |               |     |     |     |     |
| High Performance Economizer (Approved for California Title 24 Building Standards AMCA Class 1A Certified)                                                                                                                   |                                                    |                |               |     |     |     |     |
| High Performance Economizer<br>Downflow or Horizontal Applications - Includes Outdoor Air Hood.<br>Order Downflow or Horizontal Barometric Relief Dampers separately.                                                       | E1ECON17C-2                                        | 16Y98          | OX            | OX  | OX  | OX  | OX  |
| Economizer Controls                                                                                                                                                                                                         |                                                    |                |               |     |     |     |     |
| Differential Enthalpy (Not for Title 24)                                                                                                                                                                                    | Order 2 - C1SNSR64FF1                              | 53W64          | OX            | OX  | OX  | OX  | OX  |
| Sensible Control                                                                                                                                                                                                            | Sensor is Furnished                                | Factory        | O             | O   | O   | O   | O   |
| Single Enthalpy (Not for Title 24)                                                                                                                                                                                          | C1SNSR64FF1                                        | 53W64          | OX            | OX  | OX  | OX  | OX  |
| Global Control                                                                                                                                                                                                              | Sensor Field Provided                              | Factory        | O             | O   | O   | O   | O   |
| Building Pressure Control                                                                                                                                                                                                   | E1GPBK20C1                                         | 13J77          | X             | X   | X   | X   | X   |
| Outdoor Air CFM Control                                                                                                                                                                                                     | E1GPBK10C1                                         | 13J76          | X             | X   | X   | X   | X   |
| Barometric Relief Dampers With Exhaust Hood                                                                                                                                                                                 |                                                    |                |               |     |     |     |     |
| Downflow Barometric Relief Dampers                                                                                                                                                                                          | C1DAMP50C                                          | 54W78          | OX            | OX  | OX  | OX  | OX  |
| Horizontal Barometric Relief Dampers                                                                                                                                                                                        | LAGEDH18/24                                        | 16K99          | X             | X   | X   | X   | X   |
| OUTDOOR AIR                                                                                                                                                                                                                 |                                                    |                |               |     |     |     |     |
| Outdoor Air Dampers With Outdoor Air Hood                                                                                                                                                                                   |                                                    |                |               |     |     |     |     |
| Motorized                                                                                                                                                                                                                   | C1DAMP20C-1                                        | 13U04          | OX            | OX  | OX  | OX  | OX  |
| Manual                                                                                                                                                                                                                      | C1DAMP10C-2                                        | 13U05          | OX            | OX  | OX  | OX  | OX  |
| POWER EXHAUST                                                                                                                                                                                                               |                                                    |                |               |     |     |     |     |
| Standard Static                                                                                                                                                                                                             | 208/230V - C1PWRE11C-1Y                            | 75W90          | OX            | OX  | OX  | OX  | OX  |
|                                                                                                                                                                                                                             | 460V - C1PWRE11C-1G                                | 75W91          | OX            | OX  | OX  | OX  | OX  |
|                                                                                                                                                                                                                             | 575V - C1PWRE11C-1J                                | 75W92          | OX            | OX  | OX  | OX  | OX  |
| SCCR Rated, Standard Static                                                                                                                                                                                                 | 208/230V - C1PWRE11C-1Y                            | 75W90          | OX            | OX  | OX  | OX  | OX  |
|                                                                                                                                                                                                                             | 460V - C1PWRE11C-2G                                | 17J93          | OX            | OX  | OX  | OX  | OX  |
|                                                                                                                                                                                                                             | 575V - C1PWRE11C-2J                                | 17J98          | OX            | OX  | OX  | OX  | OX  |
| CONDENSER REHEAT OPTION (CAV AND SINGLE ZONE VAV) MODELS ONLY                                                                                                                                                               |                                                    |                |               |     |     |     |     |
| Dehumidification Option                                                                                                                                                                                                     | Factory                                            |                | O             | O   | O   | O   | O   |
| Humidity Sensor Kit, Remote mounted (required)                                                                                                                                                                              | C0SNSR31AE-1                                       | 17M50          | X             | X   | X   | X   | X   |
| CABINET                                                                                                                                                                                                                     |                                                    |                |               |     |     |     |     |
| Combination Coil/Hail Guards                                                                                                                                                                                                | Eco-Last™ Coil System - C1GARD52C12                | 15T92          | X             |     |     |     |     |
|                                                                                                                                                                                                                             | Eco-Last™ Coil System - C1GARD52C22                | 15T93          |               | X   | X   | X   | X   |
|                                                                                                                                                                                                                             | Conventional Fin/Tube Condenser Coil - C1GARD51C11 | 13T08          | X             |     |     |     |     |
|                                                                                                                                                                                                                             | Conventional Fin/Tube Condenser Coil - C1GARD51C21 | 13T12          |               | X   | X   | X   | X   |
| NOTE - Catalog and model numbers shown are for ordering field installed accessories.<br>OX - Configure To Order (Factory Installed) or Field Installed<br>O = Configure To Order (Factory Installed)<br>X = Field Installed |                                                    |                |               |     |     |     |     |



## OPTIONS / ACCESSORIES

| Item Description                                                           | Model Number | Catalog Number | Unit Model No |     |     |     |     |
|----------------------------------------------------------------------------|--------------|----------------|---------------|-----|-----|-----|-----|
|                                                                            |              |                | 156           | 180 | 210 | 240 | 300 |
| ROOF CURBS                                                                 |              |                |               |     |     |     |     |
| Hybrid Roof Curbs, Downflow                                                |              |                |               |     |     |     |     |
| 8 in. height                                                               | C1CURB70C-1  | 11F58          | X             | X   | X   | X   | X   |
| 14 in. height                                                              | C1CURB71C-1  | 11F59          | X             | X   | X   | X   | X   |
| 18 in. height                                                              | C1CURB72C-1  | 11F60          | X             | X   | X   | X   | X   |
| 24 in. height                                                              | C1CURB73C-1  | 11F61          | X             | X   | X   | X   | X   |
| Adjustable Pitch Curb                                                      |              |                |               |     |     |     |     |
| 14 in. height                                                              | L1CURB55C    | 43W26          | X             | X   | X   | X   | X   |
| Standard Roof Curbs, Horizontal - Requires Horizontal Return Air Panel Kit |              |                |               |     |     |     |     |
| 26 in. height - slab applications                                          | C1CURB14C-1  | 11T89          | X             | X   | X   | X   |     |
| 30 in. height - slab applications                                          | C1CURB15C-1  | 11T90          |               |     |     |     | X   |
| 37 in. height - rooftop applications                                       | C1CURB16C-1  | 11T96          | X             | X   | X   | X   |     |
| 41 in. height - rooftop applications                                       | C1CURB17C-1  | 11T97          |               |     |     |     | X   |
| Insulation Kit For Standard Horizontal Roof Curbs                          |              |                |               |     |     |     |     |
| for C1CURB14C-1 (26 in.)                                                   | C1INSU11C-1  | 73K32          | X             | X   | X   | X   |     |
| for C1CURB15C-1 (30 in.)                                                   | C1INSU12C-1  | 73K33          |               |     |     |     | X   |
| for C1CURB16C-1 (37 in.)                                                   | C1INSU13C-1  | 73K34          | X             | X   | X   | X   |     |
| for C1CURB17C-1 (41 in.)                                                   | C1INSU14C-1  | 73K35          |               |     |     |     | X   |
| Horizontal Return Air Panel Kit                                            |              |                |               |     |     |     |     |
| Required for Horizontal Applications with Roof Curb                        | C1HRAP10C-1  | 87M00          | X             | X   | X   | X   | X   |
| CEILING DIFFUSERS                                                          |              |                |               |     |     |     |     |
| Step-Down - Order one                                                      | RTD11-185S   | 13K63          | X             | X   |     |     |     |
|                                                                            | RTD11-275S   | 13K64          |               |     | X   | X   | X   |
| Flush - Order one                                                          | FD11-185S    | 13K58          | X             | X   |     |     |     |
|                                                                            | FD11-275S    | 13K59          |               |     | X   | X   | X   |
| Transitions (Supply and Return) - Order one                                | C1DIFF33C-1  | 12X68          | X             | X   |     |     |     |
|                                                                            | C1DIFF34C-1  | 12X70          |               |     | X   | X   | X   |

NOTE - Catalog and model numbers shown are for ordering field installed accessories.

OX - Configure To Order (Factory Installed) or Field Installed

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## SPECIFICATIONS

| General Data                                   |                                             | Nominal Tonnage                                                                                                                                                                                                                                     | 13 Ton                                      | 13 Ton                       |               |
|------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------|---------------|
|                                                |                                             | Model Number                                                                                                                                                                                                                                        | LGH156H4B                                   | LGH156H4V                    |               |
|                                                |                                             | Efficiency Type                                                                                                                                                                                                                                     | High                                        | High                         |               |
|                                                |                                             | Blower Type                                                                                                                                                                                                                                         | CAV<br>(Constant Air Volume)                | VAV<br>(Variable Air Volume) |               |
|                                                |                                             |                                                                                                                                                                                                                                                     |                                             | Single Zone VAV Supply Fan   |               |
| Cooling Performance                            | Gross Cooling Capacity - Btuh               |                                                                                                                                                                                                                                                     | 154,000                                     | 152,000                      |               |
|                                                | <sup>1</sup> Net Cooling Capacity - Btuh    |                                                                                                                                                                                                                                                     | 150,000                                     | 148,000                      |               |
|                                                | AHRI Rated Air Flow - cfm                   |                                                                                                                                                                                                                                                     | 5000                                        | 4600                         |               |
|                                                | Total Unit Power - kW                       |                                                                                                                                                                                                                                                     | 12.5                                        | 12.3                         |               |
|                                                | <sup>1</sup> EER (Btuh/Watt)                |                                                                                                                                                                                                                                                     | 12.0                                        | 12.0                         |               |
|                                                | <sup>2</sup> IEER (Btuh/Watt)               |                                                                                                                                                                                                                                                     | 13.2                                        | 14.5                         |               |
| Refrigerant Charge                             | Refrigerant Type                            |                                                                                                                                                                                                                                                     | R-410A                                      | R-410A                       |               |
|                                                | Eco-Last™ Coil System                       | Circuit 1                                                                                                                                                                                                                                           | 5 lbs. 12 oz.                               | 5 lbs. 0 oz.                 | 5 lbs. 12 oz. |
|                                                |                                             | Circuit 2                                                                                                                                                                                                                                           | 5 lbs. 4 oz.                                | 5 lbs. 8 oz.                 | 5 lbs. 4 oz.  |
|                                                |                                             | Circuit 3                                                                                                                                                                                                                                           | 5 lbs. 10 oz.                               | 5 lbs. 0 oz.                 | 5 lbs. 10 oz. |
|                                                | Eco-Last™ Coil System with Dehumidification | Circuit 1                                                                                                                                                                                                                                           | 5 lbs. 14 oz.                               | ---                          | 5 lbs. 14 oz. |
|                                                |                                             | Circuit 2                                                                                                                                                                                                                                           | 5 lbs. 8 oz.                                | ---                          | 5 lbs. 8 oz.  |
|                                                |                                             | Circuit 3                                                                                                                                                                                                                                           | 5 lbs. 12 oz.                               | ---                          | 5 lbs. 12 oz. |
|                                                | Conventional Fin/Tube Coil Option           | Circuit 1                                                                                                                                                                                                                                           | 10 lbs. 0 oz.                               | ---                          | 10 lbs. 0 oz. |
|                                                |                                             | Circuit 2                                                                                                                                                                                                                                           | 10 lbs. 0 oz.                               | ---                          | 10 lbs. 0 oz. |
|                                                |                                             | Circuit 3                                                                                                                                                                                                                                           | 9 lbs. 8 oz.                                | ---                          | 9 lbs. 8 oz.  |
|                                                | Conventional Fin/Tube With                  | Circuit 1                                                                                                                                                                                                                                           | 12 lbs. 0 oz.                               | ---                          | 12 lbs. 0 oz. |
|                                                |                                             | Circuit 2                                                                                                                                                                                                                                           | 12 lbs. 0 oz.                               | ---                          | 12 lbs. 0 oz. |
|                                                |                                             | Circuit 3                                                                                                                                                                                                                                           | 9 lbs. 8 oz.                                | ---                          | 9 lbs. 8 oz.  |
|                                                | Gas Heating Options Available               |                                                                                                                                                                                                                                                     | See page 33                                 |                              |               |
|                                                | Compressor Type (number)                    |                                                                                                                                                                                                                                                     | Scroll (3)                                  | Scroll (3)                   | Scroll (3)    |
| Outdoor Coils                                  | Net face area (total) - sq. ft.             |                                                                                                                                                                                                                                                     | 41.4                                        | 41.4                         |               |
|                                                | Eco-Last™ Number of rows                    |                                                                                                                                                                                                                                                     | 1 (2)                                       | 1 (2)                        |               |
|                                                | (Fin/Tube) Fins per inch                    |                                                                                                                                                                                                                                                     | 23 (20)                                     | 23 (20)                      |               |
| Outdoor Coil Fans                              | Motor - (No.) horsepower                    |                                                                                                                                                                                                                                                     | (3) 1/3                                     | (3) 1/3                      |               |
|                                                | Motor rpm                                   |                                                                                                                                                                                                                                                     | 1075                                        | 1075                         |               |
|                                                | Total Motor watts                           |                                                                                                                                                                                                                                                     | 1100                                        | 1100                         |               |
|                                                | Diameter - (No.) in.                        |                                                                                                                                                                                                                                                     | (3) 24                                      | (3) 24                       |               |
|                                                | Number of blades                            |                                                                                                                                                                                                                                                     | 3                                           | 3                            |               |
|                                                | Total Air volume - cfm                      |                                                                                                                                                                                                                                                     | 12,000                                      | 12,000                       |               |
| Indoor Coils                                   | Net face area (total) - sq. ft.             |                                                                                                                                                                                                                                                     | 21.4                                        | 21.4                         |               |
|                                                | Tube diameter - in.                         |                                                                                                                                                                                                                                                     | 3/8                                         | 3/8                          |               |
|                                                | Number of rows                              |                                                                                                                                                                                                                                                     | 3                                           | 3                            |               |
|                                                | Fins per inch                               |                                                                                                                                                                                                                                                     | 14                                          | 14                           |               |
|                                                | Drain connection - No. and size             |                                                                                                                                                                                                                                                     | (1) 1 in. FPT                               | (1) 1 in. FPT                |               |
| Expansion device type                          |                                             | Balance port TXV, removable head                                                                                                                                                                                                                    |                                             |                              |               |
| <sup>3</sup> Indoor Blower and Drive Selection | Nominal motor output                        | 2 hp, 3 hp, 5 hp                                                                                                                                                                                                                                    |                                             |                              |               |
|                                                | Max. usable motor output (US)               | 2.3 hp, 3.45 hp, 5.75 hp                                                                                                                                                                                                                            |                                             |                              |               |
|                                                | Motor - Drive kit number                    | 2 hp<br>Kit 1 535-725 rpm<br>Kit 2 710-965 rpm<br>3 hp Std. Eff.<br>Kit 1 535-725 rpm<br>Kit 2 710-965 rpm<br>3 hp High. Eff.<br>Kit 3 685-856 rpm<br>Kit 4 850-1045 rpm<br>5 hp<br>Kit 3 - 685-856 rpm<br>Kit 4 850-1045 rpm<br>Kit 5 945-1185 rpm |                                             |                              |               |
|                                                | Blower wheel nominal D x W - in.            | (2) 15 x 15 in.                                                                                                                                                                                                                                     | (2) 15 x 15 in.                             | (2) 15 x 15 in.              |               |
|                                                | Filters                                     | Type of filter                                                                                                                                                                                                                                      | Fiberglass, disposable                      |                              |               |
|                                                |                                             | Number and size - in.                                                                                                                                                                                                                               | (6) 24 x 24 x 2                             |                              |               |
|                                                | Electrical characteristics                  |                                                                                                                                                                                                                                                     | 208/230V, 460V or 575V - 60 hertz - 3 phase |                              |               |

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> AHRI Certified to AHRI Standard 340/360; 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

<sup>2</sup> Integrated Energy Efficiency Ratio tested according to AHRI Standard 340/360.

<sup>3</sup> Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor output required. Maximum usable output of motors furnished are shown. In Canada, nominal motor output is also maximum usable motor output. If motors of comparable output are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

NOTE - Units equipped with Single Zone Vav option are limited to a motor service factor of 1.0.

## SPECIFICATIONS

| General Data                                   |                                             | Nominal Tonnage |                                                                                                                                                                                                                                                                                | 15 Ton                                      | 15 Ton                       | 15 Ton                        | 17.5 Ton                     | 17.5 Ton                      |
|------------------------------------------------|---------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------|-------------------------------|------------------------------|-------------------------------|
|                                                |                                             | Model Number    |                                                                                                                                                                                                                                                                                | LGH180H4B                                   | LGH180H4V                    | LGH180H4M                     | LGH210H4B                    | LGH210H4M                     |
|                                                |                                             | Efficiency Type |                                                                                                                                                                                                                                                                                | High                                        | High                         | High                          | High                         | High                          |
|                                                |                                             | Blower Type     |                                                                                                                                                                                                                                                                                | CAV<br>(Constant Air Volume)                | VAV<br>(Variable Air Volume) | Single Zone<br>VAV Supply Fan | CAV<br>(Constant Air Volume) | Single Zone<br>VAV Supply Fan |
| Cooling Performance                            | Gross Cooling Capacity - Btuh               |                 | 176,000                                                                                                                                                                                                                                                                        | 176,000                                     | 176,000                      | 204,000                       | 204,000                      |                               |
|                                                | <sup>1</sup> Net Cooling Capacity - Btuh    |                 | 172,000                                                                                                                                                                                                                                                                        | 172,000                                     | 172,000                      | 198,000                       | 198,000                      |                               |
|                                                | AHRI Rated Air Flow - cfm                   |                 | 5250                                                                                                                                                                                                                                                                           | 5250                                        | 5250                         | 6125                          | 6125                         |                               |
|                                                | Total Unit Power - kW                       |                 | 14.3                                                                                                                                                                                                                                                                           | 14.3                                        | 14.3                         | 16.5                          | 16.5                         |                               |
|                                                | <sup>1</sup> EER (Btuh/Watt)                |                 | 12.0                                                                                                                                                                                                                                                                           | 12.0                                        | 12.0                         | 12.0                          | 12.0                         |                               |
|                                                | <sup>2</sup> IEER (Btuh/Watt)               |                 | 13.5                                                                                                                                                                                                                                                                           | 15.2                                        | 13.7                         | 13.0                          | 14.0                         |                               |
| Refrigerant Charge                             | Refrigerant Type                            |                 | R-410A                                                                                                                                                                                                                                                                         | R-410A                                      | R-410A                       | R-410A                        | R-410A                       |                               |
|                                                | Eco-Last™ Coil System                       | Circuit 1       | 6 lbs. 0 oz.                                                                                                                                                                                                                                                                   | 5 lbs. 4 oz.                                | 6 lbs. 0 oz.                 | 6 lbs. 12 oz.                 | 6 lbs. 12 oz.                |                               |
|                                                |                                             | Circuit 2       | 5 lbs. 10 oz.                                                                                                                                                                                                                                                                  | 5 lbs. 8 oz.                                | 5 lbs. 10 oz.                | 6 lbs. 14 oz.                 | 6 lbs. 14 oz.                |                               |
|                                                |                                             | Circuit 3       | 5 lbs. 14 oz.                                                                                                                                                                                                                                                                  | 5 lbs. 8 oz.                                | 5 lbs. 14 oz.                | 6 lbs. 14 oz.                 | 6 lbs. 14 oz.                |                               |
|                                                | Eco-Last™ Coil System with Dehumidification | Circuit 1       | 6 lbs. 8 oz.                                                                                                                                                                                                                                                                   | ---                                         | 6 lbs. 8 oz.                 | 7 lbs. 4 oz.                  | 7 lbs. 4 oz.                 |                               |
|                                                |                                             | Circuit 2       | 5 lbs. 12 oz.                                                                                                                                                                                                                                                                  | ---                                         | 5 lbs. 12 oz.                | 7 lbs. 0 oz.                  | 7 lbs. 0 oz.                 |                               |
|                                                |                                             | Circuit 3       | 6 lbs. 9 oz.                                                                                                                                                                                                                                                                   | ---                                         | 6 lbs. 9 oz.                 | 6 lbs. 4 oz.                  | 6 lbs. 4 oz.                 |                               |
|                                                | Conventional Fin/Tube Coil Option           | Circuit 1       | 12 lbs. 8 oz.                                                                                                                                                                                                                                                                  | ---                                         | 12 lbs. 8 oz.                | 13 lbs. 0 oz.                 | 13 lbs. 0 oz.                |                               |
|                                                |                                             | Circuit 2       | 12 lbs. 8 oz.                                                                                                                                                                                                                                                                  | ---                                         | 12 lbs. 8 oz.                | 13 lbs. 0 oz.                 | 13 lbs. 0 oz.                |                               |
|                                                |                                             | Circuit 3       | 12 lbs. 8 oz.                                                                                                                                                                                                                                                                  | ---                                         | 12 lbs. 8 oz.                | 13 lbs. 0 oz.                 | 13 lbs. 0 oz.                |                               |
|                                                | Conventional Fin/Tube With                  | Circuit 1       | 14 lbs. 8 oz.                                                                                                                                                                                                                                                                  | ---                                         | 14 lbs. 8 oz.                | 15 lbs. 0 oz.                 | 15 lbs. 0 oz.                |                               |
|                                                |                                             | Circuit 2       | 14 lbs. 8 oz.                                                                                                                                                                                                                                                                  | ---                                         | 14 lbs. 8 oz.                | 15 lbs. 0 oz.                 | 15 lbs. 0 oz.                |                               |
|                                                |                                             | Circuit 3       | 12 lbs. 8 oz.                                                                                                                                                                                                                                                                  | ---                                         | 12 lbs. 8 oz.                | 13 lbs. 0 oz.                 | 13 lbs. 0 oz.                |                               |
|                                                | Gas Heating Options Available               |                 |                                                                                                                                                                                                                                                                                | See page 33                                 |                              |                               |                              |                               |
|                                                | Compressor Type (number)                    |                 |                                                                                                                                                                                                                                                                                | Scroll (3)                                  | Scroll (3)                   | Scroll (3)                    | Scroll (3)                   | Scroll (3)                    |
| Outdoor Coils                                  | Net face area (total) - sq. ft.             |                 | 55.2                                                                                                                                                                                                                                                                           | 55.2                                        | 55.2                         | 55.2                          | 55.2                         |                               |
|                                                | Eco-Last™ Number of rows                    |                 | 1 (2)                                                                                                                                                                                                                                                                          | 1 (2)                                       | 1 (2)                        | 1 (2)                         | 1 (2)                        |                               |
|                                                | (Fin/Tube) Fins per inch                    |                 | 23 (20)                                                                                                                                                                                                                                                                        | 23 (20)                                     | 23 (20)                      | 23 (20)                       | 23 (20)                      |                               |
| Outdoor Coil Fans                              | Motor - (No.) horsepower                    |                 | (4) 1/3                                                                                                                                                                                                                                                                        | (4) 1/3                                     | (4) 1/3                      | (6) 1/3                       | (6) 1/3                      |                               |
|                                                | Motor rpm                                   |                 | 1075                                                                                                                                                                                                                                                                           | 1075                                        | 1075                         | 1075                          | 1075                         |                               |
|                                                | Total Motor watts                           |                 | 1500                                                                                                                                                                                                                                                                           | 1500                                        | 1500                         | 1950                          | 1950                         |                               |
|                                                | Diameter - (No.) in.                        |                 | (4) 24                                                                                                                                                                                                                                                                         | (4) 24                                      | (4) 24                       | (6) 24                        | (6) 24                       |                               |
|                                                | Number of blades                            |                 | 3                                                                                                                                                                                                                                                                              | 3                                           | 3                            | 3                             | 3                            |                               |
|                                                | Total Air volume - cfm                      |                 | 16,000                                                                                                                                                                                                                                                                         | 16,000                                      | 16,000                       | 20,000                        | 20,000                       |                               |
| Indoor Coils                                   | Net face area (total) - sq. ft.             |                 | 21.4                                                                                                                                                                                                                                                                           | 21.4                                        | 21.4                         | 21.4                          | 21.4                         |                               |
|                                                | Tube diameter - in.                         |                 | 3/8                                                                                                                                                                                                                                                                            | 3/8                                         | 3/8                          | 3/8                           | 3/8                          |                               |
|                                                | Number of rows                              |                 | 3                                                                                                                                                                                                                                                                              | 3                                           | 3                            | 4                             | 4                            |                               |
|                                                | Fins per inch                               |                 | 14                                                                                                                                                                                                                                                                             | 14                                          | 14                           | 14                            | 14                           |                               |
|                                                | Drain connection - No. and size             |                 | (1) 1 in. FPT                                                                                                                                                                                                                                                                  | (1) 1 in. FPT                               | (1) 1 in. FPT                | (1) 1 in. FPT                 | (1) 1 in. FPT                |                               |
| Expansion device type                          |                                             |                 | Balance port TXV, removable head                                                                                                                                                                                                                                               |                                             |                              |                               |                              |                               |
| <sup>3</sup> Indoor Blower and Drive Selection | Nominal motor output                        |                 | 3 hp, 5 hp, 7.5 hp                                                                                                                                                                                                                                                             |                                             |                              |                               |                              |                               |
|                                                | Max. usable motor output (US)               |                 | 3.45 hp, 5.75 hp, 8.62 hp                                                                                                                                                                                                                                                      |                                             |                              |                               |                              |                               |
|                                                | Motor - Drive kit number                    |                 | 3 hp Std. Eff.<br>Kit 1 535-725 rpm<br>Kit 2 710-965 rpm<br>3 hp High. Eff.<br>Kit 3 - 685-856 rpm<br>Kit 4 850-1045 rpm<br>5 hp<br>Kit 3 685-856 rpm<br>Kit 4 850-1045 rpm<br>Kit 5 945-1185 rpm<br>7.5 hp<br>Kit 6 850-1045 rpm<br>Kit 7 945-1185 rpm<br>Kit 8 1045-1285 rpm |                                             |                              |                               |                              |                               |
|                                                | Blower wheel nominal D x W - in.            |                 | (2) 15 x 15                                                                                                                                                                                                                                                                    |                                             |                              |                               |                              |                               |
|                                                | Filters                                     |                 | Fiberglass, disposable                                                                                                                                                                                                                                                         |                                             |                              |                               |                              |                               |
|                                                | Type of filter                              |                 | (6) 24 x 24 x 2                                                                                                                                                                                                                                                                |                                             |                              |                               |                              |                               |
|                                                | Number and size - in.                       |                 |                                                                                                                                                                                                                                                                                |                                             |                              |                               |                              |                               |
|                                                | Electrical characteristics                  |                 |                                                                                                                                                                                                                                                                                | 208/230V, 460V or 575V - 60 hertz - 3 phase |                              |                               |                              |                               |

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> AHRI Certified to AHRI Standard 340/360; 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

<sup>2</sup> Integrated Energy Efficiency Ratio tested according to AHRI Standard 340/360.

<sup>3</sup> Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor output required. Maximum usable output of motors furnished are shown. In Canada, nominal motor output is also maximum usable motor output. If motors of comparable output are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

NOTE - Units equipped with Single Zone Vav option are limited to a motor service factor of 1.0.

## SPECIFICATIONS

| General Data                                   |                                             |                                 | Nominal Tonnage                                                                                                                                                                                                                           | 20 Ton                                      | 20 Ton                       | 20 Ton                     |
|------------------------------------------------|---------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------|----------------------------|
|                                                |                                             |                                 | Model Number                                                                                                                                                                                                                              | LGH240H4B                                   | LGH240H4V                    | LGH240H4M                  |
|                                                |                                             |                                 | Efficiency Type                                                                                                                                                                                                                           | High                                        | High                         | High                       |
|                                                |                                             |                                 | Blower Type                                                                                                                                                                                                                               | CAV<br>(Constant Air Volume)                | VAV<br>(Variable Air Volume) | Single Zone VAV Supply Fan |
| Cooling Performance                            | Gross Cooling Capacity - Btuh               |                                 | 238,000                                                                                                                                                                                                                                   | 238,000                                     | 238,000                      |                            |
|                                                | <sup>1</sup> Net Cooling Capacity - Btuh    |                                 | 230,000                                                                                                                                                                                                                                   | 230,000                                     | 230,000                      |                            |
|                                                | AHRI Rated Air Flow - cfm                   |                                 | 6400                                                                                                                                                                                                                                      | 6400                                        | 6400                         |                            |
|                                                | Total Unit Power - kW                       |                                 | 19.2                                                                                                                                                                                                                                      | 19.2                                        | 19.2                         |                            |
|                                                | <sup>1</sup> EER (Btuh/Watt)                |                                 | 12.0                                                                                                                                                                                                                                      | 12.0                                        | 12.0                         |                            |
|                                                | <sup>2</sup> IEER (Btuh/Watt)               |                                 | 13.2                                                                                                                                                                                                                                      | 16.0                                        | 14.5                         |                            |
| Refrigerant Charge                             | Refrigerant Type                            |                                 | R-410A                                                                                                                                                                                                                                    | R-410A                                      | R-410A                       |                            |
|                                                | Eco-Last™ Coil System                       | Circuit 1                       | 6 lbs. 4 oz.                                                                                                                                                                                                                              | 6 lbs. 2 oz.                                | 6 lbs. 4 oz.                 |                            |
|                                                |                                             | Circuit 2                       | 6 lbs. 2 oz.                                                                                                                                                                                                                              | 6 lbs. 6 oz.                                | 6 lbs. 2 oz.                 |                            |
|                                                |                                             | Circuit 3                       | 5 lbs. 14 oz.                                                                                                                                                                                                                             | 6 lbs. 0 oz.                                | 5 lbs. 14 oz.                |                            |
|                                                |                                             | Circuit 4                       | 5 lbs. 6 oz.                                                                                                                                                                                                                              | 6 lbs. 10 oz.                               | 5 lbs. 6 oz.                 |                            |
|                                                | Eco-Last™ Coil System with Dehumidification | Circuit 1                       | 6 lbs. 4 oz.                                                                                                                                                                                                                              | ---                                         | 6 lbs. 4 oz.                 |                            |
|                                                |                                             | Circuit 2                       | 5 lbs. 10 oz.                                                                                                                                                                                                                             | ---                                         | 5 lbs. 10 oz.                |                            |
|                                                |                                             | Circuit 3                       | 4 lbs. 14 oz.                                                                                                                                                                                                                             | ---                                         | 4 lbs. 14 oz.                |                            |
|                                                |                                             | Circuit 4                       | 4 lbs. 14 oz.                                                                                                                                                                                                                             | ---                                         | 4 lbs. 14 oz.                |                            |
|                                                | Conventional Fin/Tube Coil Option           | Circuit 1                       | 10 lbs. 0 oz.                                                                                                                                                                                                                             | ---                                         | 10 lbs. 0 oz.                |                            |
|                                                |                                             | Circuit 2                       | 10 lbs. 0 oz.                                                                                                                                                                                                                             | ---                                         | 10 lbs. 0 oz.                |                            |
|                                                |                                             | Circuit 3                       | 10 lbs. 0 oz.                                                                                                                                                                                                                             | ---                                         | 10 lbs. 0 oz.                |                            |
|                                                |                                             | Circuit 4                       | 8 lbs. 12 oz.                                                                                                                                                                                                                             | ---                                         | 8 lbs. 12 oz.                |                            |
|                                                | Conventional Fin/Tube With                  | Circuit 1                       | 12 lbs. 0 oz.                                                                                                                                                                                                                             | ---                                         | 12 lbs. 0 oz.                |                            |
|                                                |                                             | Circuit 2                       | 12 lbs. 0 oz.                                                                                                                                                                                                                             | ---                                         | 12 lbs. 0 oz.                |                            |
|                                                |                                             | Circuit 3                       | 10 lbs. 0 oz.                                                                                                                                                                                                                             | ---                                         | 10 lbs. 0 oz.                |                            |
|                                                |                                             | Circuit 4                       | 8 lbs. 12 oz.                                                                                                                                                                                                                             | ---                                         | 8 lbs. 12 oz.                |                            |
|                                                | Gas Heating Options Available               |                                 |                                                                                                                                                                                                                                           | See page 33                                 |                              |                            |
|                                                | Compressor Type (number)                    |                                 |                                                                                                                                                                                                                                           | Scroll (4)                                  | Scroll (4)                   | Scroll (4)                 |
|                                                | Outdoor Coils                               | Net face area (total) - sq. ft. |                                                                                                                                                                                                                                           | 55.2                                        | 55.2                         | 55.2                       |
| Eco-Last™ (Fin/Tube)                           | Number of rows                              |                                 | 1 (2)                                                                                                                                                                                                                                     | 1 (2)                                       | 1 (2)                        |                            |
|                                                | Fins per inch                               |                                 | 23 (20)                                                                                                                                                                                                                                   | 23 (20)                                     | 23 (20)                      |                            |
| Outdoor Coil Fans                              | Motor - (No.) horsepower                    |                                 | (6) 1/3                                                                                                                                                                                                                                   | (6) 1/3                                     | (6) 1/3                      |                            |
|                                                | Motor rpm -Total Motor watts                |                                 | 1075 - 1950                                                                                                                                                                                                                               | 1075 - 1950                                 | 1075 - 1950                  |                            |
|                                                | Diameter - (No.) in. - No. of blades        |                                 | (6) 24 - 3                                                                                                                                                                                                                                | (6) 24 - 3                                  | (6) 24 - 3                   |                            |
|                                                | Total Air volume - cfm                      |                                 | 20,000                                                                                                                                                                                                                                    | 20,000                                      | 20,000                       |                            |
| Indoor Coils                                   | Net face area (total) - sq. ft.             |                                 | 21.4                                                                                                                                                                                                                                      | 21.4                                        | 21.4                         |                            |
|                                                | Tube diameter - in.                         |                                 | 3/8                                                                                                                                                                                                                                       | 3/8                                         | 3/8                          |                            |
|                                                | Number of rows                              |                                 | 4                                                                                                                                                                                                                                         | 4                                           | 4                            |                            |
|                                                | Fins per inch                               |                                 | 14                                                                                                                                                                                                                                        | 14                                          | 14                           |                            |
|                                                | Drain connection - No. and size             |                                 | (1) 1 in. FPT                                                                                                                                                                                                                             | (1) 1 in. FPT                               | (1) 1 in. FPT                |                            |
|                                                | Expansion device type                       |                                 | Balance port TXV, removable head                                                                                                                                                                                                          |                                             |                              |                            |
| <sup>3</sup> Indoor Blower and Drive Selection | Nominal motor output                        |                                 | 5 hp, 7.5 hp, 10 hp                                                                                                                                                                                                                       |                                             |                              |                            |
|                                                | Maximum usable motor output (US Only)       |                                 | 5.75 hp, 8.62 hp, 11.5 hp                                                                                                                                                                                                                 |                                             |                              |                            |
|                                                | Motor - Drive kit number                    |                                 | 5 hp<br>Kit 3 685-856 rpm<br>Kit 4 850-1045 rpm<br>Kit 5 945-1185 rpm<br><br>7.5 hp<br>Kit 6 850-1045 rpm<br>Kit 7 945-1185 rpm<br>Kit 8 1045-1285 rpm<br><br>10 hp<br>Kit 7 945-1185 rpm<br>Kit 10 1045-1285 rpm<br>Kit 11 1135-1365 rpm |                                             |                              |                            |
|                                                | Blower wheel nom. D x W - in.               |                                 | (2) 15 x 15                                                                                                                                                                                                                               |                                             |                              |                            |
|                                                | Filters                                     | Type of filter                  | Fiberglass, disposable                                                                                                                                                                                                                    |                                             |                              |                            |
|                                                |                                             | Number and size - in.           | (6) 24 x 24 x 2                                                                                                                                                                                                                           |                                             |                              |                            |
|                                                | Electrical characteristics                  |                                 |                                                                                                                                                                                                                                           | 208/230V, 460V or 575V - 60 hertz - 3 phase |                              |                            |

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> AHRI Certified to AHRI Standard 340/360; 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

<sup>2</sup> Integrated Energy Efficiency Ratio tested according to AHRI Standard 340/360.

<sup>3</sup> Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor output required. Maximum usable output of motors furnished are shown. In Canada, nominal motor output is also maximum usable motor output. If motors of comparable output are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

NOTE - Units equipped with Single Zone Vav option are limited to a motor service factor of 1.0.

## SPECIFICATIONS

| General Data                                   |                                             | Nominal Tonnage                 | 25 Ton                                                                                                                                                                                                                            | 25 Ton                                      |            |
|------------------------------------------------|---------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------|
|                                                |                                             | Model Number                    | LGH300S4B                                                                                                                                                                                                                         | LGH300S4M                                   |            |
|                                                |                                             | Efficiency Type                 | Standard                                                                                                                                                                                                                          | Standard                                    |            |
|                                                |                                             | Blower Type                     | CAV<br>(Constant Air Volume)                                                                                                                                                                                                      | Single Zone VAV Supply Fan                  |            |
| Cooling Performance                            | Gross Cooling Capacity - Btuh               |                                 | 281,000                                                                                                                                                                                                                           | 281,000                                     |            |
|                                                | <sup>1</sup> Net Cooling Capacity - Btuh    |                                 | 270,000                                                                                                                                                                                                                           | 270,000                                     |            |
|                                                | AHRI Rated Air Flow - cfm                   |                                 | 8400                                                                                                                                                                                                                              | 8400                                        |            |
|                                                | Total Unit Power - kW                       |                                 | 25.7                                                                                                                                                                                                                              | 25.7                                        |            |
|                                                | <sup>1</sup> EER (Btuh/Watt)                |                                 | 10.5                                                                                                                                                                                                                              | 10.5                                        |            |
|                                                | <sup>2</sup> IEER (Btuh/Watt)               |                                 | 11.4                                                                                                                                                                                                                              | 13.8                                        |            |
| Refrigerant Charge                             | Refrigerant Type                            |                                 | R-410A                                                                                                                                                                                                                            | R-410A                                      |            |
|                                                | Eco-Last™ Coil System                       | Circuit 1                       | 6 lbs. 4 oz.                                                                                                                                                                                                                      | 6 lbs. 4 oz.                                |            |
|                                                |                                             | Circuit 2                       | 5 lbs. 10 oz.                                                                                                                                                                                                                     | 5 lbs. 10 oz.                               |            |
|                                                |                                             | Circuit 3                       | 6 lbs. 6 oz.                                                                                                                                                                                                                      | 6 lbs. 6 oz.                                |            |
|                                                |                                             | Circuit 4                       | 6 lbs. 0 oz.                                                                                                                                                                                                                      | 6 lbs. 0 oz.                                |            |
|                                                | Eco-Last™ Coil System with Dehumidification | Circuit 1                       | 7 lbs. 8 oz.                                                                                                                                                                                                                      | 7 lbs. 8 oz.                                |            |
|                                                |                                             | Circuit 2                       | 6 lbs. 4 oz.                                                                                                                                                                                                                      | 6 lbs. 4 oz.                                |            |
|                                                |                                             | Circuit 3                       | 6 lbs. 2 oz.                                                                                                                                                                                                                      | 6 lbs. 2 oz.                                |            |
|                                                |                                             | Circuit 4                       | 5 lbs. 14 oz.                                                                                                                                                                                                                     | 5 lbs. 14 oz.                               |            |
|                                                | Conventional Fin/Tube Coil Option           | Circuit 1                       | 10 lbs. 8 oz.                                                                                                                                                                                                                     | 10 lbs. 8 oz.                               |            |
|                                                |                                             | Circuit 2                       | 10 lbs. 0 oz.                                                                                                                                                                                                                     | 10 lbs. 0 oz.                               |            |
|                                                |                                             | Circuit 3                       | 9 lbs. 12 oz.                                                                                                                                                                                                                     | 9 lbs. 12 oz.                               |            |
|                                                |                                             | Circuit 4                       | 9 lbs. 12 oz.                                                                                                                                                                                                                     | 9 lbs. 12 oz.                               |            |
|                                                | Conventional Fin/Tube With                  | Circuit 1                       | 12 lbs. 12 oz.                                                                                                                                                                                                                    | 12 lbs. 12 oz.                              |            |
|                                                |                                             | Circuit 2                       | 11 lbs. 12 oz.                                                                                                                                                                                                                    | 11 lbs. 12 oz.                              |            |
|                                                |                                             | Circuit 3                       | 9 lbs. 12 oz.                                                                                                                                                                                                                     | 9 lbs. 12 oz.                               |            |
|                                                |                                             | Circuit 4                       | 9 lbs. 12 oz.                                                                                                                                                                                                                     | 9 lbs. 12 oz.                               |            |
|                                                | Gas Heating Options Available               |                                 |                                                                                                                                                                                                                                   | See page 33                                 |            |
|                                                | Compressor Type (number)                    |                                 |                                                                                                                                                                                                                                   | Scroll (4)                                  | Scroll (4) |
|                                                | Outdoor Coils                               | Net face area (total) - sq. ft. |                                                                                                                                                                                                                                   | 55.2                                        | 55.2       |
| Eco-Last™ Number of rows                       |                                             | 1 (2)                           | 1 (2)                                                                                                                                                                                                                             |                                             |            |
| (Fin/Tube) Fins per inch                       |                                             | 23 (20)                         | 23 (20)                                                                                                                                                                                                                           |                                             |            |
| Outdoor Coil Fans                              | Motor - (No.) horsepower                    |                                 | (6) 1/3                                                                                                                                                                                                                           | (6) 1/3                                     |            |
|                                                | Motor rpm -Total Motor watts                |                                 | 1075 - 1950                                                                                                                                                                                                                       | 1075 - 1950                                 |            |
|                                                | Diameter - (No.) in. - No. of blades        |                                 | (6) 24 - 3                                                                                                                                                                                                                        | (6) 24 - 3                                  |            |
|                                                | Total Air volume - cfm                      |                                 | 20,000                                                                                                                                                                                                                            | 20,000                                      |            |
| Indoor Coils                                   | Net face area (total) - sq. ft.             |                                 | 21.4                                                                                                                                                                                                                              | 21.4                                        |            |
|                                                | Tube diameter - in.                         |                                 | 3/8                                                                                                                                                                                                                               | 3/8                                         |            |
|                                                | Number of rows                              |                                 | 4                                                                                                                                                                                                                                 | 4                                           |            |
|                                                | Fins per inch                               |                                 | 14                                                                                                                                                                                                                                | 14                                          |            |
|                                                | Drain connection - No. and size             |                                 | (1) 1 in. FPT                                                                                                                                                                                                                     | (1) 1 in. FPT                               |            |
|                                                | Expansion device type                       |                                 | Balance port TXV, removable head                                                                                                                                                                                                  |                                             |            |
| <sup>3</sup> Indoor Blower and Drive Selection | Nominal motor output                        |                                 | 5 hp, 7.5 hp, 10 hp                                                                                                                                                                                                               |                                             |            |
|                                                | Maximum usable motor output (US Only)       |                                 | 5.75 hp, 8.62 hp, 11.5 hp                                                                                                                                                                                                         |                                             |            |
|                                                | Motor - Drive kit number                    |                                 | 5 hp<br>Kit 3 685-856 rpm<br>Kit 4 850-1045 rpm<br>Kit 5 945-1185 rpm<br>7.5 hp<br>Kit 6 850-1045 rpm<br>Kit 7 945-1185 rpm<br>Kit 8 1045-1285 rpm<br>10 hp<br>Kit 7 945-1185 rpm<br>Kit 10 1045-1285 rpm<br>Kit 11 1135-1365 rpm |                                             |            |
|                                                | Blower wheel nom. D x W - in.               |                                 | (2) 15 x 15                                                                                                                                                                                                                       |                                             |            |
|                                                | Filters                                     | Type of filter                  |                                                                                                                                                                                                                                   | Fiberglass, disposable                      |            |
|                                                |                                             | Number and size - in.           |                                                                                                                                                                                                                                   | (6) 24 x 24 x 2                             |            |
|                                                | Electrical characteristics                  |                                 |                                                                                                                                                                                                                                   | 208/230V, 460V or 575V - 60 hertz - 3 phase |            |

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> AHRI Certified to AHRI Standard 340/360; 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

<sup>2</sup> Integrated Energy Efficiency Ratio tested according to AHRI Standard 340/360.

<sup>3</sup> Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor output required. Maximum usable output of motors furnished are shown. In Canada, nominal motor output is also maximum usable motor output. If motors of comparable output are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

NOTE – Units equipped with Single Zone Vav option are limited to a motor service factor of 1.0.

## SPECIFICATIONS - GAS HEAT

| Usage Data                                        |               |              | Model Number              | LGH156<br>LGH180<br>LGH210 | LGH156<br>LGH180<br>LGH210<br>LGH240<br>LGH300 | LGH180<br>LGH210<br>LGH240<br>LGH300 |          |
|---------------------------------------------------|---------------|--------------|---------------------------|----------------------------|------------------------------------------------|--------------------------------------|----------|
|                                                   |               |              | Heat Input Type           | Low (L)                    | Standard (S)                                   | Medium (M)                           | High (H) |
|                                                   |               |              | Number of Gas Heat Stages | 1                          | 2                                              | 2                                    | 2        |
| Gas Heating Performance (Two-Stage)               | Input - Btuh  | First Stage  | 169,000                   | 169,000                    | 234,000                                        | 312,000                              |          |
|                                                   |               | Second Stage | N/A                       | 260,000                    | 360,000                                        | 480,000                              |          |
|                                                   | Output - Btuh | First Stage  | 135,000                   | ---                        | ---                                            | ---                                  |          |
|                                                   |               | Second Stage | N/A                       | 208,000                    | 288,000                                        | 384,000                              |          |
| <sup>1</sup> Gas Heating Performance (Four-Stage) | Input - Btuh  | First Stage  | N/A                       | 84,500                     | 117,000                                        | 156,000                              |          |
|                                                   |               | Second Stage | N/A                       | 169,000                    | 234,000                                        | 312,000                              |          |
|                                                   |               | Third Stage  | N/A                       | 214,000                    | 297,000                                        | 396,000                              |          |
|                                                   |               | Fourth Stage | N/A                       | 260,000                    | 360,000                                        | 480,000                              |          |
|                                                   | Output - Btuh | First Stage  | 135,000                   | ---                        | ---                                            | ---                                  |          |
|                                                   |               | Second Stage | N/A                       | ---                        | ---                                            | ---                                  |          |
|                                                   |               | Third Stage  | N/A                       | ---                        | ---                                            | ---                                  |          |
|                                                   |               | Fourth Stage | N/A                       | 208,000                    | 288,000                                        | 384,000                              |          |
| Temperature Rise Range - °F                       |               |              | 15 - 45                   | 15 - 45                    | 30 - 60                                        | 40 - 70                              |          |
| Thermal Efficiency                                |               |              | 80.0%                     | 80.0%                      | 80.0%                                          | 80.0%                                |          |
| Gas Supply Connections                            |               |              | 1 in. npt                 | 1 in. npt                  | 1 in. npt                                      | 1 in. npt                            |          |
| Recommended Gas Supply Pressure - in. w.g.        |               | Natural      | 7                         | 7                          | 7                                              | 7                                    |          |
|                                                   |               | LPG/Propane  | 11                        | 11                         | 11                                             | 11                                   |          |

<sup>1</sup> Four-stage gas heating is enabled when zone sensor, Discharge Air Control, or fresh air tempering mode is selected. (Available when using the CS8500 thermostat or when connected to Building Automation Systems using BACnet, LonTalk, or S-Bus protocols)

## HIGH ALTITUDE DERATE

Units may be installed at altitudes up to 2000 feet above sea level without any modification.

At altitudes above 2000 feet, units must be derated to match gas manifold pressures shown in table below.

At altitudes above 4500 feet unit must be derated 2% for each 1000 feet above sea level.

NOTE – This is the only permissible derate for these units.

### TWO-STAGE

| Gas Heat Type (Two-Stage) | Altitude - ft.         | Gas Manifold Pressure - in. w.g. |                 | Input Rate<br>Natural Gas or LPG/Propane - Btuh |              |
|---------------------------|------------------------|----------------------------------|-----------------|-------------------------------------------------|--------------|
|                           |                        | Natural Gas                      | LPG/Propane Gas | First Stage                                     | Second Stage |
| Low (L)                   | No adjustment required |                                  |                 |                                                 |              |
| Standard (S)              | 2001 - 4500            | 3.4                              | 9.6             | 169,000                                         | 249,000      |
| Medium (M)                | 2001 - 4500            | 3.4                              | 9.6             | 234,000                                         | 345,000      |
| High (H)                  | 2001 - 4500            | 3.4                              | 9.6             | 312,000                                         | 460,000      |

### FOUR-STAGE

| <sup>1</sup> Gas Heat Type (Four-Stage) | Altitude - ft.         | Gas Manifold Pressure - in. w.g. |                 | Input Rate<br>Natural Gas or LPG/Propane - Btuh |              |             |              |
|-----------------------------------------|------------------------|----------------------------------|-----------------|-------------------------------------------------|--------------|-------------|--------------|
|                                         |                        | Natural Gas                      | LPG/Propane Gas | First Stage                                     | Second Stage | Third Stage | Fourth Stage |
| Low (L)                                 | No adjustment required |                                  |                 |                                                 |              |             |              |
| Standard (S)                            | 2001 - 4500            | 3.4                              | 9.6             | 84,000                                          | 169,000      | 209,000     | 249,000      |
| Medium (M)                              | 2001 - 4500            | 3.4                              | 9.6             | 117,000                                         | 234,000      | 289,000     | 345,000      |
| High (H)                                | 2001 - 4500            | 3.4                              | 9.6             | 156,000                                         | 312,000      | 386,000     | 460,000      |

<sup>1</sup> Four-Stage Gas Heating is field configured.



## RATINGS

NOTE – For Temperatures and Capacities not shown in tables, see bulletin – Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 13 TON HIGH EFFICIENCY LGH156H4B (1ST STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |       |      |                 |                   |                               |      |      |                 |                   |                               |      |      |                 |                   |                               |      |       |    |      |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|-------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|-------|----|------|------|------|
|                               |                  | 65°F                                          |                   |                               |       |      |                 | 75°F              |                               |      |      |                 |                   | 85°F                          |      |      |                 |                   |                               | 95°F |       |    |      |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |       |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       |    |      |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |       |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |       |    |      |      |      |
|                               |                  |                                               |                   | cfm                           | kBtuh | kW   |                 |                   | 75°F                          | 80°F | 85°F |                 |                   | kBtuh                         | kW   | 75°F |                 |                   | 80°F                          | 85°F | kBtuh | kW | 75°F | 80°F | 85°F |
| 63°F                          | 4160             | 110.6                                         | 4.68              | 0.67                          | 0.80  | 0.93 | 103.7           | 5.30              | 0.68                          | 0.81 | 0.95 | 96.4            | 5.97              | 0.68                          | 0.82 | 0.97 | 88.8            | 6.74              | 0.68                          | 0.84 | 0.99  |    |      |      |      |
|                               | 5200             | 117.9                                         | 4.73              | 0.72                          | 0.87  | 0.99 | 110.4           | 5.34              | 0.72                          | 0.88 | 1.00 | 102.7           | 6.01              | 0.73                          | 0.90 | 1.00 | 94.7            | 6.78              | 0.74                          | 0.93 | 1.00  |    |      |      |      |
|                               | 6240             | 123.1                                         | 4.77              | 0.76                          | 0.93  | 1.00 | 115.4           | 5.38              | 0.77                          | 0.95 | 1.00 | 107.5           | 6.05              | 0.79                          | 0.97 | 1.00 | 99.3            | 6.81              | 0.80                          | 0.99 | 1.00  |    |      |      |      |
| 67°F                          | 4160             | 118.4                                         | 4.73              | 0.54                          | 0.65  | 0.77 | 111.2           | 5.34              | 0.53                          | 0.65 | 0.78 | 103.8           | 6.02              | 0.52                          | 0.66 | 0.79 | 96.0            | 6.79              | 0.52                          | 0.66 | 0.80  |    |      |      |      |
|                               | 5200             | 126.0                                         | 4.79              | 0.57                          | 0.70  | 0.83 | 118.4           | 5.39              | 0.56                          | 0.70 | 0.85 | 110.5           | 6.07              | 0.56                          | 0.71 | 0.86 | 102.2           | 6.83              | 0.56                          | 0.72 | 0.89  |    |      |      |      |
|                               | 6240             | 131.7                                         | 4.83              | 0.59                          | 0.74  | 0.90 | 123.6           | 5.43              | 0.59                          | 0.75 | 0.91 | 115.4           | 6.11              | 0.59                          | 0.76 | 0.94 | 106.7           | 6.87              | 0.59                          | 0.78 | 0.96  |    |      |      |      |
| 71°F                          | 4160             | 126.1                                         | 4.78              | 0.42                          | 0.53  | 0.63 | 118.8           | 5.39              | 0.40                          | 0.52 | 0.63 | 111.2           | 6.07              | 0.39                          | 0.52 | 0.63 | 103.1           | 6.84              | 0.37                          | 0.51 | 0.64  |    |      |      |      |
|                               | 5200             | 134.1                                         | 4.84              | 0.43                          | 0.55  | 0.67 | 126.1           | 5.45              | 0.41                          | 0.55 | 0.68 | 118.0           | 6.13              | 0.4                           | 0.55 | 0.69 | 109.6           | 6.89              | 0.39                          | 0.55 | 0.70  |    |      |      |      |
|                               | 6240             | 140.0                                         | 4.88              | 0.44                          | 0.58  | 0.72 | 131.7           | 5.49              | 0.42                          | 0.58 | 0.73 | 123.3           | 6.17              | 0.42                          | 0.59 | 0.74 | 114.3           | 6.93              | 0.40                          | 0.59 | 0.76  |    |      |      |      |

### 13 TON HIGH EFFICIENCY LGH156H4B (2ND STAGE) - CONSTANT AIR VOLUME

| Entering<br>Wet Bulb<br>Temperature | Total<br>Air<br>Volume | Outdoor Air Temperature Entering Outdoor Coil |                         |                                  |       |      |                       |                         |                                  |      |      |                       |                         |                                  |      |      |                       |                         |                                  |      |       |
|-------------------------------------|------------------------|-----------------------------------------------|-------------------------|----------------------------------|-------|------|-----------------------|-------------------------|----------------------------------|------|------|-----------------------|-------------------------|----------------------------------|------|------|-----------------------|-------------------------|----------------------------------|------|-------|
|                                     |                        | 85°F                                          |                         |                                  |       |      | 95°F                  |                         |                                  |      |      | 105°F                 |                         |                                  |      |      | 115°F                 |                         |                                  |      |       |
|                                     |                        | Total<br>Cool<br>Cap.                         | Comp.<br>Motor<br>Input | Sensible To Total<br>Ratio (S/T) |       |      | Total<br>Cool<br>Cap. | Comp.<br>Motor<br>Input | Sensible To Total<br>Ratio (S/T) |      |      | Total<br>Cool<br>Cap. | Comp.<br>Motor<br>Input | Sensible To Total<br>Ratio (S/T) |      |      | Total<br>Cool<br>Cap. | Comp.<br>Motor<br>Input | Sensible To Total<br>Ratio (S/T) |      |       |
|                                     |                        |                                               |                         | Dry Bulb                         |       |      |                       |                         | Dry Bulb                         |      |      |                       |                         | Dry Bulb                         |      |      |                       |                         | Dry Bulb                         |      |       |
|                                     |                        |                                               |                         | cfm                              | kBtuh | kW   |                       |                         | 75°F                             | 80°F | 85°F |                       |                         | kBtuh                            | kW   | 75°F |                       |                         | 80°F                             | 85°F | kBtuh |
| 63°F                                | 4160                   | 148.1                                         | 9.05                    | 0.70                             | 0.85  | 0.99 | 136.5                 | 10.20                   | 0.71                             | 0.87 | 1.00 | 124.5                 | 11.51                   | 0.72                             | 0.9  | 1.00 | 112.1                 | 13.01                   | 0.73                             | 0.93 | 1.00  |
|                                     | 5200                   | 157.1                                         | 9.11                    | 0.76                             | 0.94  | 1.00 | 145.1                 | 10.26                   | 0.77                             | 0.96 | 1.00 | 132.6                 | 11.57                   | 0.79                             | 0.99 | 1.00 | 120.5                 | 13.08                   | 0.81                             | 1.00 | 1.00  |
|                                     | 6240                   | 164.5                                         | 9.17                    | 0.82                             | 0.99  | 1.00 | 152.7                 | 10.32                   | 0.83                             | 1.00 | 1.00 | 141.1                 | 11.64                   | 0.86                             | 1.00 | 1.00 | 129.1                 | 13.15                   | 0.89                             | 1.00 | 1.00  |
| 67°F                                | 4160                   | 159.3                                         | 9.13                    | 0.54                             | 0.68  | 0.82 | 147.4                 | 10.28                   | 0.54                             | 0.69 | 0.84 | 135.3                 | 11.59                   | 0.53                             | 0.70 | 0.86 | 122.4                 | 13.09                   | 0.53                             | 0.71 | 0.89  |
|                                     | 5200                   | 169.0                                         | 9.20                    | 0.58                             | 0.74  | 0.90 | 156.5                 | 10.35                   | 0.58                             | 0.75 | 0.92 | 143.4                 | 11.66                   | 0.58                             | 0.77 | 0.95 | 129.8                 | 13.16                   | 0.58                             | 0.79 | 0.98  |
|                                     | 6240                   | 175.9                                         | 9.25                    | 0.61                             | 0.80  | 0.97 | 162.7                 | 10.40                   | 0.62                             | 0.81 | 0.99 | 149.1                 | 11.71                   | 0.62                             | 0.83 | 1.00 | 135.2                 | 13.2                    | 0.63                             | 0.86 | 1.00  |
| 71°F                                | 4160                   | 170.4                                         | 9.21                    | 0.40                             | 0.53  | 0.66 | 158.1                 | 10.36                   | 0.38                             | 0.53 | 0.66 | 145.8                 | 11.68                   | 0.37                             | 0.53 | 0.67 | 132.6                 | 13.18                   | 0.35                             | 0.52 | 0.69  |
|                                     | 5200                   | 180.5                                         | 9.29                    | 0.41                             | 0.57  | 0.72 | 167.6                 | 10.44                   | 0.41                             | 0.57 | 0.73 | 154.2                 | 11.75                   | 0.39                             | 0.57 | 0.74 | 140.5                 | 13.25                   | 0.37                             | 0.58 | 0.76  |
|                                     | 6240                   | 187.9                                         | 9.35                    | 0.43                             | 0.61  | 0.77 | 174.4                 | 10.50                   | 0.42                             | 0.61 | 0.79 | 160.4                 | 11.81                   | 0.41                             | 0.61 | 0.81 | 146.2                 | 13.31                   | 0.40                             | 0.62 | 0.84  |

### 15 TON HIGH EFFICIENCY LGH180H4B (1ST STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 65°F                                          |                   |                               |      |       | 75°F            |                   |                               |      |       | 85°F            |                   |                               |      |       | 95°F            |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |      |
| cfm                           | kBtuh            | kW                                            | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F |      |
| 63°F                          | 4800             | 127.8                                         | 5.04              | 0.70                          | 0.82 | 0.93  | 120.4           | 5.79              | 0.7                           | 0.82 | 0.94  | 112.8           | 6.62              | 0.70                          | 0.83 | 0.96  | 104.8           | 7.53              | 0.70                          | 0.85 | 0.98 |
|                               | 6000             | 136.3                                         | 5.05              | 0.74                          | 0.87 | 0.99  | 128.3           | 5.81              | 0.75                          | 0.88 | 1.00  | 120.1           | 6.64              | 0.75                          | 0.90 | 1.00  | 111.6           | 7.56              | 0.76                          | 0.92 | 1.00 |
|                               | 7200             | 142.4                                         | 5.05              | 0.78                          | 0.92 | 1.00  | 134.1           | 5.82              | 0.79                          | 0.94 | 1.00  | 125.4           | 6.66              | 0.80                          | 0.96 | 1.00  | 116.7           | 7.58              | 0.81                          | 0.98 | 1.00 |
| 67°F                          | 4800             | 136.5                                         | 5.05              | 0.56                          | 0.68 | 0.79  | 129.0           | 5.81              | 0.55                          | 0.68 | 0.79  | 121.1           | 6.65              | 0.55                          | 0.68 | 0.80  | 112.8           | 7.56              | 0.54                          | 0.68 | 0.81 |
|                               | 6000             | 145.4                                         | 5.06              | 0.59                          | 0.72 | 0.84  | 137.2           | 5.83              | 0.58                          | 0.72 | 0.85  | 128.8           | 6.67              | 0.58                          | 0.73 | 0.86  | 120.1           | 7.60              | 0.58                          | 0.74 | 0.88 |
|                               | 7200             | 151.9                                         | 5.06              | 0.61                          | 0.76 | 0.89  | 143.3           | 5.84              | 0.61                          | 0.77 | 0.91  | 134.5           | 6.69              | 0.61                          | 0.78 | 0.93  | 125.3           | 7.62              | 0.61                          | 0.79 | 0.95 |
| 71°F                          | 4800             | 145.1                                         | 5.06              | 0.44                          | 0.55 | 0.65  | 137.2           | 5.83              | 0.42                          | 0.54 | 0.65  | 129.2           | 6.67              | 0.41                          | 0.54 | 0.66  | 120.6           | 7.60              | 0.40                          | 0.53 | 0.66 |
|                               | 6000             | 154.3                                         | 5.07              | 0.45                          | 0.57 | 0.70  | 145.9           | 5.85              | 0.43                          | 0.57 | 0.70  | 137.2           | 6.70              | 0.42                          | 0.57 | 0.71  | 128.1           | 7.63              | 0.41                          | 0.57 | 0.71 |
|                               | 7200             | 161.0                                         | 5.08              | 0.46                          | 0.6  | 0.74  | 152.3           | 5.86              | 0.44                          | 0.6  | 0.74  | 143.1           | 6.72              | 0.44                          | 0.6  | 0.76  | 133.6           | 7.66              | 0.43                          | 0.61 | 0.77 |

### 15 TON HIGH EFFICIENCY LGH180H4B (2ND STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 85°F                                          |                   |                               |      |       | 95°F            |                   |                               |      |       | 105°F           |                   |                               |      |       | 115°F           |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |      |
| cfm                           | kBtuh            | kW                                            | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F |      |
| 63°F                          | 4800             | 172.5                                         | 9.96              | 0.71                          | 0.85 | 0.99  | 160.1           | 11.32             | 0.71                          | 0.87 | 1.00  | 146.8           | 12.83             | 0.72                          | 0.90 | 1.00  | 132.7           | 14.51             | 0.74                          | 0.93 | 1.00 |
|                               | 6000             | 182.6                                         | 9.99              | 0.77                          | 0.93 | 1.00  | 169.5           | 11.37             | 0.78                          | 0.95 | 1.00  | 155.7           | 12.89             | 0.79                          | 0.98 | 1.00  | 141.3           | 14.57             | 0.81                          | 1.00 | 1.00 |
|                               | 7200             | 190.3                                         | 10.02             | 0.82                          | 0.99 | 1.00  | 177.3           | 11.41             | 0.83                          | 1.00 | 1.00  | 164.3           | 12.94             | 0.86                          | 1.00 | 1.00  | 150.5           | 14.64             | 0.89                          | 1.00 | 1.00 |
| 67°F                          | 4800             | 185.0                                         | 10.00             | 0.55                          | 0.69 | 0.82  | 172.1           | 11.38             | 0.55                          | 0.69 | 0.84  | 158.6           | 12.90             | 0.54                          | 0.70 | 0.86  | 144.0           | 14.59             | 0.54                          | 0.72 | 0.89 |
|                               | 6000             | 195.8                                         | 10.04             | 0.58                          | 0.74 | 0.90  | 182.1           | 11.43             | 0.58                          | 0.76 | 0.92  | 167.5           | 12.96             | 0.59                          | 0.77 | 0.95  | 152.2           | 14.65             | 0.59                          | 0.79 | 0.98 |
|                               | 7200             | 203.7                                         | 10.07             | 0.62                          | 0.8  | 0.97  | 189.3           | 11.46             | 0.62                          | 0.81 | 0.99  | 173.9           | 13.00             | 0.63                          | 0.84 | 1.00  | 157.8           | 14.69             | 0.63                          | 0.86 | 1.00 |
| 71°F                          | 4800             | 197.2                                         | 10.04             | 0.41                          | 0.54 | 0.67  | 183.9           | 11.43             | 0.39                          | 0.54 | 0.67  | 169.9           | 12.97             | 0.38                          | 0.53 | 0.68  | 155.0           | 14.67             | 0.36                          | 0.53 | 0.69 |
|                               | 6000             | 208.4                                         | 10.09             | 0.42                          | 0.58 | 0.72  | 194.2           | 11.48             | 0.41                          | 0.58 | 0.73  | 179.4           | 13.03             | 0.4                           | 0.58 | 0.75  | 163.3           | 14.73             | 0.38                          | 0.59 | 0.77 |
|                               | 7200             | 216.6                                         | 10.12             | 0.43                          | 0.61 | 0.78  | 201.8           | 11.52             | 0.42                          | 0.62 | 0.79  | 186.2           | 13.07             | 0.42                          | 0.62 | 0.81  | 169.7           | 14.78             | 0.41                          | 0.63 | 0.84 |



## RATINGS

NOTE – For Temperatures and Capacities not shown in tables, see bulletin – Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 17.5 TON HIGH EFFICIENCY LGH210H4B (1ST STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |       |      |                 |                   |                               |      |      |                 |                   |                               |      |      |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|-------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 65°F                                          |                   |                               |       |      | 75°F            |                   |                               |      |      | 85°F            |                   |                               |      |      | 95°F            |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |       |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |       |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |
|                               |                  |                                               |                   | cfm                           | kBtuh | kW   |                 |                   | 75°F                          | 80°F | 85°F | kBtuh           |                   | kW                            | 75°F | 80°F | 85°F            |                   | kBtuh                         | kW   | 75°F |
| 63°F                          | 5600             | 142.9                                         | 5.49              | 0.71                          | 0.85  | 0.97 | 134.4           | 6.23              | 0.72                          | 0.86 | 0.99 | 125.5           | 7.05              | 0.72                          | 0.88 | 1.00 | 116.4           | 7.97              | 0.74                          | 0.9  | 1.00 |
|                               | 7000             | 151.1                                         | 5.54              | 0.76                          | 0.92  | 1.00 | 142.3           | 6.29              | 0.77                          | 0.94 | 1.00 | 133             | 7.11              | 0.79                          | 0.96 | 1.00 | 123.5           | 8.03              | 0.80                          | 0.98 | 1.00 |
|                               | 8400             | 157.9                                         | 5.58              | 0.82                          | 0.98  | 1.00 | 148.7           | 6.34              | 0.83                          | 1.00 | 1.00 | 139.3           | 7.16              | 0.84                          | 1.00 | 1.00 | 130.5           | 8.08              | 0.87                          | 1.00 | 1.00 |
| 67°F                          | 5600             | 153.6                                         | 5.55              | 0.56                          | 0.69  | 0.81 | 144.5           | 6.30              | 0.56                          | 0.69 | 0.83 | 135.3           | 7.13              | 0.56                          | 0.70 | 0.84 | 125.7           | 8.04              | 0.56                          | 0.71 | 0.86 |
|                               | 7000             | 161.9                                         | 5.61              | 0.60                          | 0.74  | 0.88 | 152.1           | 6.36              | 0.6                           | 0.75 | 0.90 | 142.5           | 7.19              | 0.60                          | 0.77 | 0.92 | 132.2           | 8.10              | 0.61                          | 0.78 | 0.95 |
|                               | 8400             | 167.9                                         | 5.65              | 0.63                          | 0.79  | 0.95 | 157.9           | 6.41              | 0.63                          | 0.81 | 0.97 | 147.6           | 7.23              | 0.63                          | 0.82 | 0.99 | 137.0           | 8.14              | 0.63                          | 0.84 | 1.00 |
| 71°F                          | 5600             | 164.4                                         | 5.63              | 0.43                          | 0.55  | 0.67 | 154.9           | 6.38              | 0.42                          | 0.55 | 0.67 | 145.2           | 7.21              | 0.41                          | 0.54 | 0.68 | 135.3           | 8.13              | 0.4                           | 0.55 | 0.69 |
|                               | 7000             | 172.9                                         | 5.69              | 0.45                          | 0.59  | 0.72 | 162.9           | 6.45              | 0.44                          | 0.59 | 0.73 | 152.6           | 7.27              | 0.43                          | 0.59 | 0.74 | 142.1           | 8.19              | 0.42                          | 0.60 | 0.76 |
|                               | 8400             | 179.1                                         | 5.74              | 0.45                          | 0.62  | 0.77 | 168.6           | 6.49              | 0.46                          | 0.63 | 0.79 | 157.8           | 7.32              | 0.45                          | 0.63 | 0.8  | 146.5           | 8.24              | 0.44                          | 0.64 | 0.82 |

### 17.5 TON HIGH EFFICIENCY LGH210H4B (2ND STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 85°F                                          |                   |                               |      |       | 95°F            |                   |                               |      |       | 105°F           |                   |                               |      |       | 115°F           |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |      |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F |
| cfm                           | kBtuh            | kW                                            | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F |      |
| 63°F                          | 5600             | 197.5                                         | 11.26             | 0.71                          | 0.86 | 0.99  | 183.2           | 12.71             | 0.73                          | 0.89 | 1.00  | 168.8           | 14.37             | 0.74                          | 0.91 | 1.00  | 153.6           | 16.25             | 0.75                          | 0.94 | 1.00 |
|                               | 7000             | 209.3                                         | 11.34             | 0.78                          | 0.95 | 1.00  | 194.5           | 12.8              | 0.79                          | 0.97 | 1.00  | 179.6           | 14.45             | 0.81                          | 0.99 | 1.00  | 164.6           | 16.33             | 0.83                          | 1.00 | 1.00 |
|                               | 8400             | 219.3                                         | 11.42             | 0.83                          | 0.99 | 1.00  | 205.2           | 12.89             | 0.85                          | 1.00 | 1.00  | 190.5           | 14.55             | 0.88                          | 1.00 | 1.00  | 175.2           | 16.42             | 0.91                          | 1.00 | 1.00 |
| 67°F                          | 5600             | 212.6                                         | 11.36             | 0.55                          | 0.69 | 0.83  | 198.1           | 12.83             | 0.55                          | 0.70 | 0.85  | 182.6           | 14.48             | 0.55                          | 0.71 | 0.87  | 166.4           | 16.34             | 0.55                          | 0.73 | 0.90 |
|                               | 7000             | 224.4                                         | 11.46             | 0.59                          | 0.76 | 0.91  | 208.9           | 12.92             | 0.60                          | 0.77 | 0.94  | 192.3           | 14.56             | 0.60                          | 0.79 | 0.96  | 175.2           | 16.41             | 0.60                          | 0.81 | 0.98 |
|                               | 8400             | 232.7                                         | 11.52             | 0.62                          | 0.81 | 0.98  | 216.2           | 12.98             | 0.63                          | 0.83 | 0.99  | 199.3           | 14.62             | 0.64                          | 0.85 | 1.00  | 181.7           | 16.47             | 0.64                          | 0.88 | 1.00 |
| 71°F                          | 5600             | 228.4                                         | 11.49             | 0.41                          | 0.54 | 0.67  | 212.9           | 12.95             | 0.40                          | 0.54 | 0.68  | 197.0           | 14.60             | 0.39                          | 0.55 | 0.69  | 180.1           | 16.46             | 0.38                          | 0.55 | 0.71 |
|                               | 7000             | 240.3                                         | 11.59             | 0.42                          | 0.59 | 0.73  | 223.9           | 13.05             | 0.42                          | 0.59 | 0.75  | 206.9           | 14.69             | 0.41                          | 0.59 | 0.76  | 189.0           | 16.54             | 0.40                          | 0.60 | 0.78 |
|                               | 8400             | 248.5                                         | 11.66             | 0.44                          | 0.62 | 0.79  | 231.5           | 13.12             | 0.44                          | 0.63 | 0.81  | 214.0           | 14.75             | 0.43                          | 0.64 | 0.83  | 195.1           | 16.60             | 0.42                          | 0.64 | 0.86 |

### 20 TON HIGH EFFICIENCY LGH240H4B (1ST STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |        |                 |                   |                               |      |        |                 |                   |                               |      |        |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|--------|-----------------|-------------------|-------------------------------|------|--------|-----------------|-------------------|-------------------------------|------|--------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 65°F                                          |                   |                               |      |        | 75°F            |                   |                               |      |        | 85°F            |                   |                               |      |        | 95°F            |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |        | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |        | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |        | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |        |                 |                   | Dry Bulb                      |      |        |                 |                   | Dry Bulb                      |      |        |                 |                   | Dry Bulb                      |      |      |
|                               |                  |                                               |                   |                               |      |        |                 |                   |                               |      |        |                 |                   |                               |      |        |                 |                   |                               |      |      |
| cfm                           | kBtu/h           | kW                                            | 75°F              | 80°F                          | 85°F | kBtu/h | kW              | 75°F              | 80°F                          | 85°F | kBtu/h | kW              | 75°F              | 80°F                          | 85°F | kBtu/h | kW              | 75°F              | 80°F                          | 85°F |      |
| 63°F                          | 6400             | 130.1                                         | 5.15              | 0.69                          | 0.81 | 0.94   | 123.5           | 5.86              | 0.69                          | 0.83 | 0.96   | 116.6           | 6.64              | 0.70                          | 0.84 | 0.98   | 109.3           | 7.52              | 0.71                          | 0.86 | 0.99 |
|                               | 8000             | 137.5                                         | 5.20              | 0.73                          | 0.88 | 0.99   | 130.5           | 5.91              | 0.74                          | 0.90 | 1.00   | 123.1           | 6.69              | 0.75                          | 0.92 | 1.00   | 115.6           | 7.57              | 0.77                          | 0.94 | 1.00 |
|                               | 9600             | 143.4                                         | 5.25              | 0.78                          | 0.94 | 1.00   | 136.1           | 5.96              | 0.79                          | 0.96 | 1.00   | 128.4           | 6.74              | 0.81                          | 0.98 | 1.00   | 120.6           | 7.62              | 0.83                          | 0.99 | 1.00 |
| 67°F                          | 6400             | 139.2                                         | 5.22              | 0.55                          | 0.66 | 0.78   | 132.2           | 5.93              | 0.55                          | 0.67 | 0.79   | 124.7           | 6.71              | 0.55                          | 0.68 | 0.81   | 117.0           | 7.58              | 0.55                          | 0.69 | 0.83 |
|                               | 8000             | 146.6                                         | 5.27              | 0.57                          | 0.71 | 0.85   | 139.1           | 5.99              | 0.58                          | 0.72 | 0.86   | 131.3           | 6.77              | 0.58                          | 0.73 | 0.88   | 123.0           | 7.64              | 0.58                          | 0.75 | 0.91 |
|                               | 9600             | 152.1                                         | 5.31              | 0.60                          | 0.76 | 0.91   | 144.2           | 6.03              | 0.61                          | 0.77 | 0.93   | 135.9           | 6.81              | 0.62                          | 0.79 | 0.96   | 127.2           | 7.68              | 0.62                          | 0.81 | 0.98 |
| 71°F                          | 6400             | 148.1                                         | 5.28              | 0.42                          | 0.53 | 0.64   | 140.8           | 6.00              | 0.42                          | 0.53 | 0.65   | 133.2           | 6.79              | 0.41                          | 0.54 | 0.65   | 125.1           | 7.66              | 0.41                          | 0.53 | 0.66 |
|                               | 8000             | 155.9                                         | 5.34              | 0.43                          | 0.56 | 0.69   | 148.1           | 6.06              | 0.43                          | 0.56 | 0.69   | 139.8           | 6.85              | 0.42                          | 0.57 | 0.71   | 131.2           | 7.73              | 0.42                          | 0.58 | 0.73 |
|                               | 9600             | 161.6                                         | 5.39              | 0.44                          | 0.59 | 0.73   | 153.2           | 6.11              | 0.44                          | 0.60 | 0.75   | 144.7           | 6.90              | 0.44                          | 0.61 | 0.76   | 135.7           | 7.77              | 0.44                          | 0.62 | 0.78 |

### 20 TON HIGH EFFICIENCY LGH240H4B (2ND STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 85°F                                          |                   |                               |      |       | 95°F            |                   |                               |      |       | 105°F           |                   |                               |      |       | 115°F           |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |      |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F |
| cfm                           | kBtuh            | kW                                            | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F |      |
| 63°F                          | 6400             | 236.6                                         | 13.31             | 0.73                          | 0.88 | 1.00  | 221.6           | 15.06             | 0.74                          | 0.91 | 1.00  | 205.8           | 17.06             | 0.76                          | 0.94 | 1.00  | 189.2           | 19.35             | 0.78                          | 0.97 | 1.00 |
|                               | 8000             | 249.2                                         | 13.43             | 0.79                          | 0.97 | 1.00  | 233.7           | 15.17             | 0.80                          | 0.98 | 1.00  | 217.5           | 17.17             | 0.83                          | 0.99 | 1.00  | 201.1           | 19.47             | 0.86                          | 1.00 | 1.00 |
|                               | 9600             | 260.1                                         | 13.53             | 0.85                          | 1.00 | 1.00  | 244.7           | 15.28             | 0.87                          | 1.00 | 1.00  | 228.9           | 17.29             | 0.90                          | 1.00 | 1.00  | 212.1           | 19.59             | 0.94                          | 1.00 | 1.00 |
| 67°F                          | 6400             | 252.7                                         | 13.46             | 0.56                          | 0.71 | 0.85  | 236.8           | 15.20             | 0.57                          | 0.72 | 0.87  | 220.0           | 17.20             | 0.57                          | 0.73 | 0.90  | 202.2           | 19.48             | 0.58                          | 0.76 | 0.93 |
|                               | 8000             | 264.4                                         | 13.57             | 0.60                          | 0.77 | 0.93  | 247.3           | 15.31             | 0.61                          | 0.78 | 0.96  | 229.6           | 17.30             | 0.62                          | 0.81 | 0.98  | 210.9           | 19.57             | 0.63                          | 0.84 | 0.99 |
|                               | 9600             | 272.8                                         | 13.66             | 0.64                          | 0.83 | 0.99  | 255.3           | 15.39             | 0.64                          | 0.85 | 1.00  | 236.8           | 17.38             | 0.65                          | 0.88 | 1.00  | 217.9           | 19.65             | 0.67                          | 0.92 | 1.00 |
| 71°F                          | 6400             | 269.2                                         | 13.62             | 0.41                          | 0.55 | 0.68  | 252.6           | 15.37             | 0.41                          | 0.56 | 0.70  | 235.2           | 17.36             | 0.41                          | 0.56 | 0.71  | 216.6           | 19.64             | 0.40                          | 0.57 | 0.73 |
|                               | 8000             | 281.5                                         | 13.75             | 0.43                          | 0.59 | 0.74  | 263.7           | 15.49             | 0.43                          | 0.60 | 0.76  | 245.0           | 17.48             | 0.43                          | 0.61 | 0.78  | 225.2           | 19.74             | 0.42                          | 0.62 | 0.81 |
|                               | 9600             | 289.9                                         | 13.83             | 0.45                          | 0.63 | 0.81  | 271.3           | 15.57             | 0.45                          | 0.64 | 0.83  | 252.0           | 17.55             | 0.45                          | 0.65 | 0.86  | 231.3           | 19.81             | 0.44                          | 0.67 | 0.89 |

## RATINGS

NOTE – For Temperatures and Capacities not shown in tables, see bulletin – Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 25 TON STANDARD EFFICIENCY LGH300S4B (1ST STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |      |       |                 |                   |                               |      |       |      |                 |                   |                               |       |      |      |                 |                   |                               |      |      |  |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|------|-------|-----------------|-------------------|-------------------------------|------|-------|------|-----------------|-------------------|-------------------------------|-------|------|------|-----------------|-------------------|-------------------------------|------|------|--|
|                               |                  | 65°F                                          |                   |                               |      |      |       | 75°F            |                   |                               |      |       |      | 85°F            |                   |                               |       |      |      | 95°F            |                   |                               |      |      |  |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |       |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |  |
|                               |                  |                                               |                   | Dry Bulb                      |      |      |       |                 |                   | Dry Bulb                      |      |       |      |                 |                   | Dry Bulb                      |       |      |      |                 |                   | Dry Bulb                      |      |      |  |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F |       |                 |                   | 75°F                          | 80°F | 85°F  |      |                 |                   | 75°F                          | 80°F  | 85°F |      |                 |                   | 75°F                          | 80°F | 85°F |  |
| 63°F                          | cfm              | kBtuh                                         | kW                | 75°F                          | 80°F | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW   | 75°F            | 80°F              | 85°F                          | kBtuh | kW   | 75°F | 80°F            | 85°F              |                               |      |      |  |
|                               | 8000             | 147.3                                         | 6.36              | 0.70                          | 0.82 | 0.95 | 140.6 | 7.18            | 0.71              | 0.84                          | 0.97 | 134.8 | 8.10 | 0.72            | 0.86              | 0.99                          | 129.1 | 9.16 | 0.73 | 0.88            | 1.00              |                               |      |      |  |
|                               | 9500             | 152.7                                         | 6.41              | 0.73                          | 0.87 | 0.99 | 145.9 | 7.24            | 0.74              | 0.90                          | 1.00 | 140.0 | 8.16 | 0.75            | 0.92              | 1.00                          | 133.8 | 9.22 | 0.77 | 0.94            | 1.00              |                               |      |      |  |
| 67°F                          | 11000            | 157.6                                         | 6.47              | 0.75                          | 0.92 | 1.00 | 150.5 | 7.29            | 0.78              | 0.95                          | 1.00 | 144.1 | 8.22 | 0.80            | 0.97              | 1.00                          | 137.6 | 9.27 | 0.82 | 0.98            | 1.00              |                               |      |      |  |
|                               | 8000             | 156.1                                         | 6.45              | 0.55                          | 0.67 | 0.79 | 149.2 | 7.27            | 0.56              | 0.68                          | 0.81 | 142.8 | 8.20 | 0.57            | 0.70              | 0.83                          | 136.3 | 9.25 | 0.57 | 0.70            | 0.84              |                               |      |      |  |
|                               | 9500             | 161.6                                         | 6.51              | 0.57                          | 0.70 | 0.84 | 154.0 | 7.33            | 0.58              | 0.71                          | 0.86 | 147.3 | 8.26 | 0.59            | 0.73              | 0.88                          | 140.8 | 9.31 | 0.60 | 0.75            | 0.91              |                               |      |      |  |
| 71°F                          | 11000            | 165.6                                         | 6.55              | 0.59                          | 0.73 | 0.89 | 158.2 | 7.38            | 0.60              | 0.76                          | 0.92 | 151.1 | 8.31 | 0.61            | 0.77              | 0.94                          | 144.2 | 9.37 | 0.63 | 0.79            | 0.96              |                               |      |      |  |
|                               | 8000             | 165.2                                         | 6.55              | 0.42                          | 0.54 | 0.65 | 157.7 | 7.38            | 0.42              | 0.54                          | 0.66 | 151.1 | 8.31 | 0.42            | 0.55              | 0.67                          | 144.2 | 9.37 | 0.43 | 0.56            | 0.69              |                               |      |      |  |
|                               | 9500             | 170.7                                         | 6.61              | 0.43                          | 0.56 | 0.68 | 162.8 | 7.44            | 0.43              | 0.57                          | 0.70 | 155.4 | 8.37 | 0.44            | 0.57              | 0.71                          | 148.2 | 9.42 | 0.44 | 0.58            | 0.72              |                               |      |      |  |
|                               | 11000            | 174.8                                         | 6.66              | 0.44                          | 0.58 | 0.71 | 166.6 | 7.49            | 0.45              | 0.59                          | 0.73 | 159.1 | 8.42 | 0.44            | 0.60              | 0.75                          | 151.8 | 9.47 | 0.45 | 0.61            | 0.77              |                               |      |      |  |

### 25 TON STANDARD EFFICIENCY LGH300S4B (2ND STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 85°F                                          |                   |                               |      |       | 95°F            |                   |                               |      |       | 105°F           |                   |                               |      |       | 115°F           |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |      |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F |
| cfm                           | kBtuh            | kW                                            | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F |      |
| 63°F                          | 8000             | 277.2                                         | 17.80             | 0.72                          | 0.87 | 1.00  | 264.6           | 19.95             | 0.74                          | 0.89 | 1.00  | 251.7           | 22.43             | 0.75                          | 0.92 | 1.00  | 238.5           | 25.35             | 0.78                          | 0.95 | 1.00 |
|                               | 9500             | 287.2                                         | 17.97             | 0.76                          | 0.93 | 1.00  | 273.8           | 20.12             | 0.78                          | 0.96 | 1.00  | 260.1           | 22.59             | 0.80                          | 0.98 | 1.00  | 246.0           | 25.49             | 0.83                          | 1.00 | 1.00 |
|                               | 11000            | 295.0                                         | 18.11             | 0.80                          | 0.98 | 1.00  | 280.6           | 20.25             | 0.83                          | 1.00 | 1.00  | 267.4           | 22.73             | 0.85                          | 1.00 | 1.00  | 254.5           | 25.68             | 0.88                          | 1.00 | 1.00 |
| 67°F                          | 8000             | 293.2                                         | 18.08             | 0.57                          | 0.70 | 0.83  | 279.6           | 20.23             | 0.58                          | 0.71 | 0.86  | 265.8           | 22.71             | 0.59                          | 0.73 | 0.88  | 251.7           | 25.63             | 0.60                          | 0.75 | 0.91 |
|                               | 9500             | 302.9                                         | 18.25             | 0.59                          | 0.74 | 0.89  | 288.4           | 20.39             | 0.60                          | 0.76 | 0.92  | 273.9           | 22.86             | 0.62                          | 0.78 | 0.95  | 258.8           | 25.78             | 0.63                          | 0.80 | 0.98 |
|                               | 11000            | 310.1                                         | 18.38             | 0.62                          | 0.78 | 0.95  | 295.3           | 20.52             | 0.63                          | 0.80 | 0.98  | 279.9           | 22.99             | 0.64                          | 0.83 | 1.00  | 264.5           | 25.89             | 0.65                          | 0.85 | 1.00 |
| 71°F                          | 8000             | 310.0                                         | 18.38             | 0.43                          | 0.56 | 0.68  | 295.5           | 20.53             | 0.43                          | 0.57 | 0.69  | 280.6           | 23.00             | 0.43                          | 0.58 | 0.71  | 265.8           | 25.92             | 0.44                          | 0.59 | 0.73 |
|                               | 9500             | 319.0                                         | 18.54             | 0.44                          | 0.58 | 0.72  | 304.0           | 20.68             | 0.44                          | 0.59 | 0.74  | 288.9           | 23.17             | 0.45                          | 0.61 | 0.75  | 273.0           | 26.07             | 0.45                          | 0.62 | 0.78 |
|                               | 11000            | 326.9                                         | 18.68             | 0.44                          | 0.61 | 0.76  | 311.2           | 20.82             | 0.45                          | 0.62 | 0.78  | 294.9           | 23.29             | 0.46                          | 0.63 | 0.80  | 278.5           | 26.19             | 0.47                          | 0.65 | 0.83 |

## RATINGS

NOTE – For Temperatures and Capacities not shown in tables, see bulletin – Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 13 TON HIGH EFFICIENCY LGH156H4V (1 COMPRESSOR OPERATING) - VARIABLE AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |       |      |                 |                   |                               |      |      |                 |                   |                               |      |      |                 |                   |                               |      |       |    |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|-------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|-------|----|
|                               |                  | 65°F                                          |                   |                               |       |      |                 | 75°F              |                               |      |      |                 | 85°F              |                               |      |      |                 | 95°F              |                               |      |       |    |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |       |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       |    |
|                               |                  |                                               |                   | Dry Bulb                      |       |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |       |    |
|                               |                  |                                               |                   | cfm                           | kBtuh | kW   |                 |                   | 75°F                          | 80°F | 85°F |                 |                   | kBtuh                         | kW   | 75°F |                 |                   | 80°F                          | 85°F | kBtuh | kW |
| 63°F                          | 1500             | 51.8                                          | 2.25              | 0.74                          | 0.87  | 0.96 | 49.5            | 2.58              | 0.74                          | 0.88 | 0.96 | 46.9            | 2.93              | 0.75                          | 0.89 | 0.97 | 44.3            | 3.33              | 0.76                          | 0.9  | 0.98  |    |
|                               | 1800             | 54.2                                          | 2.25              | 0.77                          | 0.9   | 0.98 | 51.7            | 2.59              | 0.78                          | 0.91 | 0.99 | 49.1            | 2.95              | 0.79                          | 0.92 | 1    | 46.3            | 3.34              | 0.79                          | 0.93 | 1     |    |
|                               | 2100             | 56.1                                          | 2.26              | 0.8                           | 0.93  | 1    | 53.5            | 2.6               | 0.8                           | 0.94 | 1    | 50.8            | 2.96              | 0.81                          | 0.95 | 1    | 47.9            | 3.35              | 0.83                          | 0.96 | 1     |    |
| 67°F                          | 1500             | 54.3                                          | 2.25              | 0.49                          | 0.69  | 0.83 | 51.9            | 2.59              | 0.49                          | 0.69 | 0.84 | 49.4            | 2.95              | 0.48                          | 0.7  | 0.85 | 46.6            | 3.34              | 0.48                          | 0.71 | 0.87  |    |
|                               | 1800             | 56.8                                          | 2.26              | 0.51                          | 0.73  | 0.87 | 54.2            | 2.6               | 0.51                          | 0.73 | 0.88 | 51.4            | 2.96              | 0.5                           | 0.75 | 0.89 | 48.5            | 3.35              | 0.51                          | 0.76 | 0.9   |    |
|                               | 2100             | 58.7                                          | 2.27              | 0.53                          | 0.76  | 0.9  | 56              | 2.61              | 0.53                          | 0.77 | 0.91 | 53.2            | 2.97              | 0.53                          | 0.78 | 0.92 | 50.2            | 3.36              | 0.53                          | 0.79 | 0.94  |    |
| 71°F                          | 1500             | 57.1                                          | 2.26              | 0.25                          | 0.45  | 0.64 | 54.5            | 2.6               | 0.24                          | 0.45 | 0.64 | 51.9            | 2.96              | 0.22                          | 0.44 | 0.65 | 49              | 3.36              | 0.21                          | 0.44 | 0.66  |    |
|                               | 1800             | 59.5                                          | 2.27              | 0.24                          | 0.47  | 0.68 | 56.9            | 2.61              | 0.23                          | 0.47 | 0.68 | 54              | 2.97              | 0.22                          | 0.47 | 0.69 | 51.1            | 3.37              | 0.21                          | 0.47 | 0.72  |    |
|                               | 2100             | 61.4                                          | 2.28              | 0.24                          | 0.49  | 0.71 | 58.7            | 2.62              | 0.23                          | 0.49 | 0.73 | 55.7            | 2.98              | 0.22                          | 0.5  | 0.74 | 52.6            | 3.38              | 0.21                          | 0.5  | 0.76  |    |

### 13 TON HIGH EFFICIENCY LGH156H4V (2 COMPRESSORS OPERATING) - VARIABLE AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |       |      |                 |                   |                               |      |      |                 |                   |                               |      |      |                 |                   |                               |      |       |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|-------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|-------|
|                               |                  | 65°F                                          |                   |                               |       |      | 75°F            |                   |                               |      |      | 85°F            |                   |                               |      |      | 95°F            |                   |                               |      |       |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |       |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       |
|                               |                  |                                               |                   | Dry Bulb                      |       |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |       |
|                               |                  |                                               |                   | cfm                           | kBtuh | kW   |                 |                   | 75°F                          | 80°F | 85°F |                 |                   | kBtuh                         | kW   | 75°F |                 |                   | 80°F                          | 85°F | kBtuh |
| 63°F                          | 3000             | 108.4                                         | 4.56              | 0.72                          | 0.85  | 0.96 | 103.3           | 5.23              | 0.72                          | 0.86 | 0.98 | 97.8            | 5.95              | 0.73                          | 0.88 | 0.99 | 91.9            | 6.75              | 0.74                          | 0.89 | 0.99  |
|                               | 3500             | 112.5                                         | 4.58              | 0.75                          | 0.89  | 0.99 | 107             | 5.25              | 0.75                          | 0.9  | 1    | 101             | 5.97              | 0.76                          | 0.92 | 1    | 95.2            | 6.77              | 0.78                          | 0.94 | 1     |
|                               | 4000             | 115.7                                         | 4.6               | 0.77                          | 0.93  | 1    | 110.2           | 5.26              | 0.79                          | 0.94 | 1    | 104.5           | 5.99              | 0.8                           | 0.96 | 1    | 98.5            | 6.79              | 0.81                          | 0.98 | 1     |
| 67°F                          | 3000             | 114.4                                         | 4.59              | 0.57                          | 0.7   | 0.82 | 109.1           | 5.26              | 0.57                          | 0.7  | 0.83 | 103.6           | 5.98              | 0.58                          | 0.71 | 0.84 | 97.6            | 6.78              | 0.58                          | 0.72 | 0.86  |
|                               | 3500             | 119                                           | 4.61              | 0.59                          | 0.73  | 0.86 | 113.4           | 5.28              | 0.59                          | 0.74 | 0.87 | 107.5           | 6.01              | 0.6                           | 0.75 | 0.89 | 101.2           | 6.81              | 0.6                           | 0.76 | 0.91  |
|                               | 4000             | 122.6                                         | 4.63              | 0.61                          | 0.75  | 0.9  | 116.8           | 5.3               | 0.61                          | 0.76 | 0.92 | 110.6           | 6.03              | 0.62                          | 0.78 | 0.93 | 104             | 6.83              | 0.62                          | 0.8  | 0.95  |
| 71°F                          | 3000             | 120                                           | 4.61              | 0.44                          | 0.56  | 0.68 | 114.6           | 5.29              | 0.43                          | 0.56 | 0.68 | 108.9           | 6.01              | 0.43                          | 0.56 | 0.69 | 102.7           | 6.82              | 0.42                          | 0.57 | 0.7   |
|                               | 3500             | 125                                           | 4.64              | 0.44                          | 0.58  | 0.7  | 119.1           | 5.31              | 0.44                          | 0.58 | 0.71 | 113             | 6.04              | 0.44                          | 0.58 | 0.72 | 106.7           | 6.85              | 0.44                          | 0.59 | 0.74  |
|                               | 4000             | 128.8                                         | 4.65              | 0.45                          | 0.59  | 0.73 | 122.8           | 5.33              | 0.45                          | 0.6  | 0.74 | 116.4           | 6.06              | 0.45                          | 0.61 | 0.76 | 109.7           | 6.86              | 0.45                          | 0.62 | 0.77  |

### 13 TON HIGH EFFICIENCY LGH156H4V (3 COMPRESSORS OPERATING) - VARIABLE AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |       |      |                 |                   |                               |      |      |                 |                   |                               |      |      |                 |                   |                               |      |       |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|-------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|-------|
|                               |                  | 85°F                                          |                   |                               |       |      | 95°F            |                   |                               |      |      | 105°F           |                   |                               |      |      | 115°F           |                   |                               |      |       |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |       |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       |
|                               |                  |                                               |                   | Dry Bulb                      |       |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |       |
|                               |                  |                                               |                   | cfm                           | kBtuh | kW   |                 |                   | 75°F                          | 80°F | 85°F |                 |                   | kBtuh                         | kW   | 75°F |                 |                   | 80°F                          | 85°F | kBtuh |
| 63°F                          | 4160             | 151.8                                         | 9.02              | 0.72                          | 0.84  | 0.95 | 143.1           | 10.22             | 0.72                          | 0.85 | 0.97 | 133.7           | 11.57             | 0.74                          | 0.87 | 0.99 | 123.6           | 13.1              | 0.75                          | 0.89 | 1     |
|                               | 5200             | 159.9                                         | 9.07              | 0.77                          | 0.9   | 1    | 150.4           | 10.28             | 0.78                          | 0.92 | 1    | 140.4           | 11.62             | 0.79                          | 0.94 | 1    | 130.1           | 13.15             | 0.81                          | 0.97 | 1     |
|                               | 6240             | 166                                           | 9.1               | 0.81                          | 0.96  | 1    | 156.6           | 10.32             | 0.83                          | 0.98 | 1    | 146.6           | 11.67             | 0.84                          | 0.99 | 1    | 136.2           | 13.2              | 0.87                          | 1    | 1     |
| 67°F                          | 4160             | 158.6                                         | 9.05              | 0.56                          | 0.7   | 0.81 | 149.2           | 10.26             | 0.56                          | 0.71 | 0.82 | 139.5           | 11.61             | 0.57                          | 0.71 | 0.84 | 129.3           | 13.15             | 0.58                          | 0.73 | 0.86  |
|                               | 5200             | 166.6                                         | 9.1               | 0.59                          | 0.74  | 0.87 | 157.1           | 10.32             | 0.59                          | 0.75 | 0.89 | 146.9           | 11.67             | 0.62                          | 0.77 | 0.91 | 135.9           | 13.2              | 0.63                          | 0.79 | 0.94  |
|                               | 6240             | 172.9                                         | 9.14              | 0.62                          | 0.79  | 0.93 | 162.9           | 10.36             | 0.64                          | 0.8  | 0.95 | 152.2           | 11.71             | 0.64                          | 0.82 | 0.98 | 140.6           | 13.24             | 0.66                          | 0.84 | 0.99  |
| 71°F                          | 4160             | 167.9                                         | 9.11              | 0.42                          | 0.55  | 0.68 | 158.5           | 10.33             | 0.42                          | 0.56 | 0.68 | 147.9           | 11.68             | 0.41                          | 0.55 | 0.7  | 136.8           | 13.2              | 0.41                          | 0.56 | 0.71  |
|                               | 5200             | 175.8                                         | 9.16              | 0.44                          | 0.59  | 0.72 | 165.6           | 10.37             | 0.44                          | 0.59 | 0.74 | 154.7           | 11.73             | 0.43                          | 0.6  | 0.76 | 142.8           | 13.25             | 0.43                          | 0.61 | 0.77  |
|                               | 6240             | 181.9                                         | 9.2               | 0.46                          | 0.62  | 0.77 | 170.8           | 10.41             | 0.46                          | 0.63 | 0.79 | 159.5           | 11.77             | 0.45                          | 0.64 | 0.81 | 147.1           | 13.29             | 0.45                          | 0.65 | 0.83  |

## RATINGS

NOTE – For Temperatures and Capacities not shown in tables, see bulletin – Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 15 TON HIGH EFFICIENCY LGH180H4V (1 COMPRESSOR OPERATING) - VARIABLE AIR VOLUME

| Entering<br>Wet Bulb<br>Temperature | Total<br>Air<br>Volume | Outdoor Air Temperature Entering Outdoor Coil |                         |                                  |      |        |                       |                         |                                  |      |        |                       |                         |                                  |      |        |                       |                         |                                  |      |      |
|-------------------------------------|------------------------|-----------------------------------------------|-------------------------|----------------------------------|------|--------|-----------------------|-------------------------|----------------------------------|------|--------|-----------------------|-------------------------|----------------------------------|------|--------|-----------------------|-------------------------|----------------------------------|------|------|
|                                     |                        | 65°F                                          |                         |                                  |      |        | 75°F                  |                         |                                  |      |        | 85°F                  |                         |                                  |      |        | 95°F                  |                         |                                  |      |      |
|                                     |                        | Total<br>Cool<br>Cap.                         | Comp.<br>Motor<br>Input | Sensible To Total<br>Ratio (S/T) |      |        | Total<br>Cool<br>Cap. | Comp.<br>Motor<br>Input | Sensible To Total<br>Ratio (S/T) |      |        | Total<br>Cool<br>Cap. | Comp.<br>Motor<br>Input | Sensible To Total<br>Ratio (S/T) |      |        | Total<br>Cool<br>Cap. | Comp.<br>Motor<br>Input | Sensible To Total<br>Ratio (S/T) |      |      |
|                                     |                        |                                               |                         | Dry Bulb                         |      |        |                       |                         | Dry Bulb                         |      |        |                       |                         | Dry Bulb                         |      |        |                       |                         | Dry Bulb                         |      |      |
|                                     |                        |                                               |                         | 75°F                             | 80°F | 85°F   |                       |                         | 75°F                             | 80°F | 85°F   |                       |                         | 75°F                             | 80°F | 85°F   |                       |                         | 75°F                             | 80°F | 85°F |
| cfm                                 | kBtu/h                 | kW                                            |                         |                                  |      | kBtu/h | kW                    |                         |                                  |      | kBtu/h | kW                    |                         |                                  |      | kBtu/h | kW                    |                         |                                  |      |      |
| 63°F                                | 1600                   | 58.6                                          | 2.51                    | 0.58                             | 0.73 | 0.87   | 55.8                  | 2.87                    | 0.59                             | 0.74 | 0.89   | 52.7                  | 3.25                    | 0.59                             | 0.75 | 0.9    | 49.5                  | 3.67                    | 0.59                             | 0.77 | 0.93 |
|                                     | 2000                   | 62.3                                          | 2.53                    | 0.62                             | 0.78 | 0.93   | 59.2                  | 2.89                    | 0.62                             | 0.79 | 0.95   | 55.9                  | 3.27                    | 0.63                             | 0.81 | 0.97   | 52.4                  | 3.68                    | 0.64                             | 0.83 | 0.99 |
|                                     | 2400                   | 65                                            | 2.55                    | 0.64                             | 0.83 | 0.98   | 61.7                  | 2.9                     | 0.65                             | 0.85 | 0.99   | 58.3                  | 3.28                    | 0.67                             | 0.87 | 1      | 54.7                  | 3.7                     | 0.68                             | 0.89 | 1    |
| 67°F                                | 1600                   | 61.7                                          | 2.53                    | 0.39                             | 0.54 | 0.68   | 58.7                  | 2.88                    | 0.39                             | 0.55 | 0.69   | 55.6                  | 3.26                    | 0.38                             | 0.55 | 0.7    | 52.2                  | 3.68                    | 0.37                             | 0.55 | 0.72 |
|                                     | 2000                   | 65.3                                          | 2.55                    | 0.4                              | 0.58 | 0.73   | 62.1                  | 2.91                    | 0.4                              | 0.58 | 0.75   | 58.8                  | 3.28                    | 0.4                              | 0.59 | 0.77   | 55.2                  | 3.7                     | 0.39                             | 0.6  | 0.78 |
|                                     | 2400                   | 68.1                                          | 2.57                    | 0.42                             | 0.61 | 0.78   | 64.7                  | 2.92                    | 0.42                             | 0.62 | 0.8    | 61.2                  | 3.3                     | 0.42                             | 0.63 | 0.82   | 57.4                  | 3.71                    | 0.42                             | 0.64 | 0.84 |
| 71°F                                | 1600                   | 64.9                                          | 2.55                    | 0.2                              | 0.36 | 0.5    | 61.8                  | 2.9                     | 0.19                             | 0.35 | 0.5    | 58.6                  | 3.28                    | 0.18                             | 0.35 | 0.51   | 55.2                  | 3.7                     | 0.16                             | 0.34 | 0.51 |
|                                     | 2000                   | 68.5                                          | 2.57                    | 0.2                              | 0.37 | 0.53   | 65.3                  | 2.92                    | 0.18                             | 0.37 | 0.54   | 61.9                  | 3.3                     | 0.17                             | 0.37 | 0.54   | 58.2                  | 3.71                    | 0.16                             | 0.36 | 0.56 |
|                                     | 2400                   | 71.3                                          | 2.59                    | 0.19                             | 0.39 | 0.57   | 67.9                  | 2.94                    | 0.19                             | 0.39 | 0.58   | 64.3                  | 3.32                    | 0.17                             | 0.39 | 0.59   | 60.5                  | 3.73                    | 0.16                             | 0.39 | 0.61 |

### 15 TON HIGH EFFICIENCY LGH180H4V (2 COMPRESSORS OPERATING) - VARIABLE AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 65°F                                          |                   |                               |      |       | 75°F            |                   |                               |      |       | 85°F            |                   |                               |      |       | 95°F            |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |      |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F |
| cfm                           | kBtuh            | kW                                            | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F |      |
| 63°F                          | 3200             | 124.3                                         | 5.08              | 0.7                           | 0.82 | 0.94  | 117.9           | 5.79              | 0.71                          | 0.83 | 0.95  | 111.2           | 6.55              | 0.71                          | 0.85 | 0.97  | 104.2           | 7.38              | 0.72                          | 0.86 | 0.98 |
|                               | 4000             | 131.8                                         | 5.13              | 0.74                          | 0.87 | 0.99  | 125             | 5.83              | 0.75                          | 0.89 | 0.99  | 117.8           | 6.59              | 0.76                          | 0.91 | 1     | 110.2           | 7.42              | 0.77                          | 0.93 | 1    |
|                               | 4800             | 137.2                                         | 5.16              | 0.78                          | 0.93 | 1     | 130.1           | 5.86              | 0.79                          | 0.94 | 1     | 122.9           | 6.62              | 0.8                           | 0.96 | 1     | 115.5           | 7.45              | 0.81                          | 0.98 | 1    |
| 67°F                          | 3200             | 131.5                                         | 5.13              | 0.56                          | 0.68 | 0.79  | 124.9           | 5.83              | 0.56                          | 0.68 | 0.8   | 118.2           | 6.59              | 0.56                          | 0.69 | 0.81  | 111.1           | 7.42              | 0.56                          | 0.7  | 0.83 |
|                               | 4000             | 139.8                                         | 5.18              | 0.58                          | 0.72 | 0.84  | 132.7           | 5.88              | 0.59                          | 0.73 | 0.86  | 125.3           | 6.63              | 0.59                          | 0.74 | 0.88  | 117.7           | 7.47              | 0.59                          | 0.75 | 0.9  |
|                               | 4800             | 145.6                                         | 5.22              | 0.61                          | 0.76 | 0.9   | 138.3           | 5.92              | 0.61                          | 0.77 | 0.91  | 130.6           | 6.67              | 0.62                          | 0.78 | 0.93  | 122.5           | 7.5               | 0.62                          | 0.8  | 0.96 |
| 71°F                          | 3200             | 138                                           | 5.16              | 0.43                          | 0.55 | 0.66  | 131.5           | 5.87              | 0.43                          | 0.55 | 0.66  | 124.5           | 6.63              | 0.42                          | 0.55 | 0.67  | 117.2           | 7.46              | 0.42                          | 0.55 | 0.68 |
|                               | 4000             | 146.8                                         | 5.22              | 0.44                          | 0.57 | 0.69  | 139.7           | 5.93              | 0.43                          | 0.58 | 0.71  | 132.2           | 6.68              | 0.44                          | 0.58 | 0.72  | 124.3           | 7.51              | 0.43                          | 0.58 | 0.73 |
|                               | 4800             | 153.2                                         | 5.27              | 0.45                          | 0.6  | 0.73  | 145.7           | 5.97              | 0.45                          | 0.6  | 0.75  | 137.9           | 6.72              | 0.44                          | 0.61 | 0.76  | 129.7           | 7.55              | 0.44                          | 0.61 | 0.77 |

### 15 TON HIGH EFFICIENCY LGH180H4V (3 COMPRESSORS OPERATING) - VARIABLE AIR VOLUME

| Entering<br>Wet Bulb<br>Temperature | Total<br>Air<br>Volume | Outdoor Air Temperature Entering Outdoor Coil |                         |                                  |      |        |                       |                         |                                  |      |        |                       |                         |                                  |      |        |                       |                         |                                  |      |      |
|-------------------------------------|------------------------|-----------------------------------------------|-------------------------|----------------------------------|------|--------|-----------------------|-------------------------|----------------------------------|------|--------|-----------------------|-------------------------|----------------------------------|------|--------|-----------------------|-------------------------|----------------------------------|------|------|
|                                     |                        | 85°F                                          |                         |                                  |      |        | 95°F                  |                         |                                  |      |        | 105°F                 |                         |                                  |      |        | 115°F                 |                         |                                  |      |      |
|                                     |                        | Total<br>Cool<br>Cap.                         | Comp.<br>Motor<br>Input | Sensible To Total<br>Ratio (S/T) |      |        | Total<br>Cool<br>Cap. | Comp.<br>Motor<br>Input | Sensible To Total<br>Ratio (S/T) |      |        | Total<br>Cool<br>Cap. | Comp.<br>Motor<br>Input | Sensible To Total<br>Ratio (S/T) |      |        | Total<br>Cool<br>Cap. | Comp.<br>Motor<br>Input | Sensible To Total<br>Ratio (S/T) |      |      |
|                                     |                        |                                               |                         | Dry Bulb                         |      |        |                       |                         | Dry Bulb                         |      |        |                       |                         | Dry Bulb                         |      |        |                       |                         | Dry Bulb                         |      |      |
|                                     |                        |                                               |                         |                                  |      |        |                       |                         |                                  |      |        |                       |                         |                                  |      |        |                       |                         |                                  |      |      |
| cfm                                 | kBtu/h                 | kW                                            | 75°F                    | 80°F                             | 85°F | kBtu/h | kW                    | 75°F                    | 80°F                             | 85°F | kBtu/h | kW                    | 75°F                    | 80°F                             | 85°F | kBtu/h | kW                    | 75°F                    | 80°F                             | 85°F |      |
| 63°F                                | 4800                   | 176.3                                         | 9.9                     | 0.72                             | 0.83 | 0.95   | 165.8                 | 11.16                   | 0.72                             | 0.85 | 0.96   | 154.7                 | 12.56                   | 0.73                             | 0.86 | 0.98   | 142.9                 | 14.15                   | 0.74                             | 0.88 | 0.99 |
|                                     | 6000                   | 186.7                                         | 9.96                    | 0.76                             | 0.89 | 0.99   | 175.2                 | 11.21                   | 0.77                             | 0.91 | 1      | 163.4                 | 12.62                   | 0.79                             | 0.93 | 1      | 151.1                 | 14.22                   | 0.8                              | 0.96 | 1    |
|                                     | 7200                   | 193.9                                         | 10.01                   | 0.8                              | 0.95 | 1      | 182.5                 | 11.26                   | 0.82                             | 0.97 | 1      | 170.8                 | 12.67                   | 0.83                             | 0.99 | 1      | 158.6                 | 14.27                   | 0.86                             | 1    | 1    |
| 67°F                                | 4800                   | 185.5                                         | 9.96                    | 0.55                             | 0.69 | 0.8    | 174.1                 | 11.2                    | 0.55                             | 0.7  | 0.82   | 162.3                 | 12.61                   | 0.57                             | 0.71 | 0.83   | 150                   | 14.21                   | 0.57                             | 0.73 | 0.85 |
|                                     | 6000                   | 195.1                                         | 10.01                   | 0.59                             | 0.74 | 0.86   | 183.2                 | 11.26                   | 0.6                              | 0.74 | 0.88   | 171.2                 | 12.67                   | 0.59                             | 0.76 | 0.9    | 158.6                 | 14.26                   | 0.61                             | 0.78 | 0.93 |
|                                     | 7200                   | 202.7                                         | 10.06                   | 0.62                             | 0.78 | 0.92   | 190.7                 | 11.32                   | 0.62                             | 0.79 | 0.94   | 178.1                 | 12.72                   | 0.64                             | 0.81 | 0.96   | 164.7                 | 14.3                    | 0.64                             | 0.83 | 0.99 |
| 71°F                                | 4800                   | 197                                           | 10.03                   | 0.42                             | 0.55 | 0.67   | 185.4                 | 11.28                   | 0.42                             | 0.54 | 0.67   | 173.3                 | 12.68                   | 0.42                             | 0.54 | 0.69   | 160.4                 | 14.27                   | 0.41                             | 0.55 | 0.7  |
|                                     | 6000                   | 207.2                                         | 10.09                   | 0.43                             | 0.57 | 0.71   | 194.6                 | 11.34                   | 0.44                             | 0.59 | 0.73   | 181.8                 | 12.74                   | 0.43                             | 0.6  | 0.74   | 168.5                 | 14.34                   | 0.43                             | 0.6  | 0.76 |
|                                     | 7200                   | 214.6                                         | 10.14                   | 0.45                             | 0.6  | 0.76   | 201.4                 | 11.39                   | 0.46                             | 0.62 | 0.78   | 188.3                 | 12.79                   | 0.45                             | 0.62 | 0.79   | 174.1                 | 14.38                   | 0.44                             | 0.64 | 0.81 |

## RATINGS

NOTE – For Temperatures and Capacities not shown in tables, see bulletin – Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 20 TON HIGH EFFICIENCY LGH240H4V (1 COMPRESSOR OPERATING) - VARIABLE AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 65°F                                          |                   |                               |      |       | 75°F            |                   |                               |      |       | 85°F            |                   |                               |      |       | 95°F            |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |      |
|                               |                  |                                               |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |      |
| cfm                           | kBtuh            | kW                                            | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F |      |
| 63°F                          | 1600             | 58.5                                          | 2.59              | 0.59                          | 0.74 | 0.87  | 56              | 2.96              | 0.6                           | 0.75 | 0.89  | 53.3            | 3.36              | 0.6                           | 0.76 | 0.91  | 50.4            | 3.79              | 0.61                          | 0.78 | 0.93 |
|                               | 2000             | 62                                            | 2.59              | 0.62                          | 0.79 | 0.93  | 59.3            | 2.97              | 0.63                          | 0.8  | 0.95  | 56.5            | 3.36              | 0.64                          | 0.82 | 0.96  | 53.4            | 3.79              | 0.65                          | 0.84 | 0.98 |
|                               | 2400             | 64.6                                          | 2.6               | 0.66                          | 0.83 | 0.97  | 61.9            | 2.98              | 0.66                          | 0.85 | 0.99  | 58.9            | 3.37              | 0.68                          | 0.87 | 1     | 55.7            | 3.81              | 0.69                          | 0.89 | 1    |
| 67°F                          | 1600             | 61.3                                          | 2.59              | 0.4                           | 0.55 | 0.69  | 58.7            | 2.96              | 0.39                          | 0.55 | 0.7   | 56              | 3.36              | 0.39                          | 0.56 | 0.71  | 53.1            | 3.8               | 0.39                          | 0.57 | 0.73 |
|                               | 2000             | 64.8                                          | 2.61              | 0.41                          | 0.58 | 0.74  | 62.1            | 2.97              | 0.41                          | 0.59 | 0.75  | 59.2            | 3.37              | 0.41                          | 0.6  | 0.77  | 56.1            | 3.81              | 0.41                          | 0.61 | 0.79 |
|                               | 2400             | 67.6                                          | 2.62              | 0.43                          | 0.62 | 0.78  | 64.7            | 2.98              | 0.43                          | 0.62 | 0.8   | 61.6            | 3.38              | 0.43                          | 0.64 | 0.82  | 58.3            | 3.81              | 0.43                          | 0.65 | 0.84 |
| 71°F                          | 1600             | 64.3                                          | 2.6               | 0.21                          | 0.36 | 0.51  | 61.6            | 2.97              | 0.2                           | 0.36 | 0.51  | 58.8            | 3.36              | 0.19                          | 0.36 | 0.52  | 55.9            | 3.8               | 0.18                          | 0.36 | 0.52 |
|                               | 2000             | 67.9                                          | 2.61              | 0.2                           | 0.37 | 0.54  | 65.1            | 2.98              | 0.19                          | 0.38 | 0.55  | 62.1            | 3.38              | 0.18                          | 0.38 | 0.56  | 58.9            | 3.81              | 0.18                          | 0.38 | 0.57 |
|                               | 2400             | 70.7                                          | 2.63              | 0.2                           | 0.39 | 0.57  | 67.7            | 2.99              | 0.19                          | 0.4  | 0.58  | 64.5            | 3.39              | 0.19                          | 0.4  | 0.6   | 61.2            | 3.82              | 0.18                          | 0.4  | 0.62 |

### 20 TON HIGH EFFICIENCY LGH240H4V (2 COMPRESSORS OPERATING) - VARIABLE AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |       |      |      |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-------|------|------|------|------|
|                               |                  | 65°F                                          |                   |                               |      |       | 75°F            |                   |                               |      |       | 85°F            |                   |                               |      |       | 95°F  |      |      |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       |       |      |      |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |       |      |      |      |      |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |       |      |      |      |      |
| cfm                           | kBtuh            | kW                                            | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW    | 75°F | 80°F | 85°F |      |
| 63°F                          | 3200             | 123.6                                         | 5.16              | 0.71                          | 0.82 | 0.94  | 118             | 5.89              | 0.71                          | 0.83 | 0.95  | 112.2           | 6.68              | 0.72                          | 0.85 | 0.97  | 105.9 | 7.54 | 0.73 | 0.86 | 0.98 |
|                               | 4000             | 130.9                                         | 5.19              | 0.74                          | 0.88 | 0.99  | 124.9           | 5.92              | 0.75                          | 0.89 | 0.99  | 118.5           | 6.7               | 0.76                          | 0.91 | 1     | 111.8 | 7.56 | 0.77 | 0.93 | 1    |
|                               | 4800             | 136.2                                         | 5.21              | 0.78                          | 0.93 | 1     | 129.9           | 5.94              | 0.79                          | 0.94 | 1     | 123.5           | 6.72              | 0.8                           | 0.96 | 1     | 116.9 | 7.58 | 0.82 | 0.98 | 1    |
| 67°F                          | 3200             | 130.5                                         | 5.19              | 0.57                          | 0.68 | 0.79  | 124.8           | 5.92              | 0.57                          | 0.69 | 0.8   | 118.9           | 6.71              | 0.57                          | 0.7  | 0.81  | 112.4 | 7.56 | 0.57 | 0.71 | 0.83 |
|                               | 4000             | 138.5                                         | 5.22              | 0.58                          | 0.72 | 0.84  | 132.3           | 5.95              | 0.59                          | 0.73 | 0.86  | 125.9           | 6.73              | 0.6                           | 0.74 | 0.87  | 119   | 7.59 | 0.6  | 0.75 | 0.9  |
|                               | 4800             | 144.3                                         | 5.25              | 0.61                          | 0.75 | 0.9   | 137.9           | 5.98              | 0.61                          | 0.77 | 0.91  | 130.9           | 6.75              | 0.62                          | 0.78 | 0.93  | 123.8 | 7.61 | 0.63 | 0.8  | 0.95 |
| 71°F                          | 3200             | 136.8                                         | 5.22              | 0.44                          | 0.55 | 0.66  | 131             | 5.95              | 0.43                          | 0.55 | 0.67  | 124.9           | 6.73              | 0.43                          | 0.55 | 0.68  | 118.4 | 7.59 | 0.42 | 0.56 | 0.68 |
|                               | 4000             | 145.2                                         | 5.26              | 0.44                          | 0.57 | 0.7   | 139             | 5.98              | 0.44                          | 0.58 | 0.71  | 132.4           | 6.76              | 0.44                          | 0.59 | 0.72  | 125.5 | 7.62 | 0.44 | 0.59 | 0.73 |
|                               | 4800             | 151.6                                         | 5.29              | 0.45                          | 0.59 | 0.73  | 145             | 6.01              | 0.45                          | 0.6  | 0.74  | 137.9           | 6.78              | 0.44                          | 0.61 | 0.76  | 130.6 | 7.64 | 0.45 | 0.62 | 0.78 |

### 20 TON HIGH EFFICIENCY LGH240H4V (3 COMPRESSORS OPERATING) - VARIABLE AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 65°F                                          |                   |                               |      |       | 75°F            |                   |                               |      |       | 85°F            |                   |                               |      |       | 95°F            |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |      |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F |
| cfm                           | kBtuh            | kW                                            | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F |      |
| 63°F                          | 4800             | 193.8                                         | 7.85              | 0.7                           | 0.82 | 0.92  | 185.4           | 8.96              | 0.7                           | 0.83 | 0.93  | 176.5           | 10.15             | 0.71                          | 0.84 | 0.95  | 167.1           | 11.48             | 0.72                          | 0.85 | 0.97 |
|                               | 6000             | 205                                           | 7.89              | 0.73                          | 0.87 | 0.98  | 196             | 8.99              | 0.75                          | 0.88 | 0.99  | 186.4           | 10.18             | 0.76                          | 0.9  | 1     | 176.4           | 11.5              | 0.76                          | 0.91 | 1    |
|                               | 7200             | 213.2                                         | 7.93              | 0.78                          | 0.92 | 1     | 203.7           | 9.02              | 0.78                          | 0.93 | 1     | 193.6           | 10.2              | 0.81                          | 0.95 | 1     | 183.3           | 11.51             | 0.81                          | 0.97 | 1    |
| 67°F                          | 4800             | 204.8                                         | 7.89              | 0.55                          | 0.67 | 0.78  | 195.9           | 9                 | 0.55                          | 0.68 | 0.8   | 186.3           | 10.18             | 0.55                          | 0.69 | 0.81  | 176.2           | 11.5              | 0.56                          | 0.7  | 0.82 |
|                               | 6000             | 215.3                                         | 7.94              | 0.57                          | 0.72 | 0.84  | 205.7           | 9.02              | 0.59                          | 0.72 | 0.85  | 195.7           | 10.21             | 0.59                          | 0.73 | 0.87  | 184.7           | 11.51             | 0.6                           | 0.75 | 0.88 |
|                               | 7200             | 223                                           | 7.97              | 0.61                          | 0.76 | 0.89  | 212.8           | 9.05              | 0.6                           | 0.77 | 0.9   | 202.3           | 10.23             | 0.61                          | 0.78 | 0.92  | 191.3           | 11.53             | 0.62                          | 0.79 | 0.94 |
| 71°F                          | 4800             | 217.5                                         | 7.95              | 0.42                          | 0.53 | 0.65  | 208.3           | 9.04              | 0.42                          | 0.53 | 0.66  | 198.2           | 10.21             | 0.4                           | 0.54 | 0.67  | 187.7           | 11.53             | 0.41                          | 0.55 | 0.68 |
|                               | 6000             | 228.1                                         | 8                 | 0.43                          | 0.57 | 0.69  | 218.1           | 9.08              | 0.43                          | 0.57 | 0.69  | 207.6           | 10.27             | 0.43                          | 0.57 | 0.72  | 196.2           | 11.56             | 0.43                          | 0.58 | 0.73 |
|                               | 7200             | 235.7                                         | 8.04              | 0.44                          | 0.59 | 0.73  | 225.3           | 9.12              | 0.43                          | 0.6  | 0.74  | 214.2           | 10.29             | 0.43                          | 0.6  | 0.76  | 202.6           | 11.59             | 0.43                          | 0.61 | 0.77 |

### 20 TON HIGH EFFICIENCY LGH240H4V (4 COMPRESSORS OPERATING) - VARIABLE AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |      |  |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|--|
|                               |                  | 85°F                                          |                   |                               |      |       |                 | 95°F              |                               |      |       |                 | 105°F             |                               |      |       |                 | 115°F             |                               |      |      |  |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |  |
|                               |                  |                                               |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |      |  |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F |  |
| cfm                           | kBtuh            | kW                                            | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F |      |  |
| 63°F                          | 6400             | 239.3                                         | 13.51             | 0.71                          | 0.84 | 0.94  | 226.8           | 15.27             | 0.72                          | 0.85 | 0.96  | 213.6           | 17.22             | 0.74                          | 0.87 | 0.98  | 199.4           | 19.49             | 0.75                          | 0.89 | 0.99 |  |
|                               | 8000             | 253.6                                         | 13.55             | 0.76                          | 0.89 | 0.99  | 240             | 15.3              | 0.79                          | 0.91 | 1     | 225.8           | 17.26             | 0.79                          | 0.93 | 1     | 210.7           | 19.47             | 0.82                          | 0.95 | 1    |  |
|                               | 9600             | 263.9                                         | 13.6              | 0.81                          | 0.94 | 1     | 249.8           | 15.33             | 0.83                          | 0.96 | 1     | 235.5           | 17.29             | 0.84                          | 0.98 | 1     | 220.7           | 19.52             | 0.86                          | 1    | 1    |  |
| 67°F                          | 6400             | 252.7                                         | 13.55             | 0.56                          | 0.69 | 0.81  | 238.7           | 15.3              | 0.55                          | 0.7  | 0.82  | 223.8           | 17.25             | 0.56                          | 0.71 | 0.84  | 208.4           | 19.48             | 0.57                          | 0.74 | 0.86 |  |
|                               | 8000             | 264.1                                         | 13.59             | 0.59                          | 0.74 | 0.87  | 249.5           | 15.33             | 0.59                          | 0.76 | 0.88  | 234.4           | 17.28             | 0.6                           | 0.78 | 0.9   | 218.8           | 19.51             | 0.6                           | 0.8  | 0.92 |  |
|                               | 9600             | 273.4                                         | 13.64             | 0.62                          | 0.8  | 0.92  | 258.5           | 15.36             | 0.63                          | 0.82 | 0.94  | 243.2           | 17.32             | 0.63                          | 0.84 | 0.96  | 227.4           | 19.56             | 0.65                          | 0.84 | 0.98 |  |
| 71°F                          | 6400             | 269.1                                         | 13.62             | 0.41                          | 0.54 | 0.67  | 254.6           | 15.34             | 0.41                          | 0.55 | 0.67  | 239.8           | 17.32             | 0.4                           | 0.55 | 0.69  | 223.6           | 19.53             | 0.41                          | 0.56 | 0.7  |  |
|                               | 8000             | 281.4                                         | 13.67             | 0.43                          | 0.58 | 0.72  | 266.1           | 15.41             | 0.43                          | 0.59 | 0.74  | 250.2           | 17.33             | 0.41                          | 0.58 | 0.75  | 233.4           | 19.57             | 0.43                          | 0.59 | 0.77 |  |
|                               | 9600             | 290.2                                         | 13.71             | 0.43                          | 0.61 | 0.78  | 274.1           | 15.44             | 0.44                          | 0.62 | 0.79  | 257.7           | 17.38             | 0.46                          | 0.64 | 0.81  | 239.9           | 19.61             | 0.45                          | 0.65 | 0.82 |  |

## RATINGS

NOTE – For Temperatures and Capacities not shown in tables, see bulletin – Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 13 TON HIGH EFFICIENCY LGH156H4M (1ST STAGE) - SINGLE ZONE VAV SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |        |      |                 |                   |                               |      |      |                 |                   |                               |      |      |                 |                   |                               |      |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|--------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|------|
|                               |                  | 65°F                                          |                   |                               |        |      |                 | 75°F              |                               |      |      |                 | 85°F              |                               |      |      |                 | 95°F              |                               |      |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |        |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |        |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |      |
|                               |                  |                                               |                   | cfm                           | kBtu/h | kW   |                 |                   | 75°F                          | 80°F | 85°F | kBtu/h          |                   | kW                            | 75°F | 80°F | 85°F            |                   | kBtu/h                        | kW   | 75°F | 80°F |
| 63°F                          | 3000             | 98.5                                          | 4.61              | 0.63                          | 0.73   | 0.84 | 92.2            | 5.23              | 0.62                          | 0.73 | 0.84 | 85.8            | 5.90              | 0.61                          | 0.74 | 0.86 | 78.9            | 6.67              | 0.61                          | 0.74 | 0.87 |      |
|                               | 3500             | 104.4                                         | 4.64              | 0.65                          | 0.76   | 0.88 | 97.8            | 5.26              | 0.65                          | 0.77 | 0.89 | 91.0            | 5.94              | 0.64                          | 0.77 | 0.91 | 83.8            | 6.70              | 0.64                          | 0.79 | 0.93 |      |
|                               | 4000             | 109.2                                         | 4.67              | 0.67                          | 0.79   | 0.92 | 102.4           | 5.29              | 0.67                          | 0.80 | 0.93 | 95.2            | 5.96              | 0.67                          | 0.81 | 0.95 | 87.7            | 6.73              | 0.67                          | 0.83 | 0.98 |      |
| 67°F                          | 3000             | 105.7                                         | 4.65              | 0.51                          | 0.60   | 0.70 | 99.3            | 5.27              | 0.50                          | 0.60 | 0.70 | 92.6            | 5.94              | 0.48                          | 0.59 | 0.70 | 85.6            | 6.71              | 0.47                          | 0.59 | 0.71 |      |
|                               | 3500             | 111.8                                         | 4.69              | 0.52                          | 0.62   | 0.73 | 105.1           | 5.30              | 0.51                          | 0.62 | 0.73 | 98.0            | 5.98              | 0.50                          | 0.62 | 0.74 | 90.7            | 6.75              | 0.49                          | 0.62 | 0.75 |      |
|                               | 4000             | 116.9                                         | 4.72              | 0.53                          | 0.65   | 0.76 | 109.9           | 5.33              | 0.53                          | 0.65 | 0.77 | 102.5           | 6.01              | 0.52                          | 0.65 | 0.78 | 94.8            | 6.78              | 0.51                          | 0.65 | 0.79 |      |
| 71°F                          | 3000             | 112.9                                         | 4.69              | 0.40                          | 0.49   | 0.58 | 106.3           | 5.31              | 0.39                          | 0.48 | 0.58 | 99.4            | 5.99              | 0.37                          | 0.47 | 0.57 | 92.2            | 6.75              | 0.35                          | 0.46 | 0.57 |      |
|                               | 3500             | 119.3                                         | 4.73              | 0.41                          | 0.51   | 0.60 | 112.3           | 5.35              | 0.39                          | 0.50 | 0.60 | 105.1           | 6.03              | 0.38                          | 0.49 | 0.60 | 97.4            | 6.79              | 0.36                          | 0.48 | 0.60 |      |
|                               | 4000             | 124.5                                         | 4.77              | 0.41                          | 0.52   | 0.62 | 117.3           | 5.38              | 0.40                          | 0.51 | 0.62 | 109.7           | 6.06              | 0.39                          | 0.51 | 0.63 | 101.7           | 6.83              | 0.37                          | 0.50 | 0.63 |      |

### 13 TON HIGH EFFICIENCY LGH156H4M (2ND STAGE) - SINGLE ZONE VAV SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |        |                 |                   |                               |      |        |                 |                   |                               |      |        |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|--------|-----------------|-------------------|-------------------------------|------|--------|-----------------|-------------------|-------------------------------|------|--------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 85°F                                          |                   |                               |      |        | 95°F            |                   |                               |      |        | 105°F           |                   |                               |      |        | 115°F           |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |        | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |        | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |        | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |        |                 |                   | Dry Bulb                      |      |        |                 |                   | Dry Bulb                      |      |        |                 |                   | Dry Bulb                      |      |      |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F   |                 |                   | 75°F                          | 80°F | 85°F   | 75°F            |                   | 80°F                          | 85°F | 75°F   | 80°F            |                   | 85°F                          | 75°F | 80°F |
| cfm                           | kBtu/h           | kW                                            | 75°F              | 80°F                          | 85°F | kBtu/h | kW              | 75°F              | 80°F                          | 85°F | kBtu/h | kW              | 75°F              | 80°F                          | 85°F | kBtu/h | kW              | 75°F              | 80°F                          | 85°F |      |
| 63°F                          | 4160             | 148.1                                         | 9.05              | 0.70                          | 0.85 | 0.99   | 136.5           | 10.20             | 0.71                          | 0.87 | 1.00   | 124.5           | 11.51             | 0.72                          | 0.9  | 1.00   | 112.1           | 13.01             | 0.73                          | 0.93 | 1.00 |
|                               | 5200             | 157.1                                         | 9.11              | 0.76                          | 0.94 | 1.00   | 145.1           | 10.26             | 0.77                          | 0.96 | 1.00   | 132.6           | 11.57             | 0.79                          | 0.99 | 1.00   | 120.5           | 13.08             | 0.81                          | 1.00 | 1.00 |
|                               | 6240             | 164.5                                         | 9.17              | 0.82                          | 0.99 | 1.00   | 152.7           | 10.32             | 0.83                          | 1.00 | 1.00   | 141.1           | 11.64             | 0.86                          | 1.00 | 1.00   | 129.1           | 13.15             | 0.89                          | 1.00 | 1.00 |
| 67°F                          | 4160             | 159.3                                         | 9.13              | 0.54                          | 0.68 | 0.82   | 147.4           | 10.28             | 0.54                          | 0.69 | 0.84   | 135.3           | 11.59             | 0.53                          | 0.70 | 0.86   | 122.4           | 13.09             | 0.53                          | 0.71 | 0.89 |
|                               | 5200             | 169.0                                         | 9.20              | 0.58                          | 0.74 | 0.90   | 156.5           | 10.35             | 0.58                          | 0.75 | 0.92   | 143.4           | 11.66             | 0.58                          | 0.77 | 0.95   | 129.8           | 13.16             | 0.58                          | 0.79 | 0.98 |
|                               | 6240             | 175.9                                         | 9.25              | 0.61                          | 0.80 | 0.97   | 162.7           | 10.40             | 0.62                          | 0.81 | 0.99   | 149.1           | 11.71             | 0.62                          | 0.83 | 1.00   | 135.2           | 13.20             | 0.63                          | 0.86 | 1.00 |
| 71°F                          | 4160             | 170.4                                         | 9.21              | 0.40                          | 0.53 | 0.66   | 158.1           | 10.36             | 0.38                          | 0.53 | 0.66   | 145.8           | 11.68             | 0.37                          | 0.53 | 0.67   | 132.6           | 13.18             | 0.35                          | 0.52 | 0.69 |
|                               | 5200             | 180.5                                         | 9.29              | 0.41                          | 0.57 | 0.72   | 167.6           | 10.44             | 0.41                          | 0.57 | 0.73   | 154.2           | 11.75             | 0.39                          | 0.57 | 0.74   | 140.5           | 13.25             | 0.37                          | 0.58 | 0.76 |
|                               | 6240             | 187.9                                         | 9.35              | 0.43                          | 0.61 | 0.77   | 174.4           | 10.50             | 0.42                          | 0.61 | 0.79   | 160.4           | 11.81             | 0.41                          | 0.61 | 0.81   | 146.2           | 13.31             | 0.40                          | 0.62 | 0.84 |

### 15 TON HIGH EFFICIENCY LGH180H4M (1ST STAGE) - SINGLE ZONE VAV SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |        |      |                 |                   |                               |      |      |                 |                   |                               |      |      |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|--------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 65°F                                          |                   |                               |        |      | 75°F            |                   |                               |      |      | 85°F            |                   |                               |      |      | 95°F            |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |        |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |        |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |
|                               |                  |                                               |                   | cfm                           | kBtu/h | kW   |                 |                   | 75°F                          | 80°F | 85°F | kBtu/h          |                   | kW                            | 75°F | 80°F | 85°F            |                   | kBtu/h                        | kW   | 75°F |
| 63°F                          | 3500             | 114.2                                         | 5.02              | 0.65                          | 0.75   | 0.84 | 107.7           | 5.76              | 0.65                          | 0.75 | 0.85 | 100.8           | 6.58              | 0.64                          | 0.75 | 0.86 | 93.7            | 7.47              | 0.64                          | 0.76 | 0.87 |
|                               | 4000             | 120.2                                         | 5.03              | 0.67                          | 0.77   | 0.88 | 113.3           | 5.78              | 0.67                          | 0.78 | 0.89 | 106.0           | 6.59              | 0.67                          | 0.78 | 0.9  | 98.6            | 7.50              | 0.66                          | 0.79 | 0.91 |
|                               | 4500             | 125.2                                         | 5.03              | 0.69                          | 0.8    | 0.91 | 117.9           | 5.79              | 0.69                          | 0.8  | 0.92 | 110.5           | 6.61              | 0.69                          | 0.81 | 0.93 | 102.7           | 7.52              | 0.69                          | 0.82 | 0.95 |
| 67°F                          | 3500             | 122.4                                         | 5.03              | 0.53                          | 0.63   | 0.72 | 115.6           | 5.78              | 0.52                          | 0.62 | 0.72 | 108.6           | 6.60              | 0.51                          | 0.62 | 0.72 | 101.1           | 7.51              | 0.5                           | 0.62 | 0.73 |
|                               | 4000             | 128.6                                         | 5.04              | 0.54                          | 0.64   | 0.74 | 121.4           | 5.79              | 0.53                          | 0.64 | 0.75 | 114.1           | 6.62              | 0.53                          | 0.64 | 0.75 | 106.3           | 7.53              | 0.52                          | 0.64 | 0.76 |
|                               | 4500             | 133.7                                         | 5.04              | 0.55                          | 0.66   | 0.77 | 126.3           | 5.81              | 0.55                          | 0.66 | 0.77 | 118.7           | 6.64              | 0.54                          | 0.66 | 0.78 | 110.6           | 7.55              | 0.53                          | 0.67 | 0.79 |
| 71°F                          | 3500             | 130.5                                         | 5.04              | 0.42                          | 0.51   | 0.60 | 123.5           | 5.80              | 0.41                          | 0.51 | 0.60 | 116.2           | 6.63              | 0.39                          | 0.5  | 0.6  | 108.6           | 7.54              | 0.37                          | 0.49 | 0.59 |
|                               | 4000             | 136.9                                         | 5.04              | 0.43                          | 0.53   | 0.62 | 129.5           | 5.81              | 0.41                          | 0.52 | 0.62 | 121.9           | 6.65              | 0.40                          | 0.51 | 0.62 | 113.8           | 7.56              | 0.38                          | 0.5  | 0.62 |
|                               | 4500             | 142.3                                         | 5.05              | 0.43                          | 0.54   | 0.64 | 134.6           | 5.82              | 0.42                          | 0.53 | 0.64 | 126.7           | 6.66              | 0.41                          | 0.53 | 0.64 | 118.3           | 7.58              | 0.39                          | 0.52 | 0.64 |

### 15 TON HIGH EFFICIENCY LGH180H4M (2ND STAGE) - SINGLE ZONE VAV SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |       |      |                 |                   |                               |      |      |                 |                   |                               |      |      |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|-------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 85°F                                          |                   |                               |       |      | 95°F            |                   |                               |      |      | 105°F           |                   |                               |      |      | 115°F           |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |       |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |       |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |
|                               |                  |                                               |                   | cfm                           | kBtuh | kW   |                 |                   | 75°F                          | 80°F | 85°F | kBtuh           |                   | kW                            | 75°F | 80°F | 85°F            |                   | kBtuh                         | kW   | 75°F |
| 63°F                          | 4800             | 172.5                                         | 9.96              | 0.71                          | 0.85  | 0.99 | 160.1           | 11.32             | 0.71                          | 0.87 | 1.00 | 146.8           | 12.83             | 0.72                          | 0.90 | 1.00 | 132.7           | 14.51             | 0.74                          | 0.93 | 1.00 |
|                               | 6000             | 182.6                                         | 9.99              | 0.77                          | 0.93  | 1.00 | 169.5           | 11.37             | 0.78                          | 0.95 | 1.00 | 155.7           | 12.89             | 0.79                          | 0.98 | 1.00 | 141.3           | 14.57             | 0.81                          | 1.00 | 1.00 |
|                               | 7200             | 190.3                                         | 10.02             | 0.82                          | 0.99  | 1.00 | 177.3           | 11.41             | 0.83                          | 1.00 | 1.00 | 164.3           | 12.94             | 0.86                          | 1.00 | 1.00 | 150.5           | 14.64             | 0.89                          | 1.00 | 1.00 |
| 67°F                          | 4800             | 185.0                                         | 10.00             | 0.55                          | 0.69  | 0.82 | 172.1           | 11.38             | 0.55                          | 0.69 | 0.84 | 158.6           | 12.90             | 0.54                          | 0.70 | 0.86 | 144.0           | 14.59             | 0.54                          | 0.72 | 0.89 |
|                               | 6000             | 195.8                                         | 10.04             | 0.58                          | 0.74  | 0.90 | 182.1           | 11.43             | 0.58                          | 0.76 | 0.92 | 167.5           | 12.96             | 0.59                          | 0.77 | 0.95 | 152.2           | 14.65             | 0.59                          | 0.79 | 0.98 |
|                               | 7200             | 203.7                                         | 10.07             | 0.62                          | 0.8   | 0.97 | 189.3           | 11.46             | 0.62                          | 0.81 | 0.99 | 173.9           | 13.00             | 0.63                          | 0.84 | 1.00 | 157.8           | 14.69             | 0.63                          | 0.86 | 1.00 |
| 71°F                          | 4800             | 197.2                                         | 10.04             | 0.41                          | 0.54  | 0.67 | 183.9           | 11.43             | 0.39                          | 0.54 | 0.67 | 169.9           | 12.97             | 0.38                          | 0.53 | 0.68 | 155.0           | 14.67             | 0.36                          | 0.53 | 0.69 |
|                               | 6000             | 208.4                                         | 10.09             | 0.42                          | 0.58  | 0.72 | 194.2           | 11.48             | 0.41                          | 0.58 | 0.73 | 179.4           | 13.03             | 0.4                           | 0.58 | 0.75 | 163.3           | 14.73             | 0.38                          | 0.59 | 0.77 |
|                               | 7200             | 216.6                                         | 10.12             | 0.43                          | 0.61  | 0.78 | 201.8           | 11.52             | 0.42                          | 0.62 | 0.79 | 186.2           | 13.07             | 0.42                          | 0.62 | 0.81 | 169.7           | 14.78             | 0.41                          | 0.63 | 0.84 |



## RATINGS

NOTE – For Temperatures and Capacities not shown in tables, see bulletin – Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 17.5 TON HIGH EFFICIENCY LGH210H4M (1ST STAGE) - SINGLE ZONE VAV SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |       |      |                 |                   |                               |      |      |                 |                   |                               |      |      |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|-------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 65°F                                          |                   |                               |       |      | 75°F            |                   |                               |      |      | 85°F            |                   |                               |      |      | 95°F            |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |       |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |       |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |
|                               |                  |                                               |                   | cfm                           | kBtuh | kW   |                 |                   | 75°F                          | 80°F | 85°F | kBtuh           |                   | kW                            | 75°F | 80°F | 85°F            |                   | kBtuh                         | kW   | 75°F |
| 63°F                          | 4000             | 128.7                                         | 5.41              | 0.66                          | 0.77  | 0.87 | 121.1           | 6.15              | 0.65                          | 0.77 | 0.89 | 113.4           | 6.96              | 0.65                          | 0.78 | 0.90 | 105.1           | 7.88              | 0.65                          | 0.79 | 0.92 |
|                               | 4750             | 136.2                                         | 5.45              | 0.68                          | 0.80  | 0.92 | 128.2           | 6.19              | 0.68                          | 0.81 | 0.94 | 119.8           | 7.01              | 0.69                          | 0.83 | 0.96 | 111.0           | 7.93              | 0.69                          | 0.84 | 0.98 |
|                               | 5500             | 142.2                                         | 5.48              | 0.71                          | 0.84  | 0.97 | 133.7           | 6.23              | 0.71                          | 0.85 | 0.99 | 124.9           | 7.05              | 0.72                          | 0.87 | 1.00 | 115.8           | 7.96              | 0.73                          | 0.89 | 1.00 |
| 67°F                          | 4000             | 138.9                                         | 5.46              | 0.53                          | 0.63  | 0.73 | 130.9           | 6.21              | 0.52                          | 0.63 | 0.74 | 122.6           | 7.03              | 0.51                          | 0.63 | 0.74 | 114.1           | 7.95              | 0.51                          | 0.63 | 0.75 |
|                               | 4750             | 146.6                                         | 5.51              | 0.55                          | 0.66  | 0.77 | 138.2           | 6.26              | 0.54                          | 0.66 | 0.78 | 129.5           | 7.08              | 0.54                          | 0.66 | 0.79 | 120.2           | 8.00              | 0.53                          | 0.67 | 0.81 |
|                               | 5500             | 152.8                                         | 5.55              | 0.56                          | 0.69  | 0.81 | 143.8           | 6.30              | 0.56                          | 0.69 | 0.82 | 134.7           | 7.12              | 0.55                          | 0.70 | 0.84 | 125.2           | 8.04              | 0.56                          | 0.71 | 0.85 |
| 71°F                          | 4000             | 149.1                                         | 5.52              | 0.41                          | 0.51  | 0.61 | 141.2           | 6.28              | 0.40                          | 0.51 | 0.61 | 132.3           | 7.10              | 0.39                          | 0.50 | 0.61 | 123.4           | 8.02              | 0.38                          | 0.49 | 0.61 |
|                               | 4750             | 157.4                                         | 5.58              | 0.42                          | 0.53  | 0.64 | 148.4           | 6.33              | 0.41                          | 0.53 | 0.64 | 139.4           | 7.16              | 0.40                          | 0.53 | 0.64 | 129.6           | 8.07              | 0.39                          | 0.52 | 0.65 |
|                               | 5500             | 163.6                                         | 5.62              | 0.43                          | 0.55  | 0.66 | 154.3           | 6.38              | 0.42                          | 0.55 | 0.67 | 144.6           | 7.20              | 0.41                          | 0.54 | 0.67 | 134.7           | 8.12              | 0.40                          | 0.55 | 0.68 |

### 17.5 TON HIGH EFFICIENCY LGH210H4M (2ND STAGE) - SINGLE ZONE VAV SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |       |      |                 |                   |                               |      |       |                 |                   |                               |       |      |       |       |      |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|-------|------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|-------|------|-------|-------|------|------|------|
|                               |                  | 85°F                                          |                   |                               |       |      | 95°F            |                   |                               |      |       | 105°F           |                   |                               |       |      | 115°F |       |      |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |       |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |       |      |       |       |      |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |       |      |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |       |      |       |       |      |      |      |
|                               |                  |                                               |                   | 75°F                          | 80°F  | 85°F |                 |                   | 75°F                          | 80°F | 85°F  | 75°F            |                   | 80°F                          | 85°F  | 75°F | 80°F  | 85°F  |      |      |      |
| cfm                           | kBtuh            | kW                                            | kBtuh             | kW                            | kBtuh | kW   | kBtuh           | kW                | kBtuh                         | kW   | kBtuh | kW              | kBtuh             | kW                            | kBtuh | kW   | kBtuh | kW    |      |      |      |
| 63°F                          | 5600             | 197.5                                         | 11.26             | 0.71                          | 0.86  | 0.99 | 183.2           | 12.71             | 0.73                          | 0.89 | 1.00  | 168.8           | 14.37             | 0.74                          | 0.91  | 1.00 | 153.6 | 16.25 | 0.75 | 0.94 | 1.00 |
|                               | 7000             | 209.3                                         | 11.34             | 0.78                          | 0.95  | 1.00 | 194.5           | 12.8              | 0.79                          | 0.97 | 1.00  | 179.6           | 14.45             | 0.81                          | 0.99  | 1.00 | 164.6 | 16.33 | 0.83 | 1.00 | 1.00 |
|                               | 8400             | 219.3                                         | 11.42             | 0.83                          | 0.99  | 1.00 | 205.2           | 12.89             | 0.85                          | 1.00 | 1.00  | 190.5           | 14.55             | 0.88                          | 1.00  | 1.00 | 175.2 | 16.42 | 0.91 | 1.00 | 1.00 |
| 67°F                          | 5600             | 212.6                                         | 11.36             | 0.55                          | 0.69  | 0.83 | 198.1           | 12.83             | 0.55                          | 0.70 | 0.85  | 182.6           | 14.48             | 0.55                          | 0.71  | 0.87 | 166.4 | 16.34 | 0.55 | 0.73 | 0.90 |
|                               | 7000             | 224.4                                         | 11.46             | 0.59                          | 0.76  | 0.91 | 208.9           | 12.92             | 0.60                          | 0.77 | 0.94  | 192.3           | 14.56             | 0.60                          | 0.79  | 0.96 | 175.2 | 16.41 | 0.60 | 0.81 | 0.98 |
|                               | 8400             | 232.7                                         | 11.52             | 0.62                          | 0.81  | 0.98 | 216.2           | 12.98             | 0.63                          | 0.83 | 0.99  | 199.3           | 14.62             | 0.64                          | 0.85  | 1.00 | 181.7 | 16.47 | 0.64 | 0.88 | 1.00 |
| 71°F                          | 5600             | 228.4                                         | 11.49             | 0.41                          | 0.54  | 0.67 | 212.9           | 12.95             | 0.40                          | 0.54 | 0.68  | 197.0           | 14.60             | 0.39                          | 0.55  | 0.69 | 180.1 | 16.46 | 0.38 | 0.55 | 0.71 |
|                               | 7000             | 240.3                                         | 11.59             | 0.42                          | 0.59  | 0.73 | 223.9           | 13.05             | 0.42                          | 0.59 | 0.75  | 206.9           | 14.69             | 0.41                          | 0.59  | 0.76 | 189.0 | 16.54 | 0.40 | 0.60 | 0.78 |
|                               | 8400             | 248.5                                         | 11.66             | 0.44                          | 0.62  | 0.79 | 231.5           | 13.12             | 0.44                          | 0.63 | 0.81  | 214.0           | 14.75             | 0.43                          | 0.64  | 0.83 | 195.1 | 16.60 | 0.42 | 0.64 | 0.86 |

### 20 TON HIGH EFFICIENCY LGH240H4M (1ST STAGE) - SINGLE ZONE VAV SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |       |      |      |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-------|------|------|------|------|
|                               |                  | 65°F                                          |                   |                               |      |       | 75°F            |                   |                               |      |       | 85°F            |                   |                               |      |       | 95°F  |      |      |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       |       |      |      |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |       |      |      |      |      |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  | 75°F            |                   |                               |      |       | 80°F  | 85°F |      |      |      |
| cfm                           | kBtuh            | kW                                            | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW    | 75°F | 80°F | 85°F |      |
| 63°F                          | 4500             | 116.8                                         | 5.07              | 0.64                          | 0.74 | 0.84  | 111.1           | 5.77              | 0.64                          | 0.75 | 0.85  | 105.1           | 6.55              | 0.64                          | 0.75 | 0.87  | 98.7  | 7.43 | 0.64 | 0.76 | 0.88 |
|                               | 5500             | 124.7                                         | 5.12              | 0.66                          | 0.78 | 0.90  | 118.5           | 5.83              | 0.67                          | 0.79 | 0.91  | 111.8           | 6.60              | 0.67                          | 0.80 | 0.93  | 104.9 | 7.48 | 0.68 | 0.82 | 0.95 |
|                               | 6500             | 130.6                                         | 5.16              | 0.69                          | 0.82 | 0.95  | 124.0           | 5.87              | 0.70                          | 0.84 | 0.96  | 117.1           | 6.64              | 0.70                          | 0.85 | 0.98  | 109.7 | 7.52 | 0.71 | 0.87 | 0.99 |
| 67°F                          | 4500             | 125.3                                         | 5.12              | 0.52                          | 0.61 | 0.71  | 119.3           | 5.83              | 0.52                          | 0.61 | 0.71  | 113.0           | 6.61              | 0.51                          | 0.62 | 0.72  | 106.2 | 7.49 | 0.51 | 0.62 | 0.73 |
|                               | 5500             | 133.4                                         | 5.18              | 0.53                          | 0.64 | 0.75  | 126.9           | 5.89              | 0.53                          | 0.64 | 0.76  | 120.0           | 6.67              | 0.53                          | 0.65 | 0.77  | 112.8 | 7.55 | 0.53 | 0.65 | 0.78 |
|                               | 6500             | 139.7                                         | 5.22              | 0.55                          | 0.67 | 0.79  | 132.7           | 5.93              | 0.55                          | 0.68 | 0.80  | 125.2           | 6.71              | 0.55                          | 0.68 | 0.82  | 117.4 | 7.59 | 0.55 | 0.69 | 0.83 |
| 71°F                          | 4500             | 133.9                                         | 5.18              | 0.41                          | 0.50 | 0.59  | 127.5           | 5.89              | 0.40                          | 0.50 | 0.59  | 120.9           | 6.68              | 0.39                          | 0.50 | 0.59  | 113.7 | 7.55 | 0.39 | 0.49 | 0.59 |
|                               | 5500             | 142.3                                         | 5.24              | 0.42                          | 0.52 | 0.62  | 135.3           | 5.95              | 0.41                          | 0.52 | 0.62  | 128.2           | 6.74              | 0.40                          | 0.52 | 0.62  | 120.8 | 7.62 | 0.40 | 0.52 | 0.63 |
|                               | 6500             | 148.8                                         | 5.29              | 0.42                          | 0.54 | 0.64  | 141.3           | 6.01              | 0.42                          | 0.54 | 0.65  | 133.7           | 6.79              | 0.41                          | 0.54 | 0.66  | 125.4 | 7.66 | 0.41 | 0.54 | 0.67 |

### 20 TON HIGH EFFICIENCY LGH240H4M (2ND STAGE) - SINGLE ZONE VAV SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |       |      |                 |                   |                               |      |       |                 |                   |                               |       |      |       |       |       |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|-------|------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|-------|------|-------|-------|-------|------|------|
|                               |                  | 85°F                                          |                   |                               |       |      | 95°F            |                   |                               |      |       | 105°F           |                   |                               |       |      | 115°F |       |       |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |       |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |       |      |       |       |       |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |       |      |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |       |      |       |       |       |      |      |
|                               |                  |                                               |                   | 75°F                          | 80°F  | 85°F |                 |                   | 75°F                          | 80°F | 85°F  | 75°F            |                   | 80°F                          | 85°F  | 75°F | 80°F  | 85°F  | 75°F  | 80°F | 85°F |
| cfm                           | kBtuh            | kW                                            | kBtuh             | kW                            | kBtuh | kW   | kBtuh           | kW                | kBtuh                         | kW   | kBtuh | kW              | kBtuh             | kW                            | kBtuh | kW   | kBtuh | kW    | kBtuh | kW   |      |
| 63°F                          | 6400             | 236.6                                         | 13.31             | 0.73                          | 0.88  | 1.00 | 221.6           | 15.06             | 0.74                          | 0.91 | 1.00  | 205.8           | 17.06             | 0.76                          | 0.94  | 1.00 | 189.2 | 19.35 | 0.78  | 0.97 | 1.00 |
|                               | 8000             | 249.2                                         | 13.43             | 0.79                          | 0.97  | 1.00 | 233.7           | 15.17             | 0.80                          | 0.98 | 1.00  | 217.5           | 17.17             | 0.83                          | 0.99  | 1.00 | 201.1 | 19.47 | 0.86  | 1.00 | 1.00 |
|                               | 9600             | 260.1                                         | 13.53             | 0.85                          | 1.00  | 1.00 | 244.7           | 15.28             | 0.87                          | 1.00 | 1.00  | 228.9           | 17.29             | 0.90                          | 1.00  | 1.00 | 212.1 | 19.59 | 0.94  | 1.00 | 1.00 |
| 67°F                          | 6400             | 252.7                                         | 13.46             | 0.56                          | 0.71  | 0.85 | 236.8           | 15.20             | 0.57                          | 0.72 | 0.87  | 220.0           | 17.20             | 0.57                          | 0.73  | 0.90 | 202.2 | 19.48 | 0.58  | 0.76 | 0.93 |
|                               | 8000             | 264.4                                         | 13.57             | 0.60                          | 0.77  | 0.93 | 247.3           | 15.31             | 0.61                          | 0.78 | 0.96  | 229.6           | 17.30             | 0.62                          | 0.81  | 0.98 | 210.9 | 19.57 | 0.63  | 0.84 | 0.99 |
|                               | 9600             | 272.8                                         | 13.66             | 0.64                          | 0.83  | 0.99 | 255.3           | 15.39             | 0.64                          | 0.85 | 1.00  | 236.8           | 17.38             | 0.65                          | 0.88  | 1.00 | 217.9 | 19.65 | 0.67  | 0.92 | 1.00 |
| 71°F                          | 6400             | 269.2                                         | 13.62             | 0.41                          | 0.55  | 0.68 | 252.6           | 15.37             | 0.41                          | 0.56 | 0.70  | 235.2           | 17.36             | 0.41                          | 0.56  | 0.71 | 216.6 | 19.64 | 0.40  | 0.57 | 0.73 |
|                               | 8000             | 281.5                                         | 13.75             | 0.43                          | 0.59  | 0.74 | 263.7           | 15.49             | 0.43                          | 0.60 | 0.76  | 245.0           | 17.48             | 0.43                          | 0.61  | 0.78 | 225.2 | 19.74 | 0.42  | 0.62 | 0.81 |
|                               | 9600             | 289.9                                         | 13.83             | 0.45                          | 0.63  | 0.81 | 271.3           | 15.57             | 0.45                          | 0.64 | 0.83  | 252.0           | 17.55             | 0.45                          | 0.65  | 0.86 | 231.3 | 19.81 | 0.44  | 0.67 | 0.89 |



## RATINGS

NOTE – For Temperatures and Capacities not shown in tables, see bulletin – Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 25 TON STANDARD EFFICIENCY LGH300S4M (1ST STAGE) - SINGLE ZONE VAV SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |      |  |  |  |  |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|--|--|--|--|
|                               |                  | 65°F                                          |                   |                               |      |       |                 | 75°F              |                               |      |       |                 |                   | 85°F                          |      |       |                 |                   |                               | 95°F |      |  |  |  |  |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |  |  |  |  |
|                               |                  |                                               |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |      |  |  |  |  |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F |  |  |  |  |
| cfm                           | kBtuh            | kW                                            | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F |      |  |  |  |  |
| 63°F                          | 5750             | 135.3                                         | 6.25              | 0.65                          | 0.75 | 0.86  | 130.0           | 7.06              | 0.66                          | 0.77 | 0.88  | 124.8           | 7.98              | 0.66                          | 0.78 | 0.89  | 119.7           | 9.04              | 0.67                          | 0.79 | 0.91 |  |  |  |  |
|                               | 6750             | 141.3                                         | 6.30              | 0.67                          | 0.79 | 0.90  | 135.5           | 7.12              | 0.68                          | 0.80 | 0.92  | 129.8           | 8.04              | 0.69                          | 0.82 | 0.94  | 124.3           | 9.10              | 0.70                          | 0.83 | 0.96 |  |  |  |  |
|                               | 7750             | 146.0                                         | 6.35              | 0.69                          | 0.82 | 0.94  | 139.8           | 7.17              | 0.70                          | 0.84 | 0.96  | 133.9           | 8.09              | 0.72                          | 0.86 | 0.98  | 128.1           | 9.14              | 0.73                          | 0.87 | 0.99 |  |  |  |  |
| 67°F                          | 5750             | 143.5                                         | 6.32              | 0.53                          | 0.62 | 0.72  | 138.1           | 7.15              | 0.53                          | 0.63 | 0.73  | 132.4           | 8.07              | 0.54                          | 0.64 | 0.74  | 126.9           | 9.13              | 0.54                          | 0.65 | 0.76 |  |  |  |  |
|                               | 6750             | 149.9                                         | 6.39              | 0.54                          | 0.64 | 0.75  | 143.6           | 7.21              | 0.54                          | 0.65 | 0.77  | 137.7           | 8.14              | 0.55                          | 0.67 | 0.78  | 131.9           | 9.19              | 0.56                          | 0.67 | 0.80 |  |  |  |  |
|                               | 7750             | 155.1                                         | 6.44              | 0.55                          | 0.67 | 0.79  | 148.1           | 7.26              | 0.56                          | 0.68 | 0.81  | 141.9           | 8.19              | 0.57                          | 0.69 | 0.82  | 135.7           | 9.25              | 0.57                          | 0.71 | 0.84 |  |  |  |  |
| 71°F                          | 5750             | 151.7                                         | 6.41              | 0.42                          | 0.51 | 0.60  | 145.6           | 7.24              | 0.42                          | 0.51 | 0.61  | 140.1           | 8.17              | 0.42                          | 0.52 | 0.61  | 134.2           | 9.23              | 0.42                          | 0.52 | 0.62 |  |  |  |  |
|                               | 6750             | 158.3                                         | 6.48              | 0.42                          | 0.52 | 0.62  | 151.7           | 7.31              | 0.42                          | 0.53 | 0.63  | 145.6           | 8.24              | 0.42                          | 0.53 | 0.64  | 139.7           | 9.30              | 0.42                          | 0.54 | 0.65 |  |  |  |  |
|                               | 7750             | 164.2                                         | 6.54              | 0.42                          | 0.54 | 0.64  | 156.7           | 7.37              | 0.41                          | 0.54 | 0.65  | 150.2           | 8.30              | 0.42                          | 0.55 | 0.67  | 143.3           | 9.35              | 0.43                          | 0.56 | 0.68 |  |  |  |  |

### 25 TON STANDARD EFFICIENCY LGH300S4M (2ND STAGE) - SINGLE ZONE VAV SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |      |                 |                   |                               |      |      |                 |                   |                               |      |      |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 85°F                                          |                   |                               |      |      | 95°F            |                   |                               |      |      | 105°F           |                   |                               |      |      | 115°F           |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |
|                               | cfm              | kBtuh                                         | kW                | 75°F                          | 80°F | 85°F | kBtuh           | kW                | 75°F                          | 80°F | 85°F | kBtuh           | kW                | 75°F                          | 80°F | 85°F | kBtuh           | kW                | 75°F                          | 80°F | 85°F |
| 63°F                          | 8000             | 277.2                                         | 17.80             | 0.72                          | 0.87 | 1.00 | 264.6           | 19.95             | 0.74                          | 0.89 | 1.00 | 251.7           | 22.43             | 0.75                          | 0.92 | 1.00 | 238.5           | 25.35             | 0.78                          | 0.95 | 1.00 |
|                               | 9500             | 287.2                                         | 17.97             | 0.76                          | 0.93 | 1.00 | 273.8           | 20.12             | 0.78                          | 0.96 | 1.00 | 260.1           | 22.59             | 0.80                          | 0.98 | 1.00 | 246.0           | 25.49             | 0.83                          | 1.00 | 1.00 |
|                               | 11000            | 295.0                                         | 18.11             | 0.80                          | 0.98 | 1.00 | 280.6           | 20.25             | 0.83                          | 1.00 | 1.00 | 267.4           | 22.73             | 0.85                          | 1.00 | 1.00 | 254.5           | 25.68             | 0.88                          | 1.00 | 1.00 |
| 67°F                          | 8000             | 293.2                                         | 18.08             | 0.57                          | 0.70 | 0.83 | 279.6           | 20.23             | 0.58                          | 0.71 | 0.86 | 265.8           | 22.71             | 0.59                          | 0.73 | 0.88 | 251.7           | 25.63             | 0.60                          | 0.75 | 0.91 |
|                               | 9500             | 302.9                                         | 18.25             | 0.59                          | 0.74 | 0.89 | 288.4           | 20.39             | 0.60                          | 0.76 | 0.92 | 273.9           | 22.86             | 0.62                          | 0.78 | 0.95 | 258.8           | 25.78             | 0.63                          | 0.80 | 0.98 |
|                               | 11000            | 310.1                                         | 18.38             | 0.62                          | 0.78 | 0.95 | 295.3           | 20.52             | 0.63                          | 0.80 | 0.98 | 279.9           | 22.99             | 0.64                          | 0.83 | 1.00 | 264.5           | 25.89             | 0.65                          | 0.85 | 1.00 |
| 71°F                          | 8000             | 310.0                                         | 18.38             | 0.43                          | 0.56 | 0.68 | 295.5           | 20.53             | 0.43                          | 0.57 | 0.69 | 280.6           | 23.00             | 0.43                          | 0.58 | 0.71 | 265.8           | 25.92             | 0.44                          | 0.59 | 0.73 |
|                               | 9500             | 319.0                                         | 18.54             | 0.44                          | 0.58 | 0.72 | 304.0           | 20.68             | 0.44                          | 0.59 | 0.74 | 288.9           | 23.17             | 0.45                          | 0.61 | 0.75 | 273.0           | 26.07             | 0.45                          | 0.62 | 0.78 |
|                               | 11000            | 326.9                                         | 18.68             | 0.44                          | 0.61 | 0.76 | 311.2           | 20.82             | 0.45                          | 0.62 | 0.78 | 294.9           | 23.29             | 0.46                          | 0.63 | 0.80 | 278.5           | 26.19             | 0.47                          | 0.65 | 0.83 |

# DEHUMIDIFICATION SYSTEM RATINGS

## 13 TON HIGH EFFICIENCY LGH156H4 WITH DEHUMIDIFICATION OPERATING (1ST STAGE)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |       |      |                 |                   |                               |      |      |                 |                   |                               |     |      |                 |                   |                               |      |       |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|-------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|-----|------|-----------------|-------------------|-------------------------------|------|-------|
|                               |                  | 65°F                                          |                   |                               |       |      | 75°F            |                   |                               |      |      | 85°F            |                   |                               |     |      | 95°F            |                   |                               |      |       |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |       |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |     |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       |
|                               |                  |                                               |                   | Dry Bulb                      |       |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |     |      |                 |                   | Dry Bulb                      |      |       |
|                               |                  |                                               |                   | cfm                           | kBtuh | kW   |                 |                   | 75°F                          | 80°F | 85°F |                 |                   | kBtuh                         | kW  | 75°F |                 |                   | 80°F                          | 85°F | kBtuh |
| 63°F                          | 4160             | 78.9                                          | 4.67              | .56                           | .74   | .93  | 66.3            | 5.28              | .50                           | .73  | .96  | 53.6            | 5.89              | .45                           | .72 | .99  | 40.9            | 6.50              | .39                           | .71  | 1.00  |
|                               | 5200             | 86.8                                          | 4.71              | .58                           | .80   | 1.00 | 72.5            | 5.30              | .52                           | .79  | 1.00 | 58.1            | 5.89              | .47                           | .78 | 1.00 | 43.7            | 6.48              | .41                           | .77  | 1.00  |
|                               | 6240             | 94.7                                          | 4.74              | .60                           | .86   | 1.00 | 78.7            | 5.32              | .54                           | .85  | 1.00 | 62.6            | 5.89              | .49                           | .83 | 1.00 | 46.6            | 6.47              | .43                           | .82  | 1.00  |
| 67°F                          | 4160             | 89.4                                          | 4.76              | .40                           | .57   | .74  | 77.1            | 5.37              | .33                           | .53  | .74  | 64.8            | 5.98              | .26                           | .49 | .73  | 52.5            | 6.59              | .18                           | .46  | .73   |
|                               | 5200             | 97.5                                          | 4.77              | .41                           | .61   | .80  | 83.6            | 5.38              | .34                           | .57  | .80  | 69.6            | 5.98              | .26                           | .53 | .80  | 55.7            | 6.58              | .18                           | .49  | .81   |
|                               | 6240             | 105.7                                         | 4.79              | .43                           | .64   | .86  | 90.1            | 5.38              | .34                           | .60  | .87  | 74.5            | 5.98              | .26                           | .57 | .88  | 58.9            | 6.57              | .17                           | .53  | .89   |
| 71°F                          | 4160             | 99.9                                          | 4.85              | .25                           | .40   | .55  | 87.9            | 5.46              | .16                           | .33  | .51  | 76.0            | 6.07              | .07                           | .27 | .47  | 64.1            | 6.69              | -.03                          | .20  | .43   |
|                               | 5200             | 108.2                                         | 4.84              | .25                           | .41   | .58  | 94.7            | 5.45              | .15                           | .35  | .55  | 81.2            | 6.07              | .05                           | .28 | .52  | 67.7            | 6.68              | -.06                          | .22  | .49   |
|                               | 6240             | 116.6                                         | 4.84              | .25                           | .43   | .61  | 101.5           | 5.45              | .14                           | .36  | .59  | 86.4            | 6.06              | .03                           | .30 | .57  | 71.3            | 6.68              | -.09                          | .23  | .55   |

## 13 TON HIGH EFFICIENCY LGH156H4 WITH DEHUMIDIFICATION OPERATING (2ND STAGE)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |       |      |                 |                   |                               |      |      |                 |                   |                               |     |      |                 |                   |                               |      |       |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|-------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|-----|------|-----------------|-------------------|-------------------------------|------|-------|
|                               |                  | 65°F                                          |                   |                               |       |      | 75°F            |                   |                               |      |      | 85°F            |                   |                               |     |      | 95°F            |                   |                               |      |       |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |       |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |     |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       |
|                               |                  |                                               |                   | Dry Bulb                      |       |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |     |      |                 |                   | Dry Bulb                      |      |       |
|                               |                  |                                               |                   | cfm                           | kBtuh | kW   |                 |                   | 75°F                          | 80°F | 85°F |                 |                   | kBtuh                         | kW  | 75°F |                 |                   | 80°F                          | 85°F | kBtuh |
| 63°F                          | 4160             | 131.1                                         | 7.12              | .64                           | .82   | 1.00 | 116.4           | 8.10              | .62                           | .83  | 1.00 | 101.6           | 9.08              | .60                           | .84 | 1.00 | 86.8            | 10.05             | .57                           | .85  | 1.00  |
|                               | 5200             | 142.5                                         | 7.16              | .67                           | .87   | 1.00 | 125.8           | 8.14              | .66                           | .89  | 1.00 | 109.2           | 9.11              | .65                           | .90 | 1.00 | 92.6            | 10.09             | .64                           | .91  | 1.00  |
|                               | 6240             | 153.8                                         | 7.20              | .71                           | .93   | 1.00 | 135.3           | 8.17              | .71                           | .94  | 1.00 | 116.8           | 9.15              | .71                           | .96 | 1.00 | 98.3            | 10.12             | .71                           | .98  | 1.00  |
| 67°F                          | 4160             | 148.3                                         | 7.23              | .47                           | .63   | .79  | 132.8           | 8.20              | .44                           | .62  | .81  | 117.3           | 9.18              | .41                           | .61 | .82  | 101.8           | 10.15             | .37                           | .61  | .84   |
|                               | 5200             | 160.5                                         | 7.28              | .49                           | .67   | .85  | 143.0           | 8.25              | .46                           | .67  | .87  | 125.4           | 9.22              | .44                           | .66 | .88  | 107.8           | 10.19             | .41                           | .65  | .90   |
|                               | 6240             | 172.8                                         | 7.33              | .51                           | .71   | .91  | 153.1           | 8.30              | .49                           | .71  | .92  | 133.5           | 9.26              | .47                           | .70 | .94  | 113.8           | 10.23             | .44                           | .70  | .96   |
| 71°F                          | 4160             | 165.4                                         | 7.34              | .31                           | .45   | .59  | 149.2           | 8.31              | .26                           | .42  | .58  | 133.0           | 9.28              | .22                           | .39 | .57  | 116.8           | 10.24             | .17                           | .36  | .56   |
|                               | 5200             | 178.6                                         | 7.40              | .31                           | .47   | .63  | 160.1           | 8.37              | .27                           | .44  | .62  | 141.6           | 9.33              | .22                           | .42 | .62  | 123.0           | 10.29             | .17                           | .39  | .62   |
|                               | 6240             | 191.8                                         | 7.46              | .32                           | .49   | .67  | 171.0           | 8.42              | .27                           | .47  | .67  | 150.1           | 9.38              | .22                           | .45 | .67  | 129.2           | 10.34             | .17                           | .42  | .68   |

## 15 TON HIGH EFFICIENCY LGH180H4 WITH DEHUMIDIFICATION OPERATING (1ST STAGE)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |       |      |                 |                   |                               |      |      |                 |                   |                               |     |      |                 |                   |                               |      |       |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|-------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|-----|------|-----------------|-------------------|-------------------------------|------|-------|
|                               |                  | 65°F                                          |                   |                               |       |      | 75°F            |                   |                               |      |      | 85°F            |                   |                               |     |      | 95°F            |                   |                               |      |       |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |       |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |     |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       |
|                               |                  |                                               |                   | Dry Bulb                      |       |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |     |      |                 |                   | Dry Bulb                      |      |       |
|                               |                  |                                               |                   | cfm                           | kBtuh | kW   |                 |                   | 75°F                          | 80°F | 85°F |                 |                   | kBtuh                         | kW  | 75°F |                 |                   | 80°F                          | 85°F | kBtuh |
| 63°F                          | 4800             | 91.6                                          | 5.36              | .56                           | .74   | .91  | 78.7            | 6.02              | .51                           | .73  | .94  | 65.8            | 6.67              | .46                           | .71 | .96  | 52.8            | 7.33              | .41                           | .70  | .98   |
|                               | 6000             | 97.3                                          | 5.40              | .60                           | .80   | 1.00 | 82.5            | 6.03              | .56                           | .81  | 1.00 | 67.7            | 6.65              | .53                           | .82 | 1.00 | 52.9            | 7.28              | .49                           | .83  | 1.00  |
|                               | 7200             | 103.0                                         | 5.44              | .63                           | .87   | 1.00 | 86.4            | 6.04              | .61                           | .90  | 1.00 | 69.7            | 6.64              | .59                           | .94 | 1.00 | 53.0            | 7.23              | .57                           | .97  | 1.00  |
| 67°F                          | 4800             | 103.7                                         | 5.47              | .41                           | .57   | .72  | 90.4            | 6.13              | .34                           | .53  | .72  | 77.0            | 6.78              | .28                           | .49 | .71  | 63.6            | 7.44              | .21                           | .46  | .71   |
|                               | 6000             | 108.5                                         | 5.51              | .43                           | .61   | .79  | 94.0            | 6.14              | .37                           | .59  | .81  | 79.5            | 6.76              | .31                           | .56 | .82  | 65.0            | 7.39              | .25                           | .54  | .84   |
|                               | 7200             | 113.3                                         | 5.54              | .44                           | .65   | .86  | 97.6            | 6.14              | .39                           | .64  | .90  | 82.0            | 6.75              | .33                           | .63 | .93  | 66.3            | 7.35              | .28                           | .63  | .97   |
| 71°F                          | 4800             | 115.9                                         | 5.58              | .25                           | .39   | .53  | 102.1           | 6.24              | .17                           | .33  | .50  | 88.2            | 6.90              | .09                           | .28 | .46  | 74.4            | 7.55              | .01                           | .22  | .43   |
|                               | 6000             | 119.7                                         | 5.61              | .25                           | .41   | .57  | 105.5           | 6.24              | .17                           | .36  | .55  | 91.2            | 6.87              | .08                           | .30 | .52  | 77.0            | 7.51              | .00                           | .25  | .50   |
|                               | 7200             | 123.5                                         | 5.64              | .25                           | .43   | .61  | 108.9           | 6.25              | .17                           | .38  | .60  | 94.2            | 6.85              | .08                           | .33 | .58  | 79.6            | 7.46              | -.01                          | .28  | .57   |

## 15 TON HIGH EFFICIENCY LGH180H4 WITH DEHUMIDIFICATION OPERATING (2ND STAGE)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |      |                 |                   |                               |      |      |                 |                   |                               |      |      |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 65°F                                          |                   |                               |      |      | 75°F            |                   |                               |      |      | 85°F            |                   |                               |      |      | 95°F            |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |                 |                   | Dry Bulb                      |      |      |
|                               |                  | cfm                                           | kBtuh             | kW                            | 75°F | 80°F | 85°F            | kBtuh             | kW                            | 75°F | 80°F | 85°F            | kBtuh             | kW                            | 75°F | 80°F | 85°F            | kBtuh             | kW                            | 75°F | 80°F |
| 63°F                          | 4800             | 154.5                                         | 8.08              | .64                           | .80  | .96  | 138.5           | 9.09              | .63                           | .81  | .99  | 122.4           | 10.11             | .62                           | .82  | 1.00 | 106.3           | 11.13             | .61                           | .83  | 1.00 |
|                               | 6000             | 163.3                                         | 8.13              | .69                           | .87  | 1.00 | 144.9           | 9.13              | .69                           | .89  | 1.00 | 126.4           | 10.12             | .69                           | .90  | 1.00 | 108.0           | 11.12             | .69                           | .92  | 1.00 |
|                               | 7200             | 172.0                                         | 8.18              | .73                           | .94  | 1.00 | 151.3           | 9.16              | .74                           | .96  | 1.00 | 130.5           | 10.14             | .75                           | .98  | 1.00 | 109.7           | 11.12             | .76                           | 1.00 | 1.00 |
| 67°F                          | 4800             | 171.4                                         | 8.23              | .48                           | .62  | .77  | 155.1           | 9.24              | .45                           | .62  | .79  | 138.8           | 10.25             | .42                           | .61  | .80  | 122.6           | 11.26             | .39                           | .60  | .81  |
|                               | 6000             | 180.3                                         | 8.27              | .50                           | .65  | .80  | 161.9           | 9.27              | .48                           | .65  | .83  | 143.5           | 10.27             | .46                           | .66  | .86  | 125.1           | 11.26             | .44                           | .67  | .90  |
|                               | 7200             | 189.2                                         | 8.31              | .53                           | .67  | .82  | 168.7           | 9.30              | .51                           | .69  | .87  | 148.2           | 10.28             | .49                           | .71  | .93  | 127.7           | 11.26             | .48                           | .73  | .98  |
| 71°F                          | 4800             | 188.2                                         | 8.38              | .31                           | .45  | .59  | 171.7           | 9.39              | .27                           | .42  | .58  | 155.3           | 10.39             | .23                           | .40  | .57  | 138.9           | 11.40             | .18                           | .37  | .56  |
|                               | 6000             | 197.3                                         | 8.41              | .31                           | .43  | .54  | 179.0           | 9.41              | .27                           | .42  | .57  | 160.6           | 10.41             | .23                           | .42  | .61  | 142.3           | 11.40             | .19                           | .41  | .64  |
|                               | 7200             | 206.4                                         | 8.45              | .32                           | .40  | .49  | 186.2           | 9.43              | .27                           | .42  | .57  | 165.9           | 10.42             | .23                           | .44  | .65  | 145.7           | 11.41             | .19                           | .46  | .72  |

# DEHUMIDIFICATION SYSTEM RATINGS

## 17.5 TON HIGH EFFICIENCY LGH210H4 WITH DEHUMIDIFICATION OPERATING (1ST STAGE)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 65°F                                          |                   |                               |      |       | 75°F            |                   |                               |      |       | 85°F            |                   |                               |      |       | 95°F            |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |      |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F |
| cfm                           | kBtuh            | kW                                            | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F |      |
| 63°F                          | 5600             | 105.3                                         | 5.76              | .58                           | .77  | .96   | 91.1            | 6.45              | .53                           | .75  | .98   | 76.8            | 7.14              | .48                           | .74  | 1.00  | 62.6            | 7.84              | .43                           | .72  | 1.00 |
|                               | 7000             | 109.7                                         | 5.79              | .63                           | .85  | 1.00  | 92.9            | 6.47              | .60                           | .85  | 1.00  | 76.1            | 7.14              | .57                           | .86  | 1.00  | 59.3            | 7.82              | .54                           | .86  | 1.00 |
|                               | 8400             | 114.0                                         | 5.82              | .68                           | .93  | 1.00  | 94.7            | 6.48              | .67                           | .95  | 1.00  | 75.3            | 7.14              | .65                           | .98  | 1.00  | 56.0            | 7.81              | .64                           | 1.00 | 1.00 |
| 67°F                          | 5600             | 120.6                                         | 5.91              | .42                           | .59  | .77   | 105.7           | 6.59              | .35                           | .55  | .76   | 90.7            | 7.27              | .29                           | .52  | .74   | 75.8            | 7.95              | .23                           | .48  | .73  |
|                               | 7000             | 126.6                                         | 5.95              | .45                           | .64  | .83   | 108.8           | 6.62              | .39                           | .62  | .84   | 91.0            | 7.28              | .33                           | .59  | .86   | 73.1            | 7.95              | .27                           | .57  | .87  |
|                               | 8400             | 132.7                                         | 5.99              | .47                           | .69  | .90   | 111.9           | 6.64              | .42                           | .68  | .93   | 91.2            | 7.29              | .37                           | .67  | .97   | 70.5            | 7.94              | .32                           | .66  | 1.00 |
| 71°F                          | 5600             | 135.8                                         | 6.07              | .26                           | .42  | .58   | 120.2           | 6.74              | .18                           | .36  | .53   | 104.7           | 7.40              | .10                           | .30  | .49   | 89.1            | 8.06              | .02                           | .23  | .45  |
|                               | 7000             | 143.6                                         | 6.11              | .26                           | .43  | .60   | 124.7           | 6.77              | .18                           | .38  | .58   | 105.9           | 7.42              | .10                           | .33  | .56   | 87.0            | 8.07              | .01                           | .28  | .55  |
|                               | 8400             | 151.3                                         | 6.16              | .27                           | .44  | .62   | 129.2           | 6.80              | .18                           | .40  | .63   | 107.1           | 7.44              | .09                           | .36  | .64   | 84.9            | 8.08              | .00                           | .32  | .65  |

## 17.5 TON HIGH EFFICIENCY LGH210H4 WITH DEHUMIDIFICATION OPERATING (2ND STAGE)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 65°F                                          |                   |                               |      |       | 75°F            |                   |                               |      |       | 85°F            |                   |                               |      |       | 95°F            |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |      |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F |
| cfm                           | kBtuh            | kW                                            | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F |      |
| 63°F                          | 5600             | 179.3                                         | 9.23              | .65                           | .81  | .98   | 162.1           | 10.35             | .63                           | .82  | 1.00  | 144.9           | 11.47             | .62                           | .83  | 1.00  | 127.6           | 12.60             | .60                           | .83  | 1.00 |
|                               | 7000             | 189.8                                         | 9.32              | .69                           | .87  | 1.00  | 170.6           | 10.43             | .68                           | .88  | 1.00  | 151.4           | 11.54             | .67                           | .89  | 1.00  | 132.2           | 12.64             | .66                           | .90  | 1.00 |
|                               | 8400             | 200.2                                         | 9.42              | .74                           | .94  | 1.00  | 179.0           | 10.51             | .73                           | .95  | 1.00  | 157.9           | 11.60             | .73                           | .96  | 1.00  | 136.7           | 12.69             | .72                           | .98  | 1.00 |
| 67°F                          | 5600             | 199.6                                         | 9.47              | .48                           | .63  | .79   | 181.4           | 10.58             | .45                           | .62  | .80   | 163.2           | 11.68             | .43                           | .62  | .81   | 144.9           | 12.78             | .40                           | .61  | .81  |
|                               | 7000             | 210.4                                         | 9.58              | .51                           | .68  | .85   | 190.2           | 10.67             | .48                           | .67  | .87   | 170.0           | 11.75             | .46                           | .67  | .88   | 149.8           | 12.84             | .44                           | .66  | .89  |
|                               | 8400             | 221.3                                         | 9.68              | .54                           | .73  | .92   | 199.1           | 10.76             | .51                           | .72  | .94   | 176.9           | 11.83             | .49                           | .72  | .95   | 154.6           | 12.91             | .47                           | .72  | .97  |
| 71°F                          | 5600             | 219.9                                         | 9.72              | .31                           | .45  | .60   | 200.7           | 10.80             | .28                           | .43  | .59   | 181.5           | 11.88             | .24                           | .41  | .58   | 162.2           | 12.96             | .20                           | .39  | .57  |
|                               | 7000             | 231.1                                         | 9.83              | .32                           | .48  | .65   | 209.9           | 10.90             | .28                           | .46  | .64   | 188.6           | 11.97             | .25                           | .44  | .64   | 167.4           | 13.04             | .21                           | .42  | .64  |
|                               | 8400             | 242.4                                         | 9.93              | .33                           | .52  | .70   | 219.1           | 11.00             | .29                           | .50  | .70   | 195.8           | 12.06             | .25                           | .48  | .71   | 172.6           | 13.13             | .21                           | .46  | .71  |

## 20 TON HIGH EFFICIENCY LGH240H4 WITH DEHUMIDIFICATION OPERATING (1ST STAGE)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |        |                 |                   |                               |      |        |                 |                   |                               |      |        |                 |                   |                               |      |      |  |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|--------|-----------------|-------------------|-------------------------------|------|--------|-----------------|-------------------|-------------------------------|------|--------|-----------------|-------------------|-------------------------------|------|------|--|
|                               |                  | 65°F                                          |                   |                               |      |        |                 | 75°F              |                               |      |        |                 | 85°F              |                               |      |        |                 | 95°F              |                               |      |      |  |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |        | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |        | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |        | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |  |
|                               |                  |                                               |                   | Dry Bulb                      |      |        |                 |                   | Dry Bulb                      |      |        |                 |                   | Dry Bulb                      |      |        |                 |                   | Dry Bulb                      |      |      |  |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F   |                 |                   | 75°F                          | 80°F | 85°F   |                 |                   | 75°F                          | 80°F | 85°F   |                 |                   | 75°F                          | 80°F | 85°F |  |
| cfm                           | kBtu/h           | kW                                            | 75°F              | 80°F                          | 85°F | kBtu/h | kW              | 75°F              | 80°F                          | 85°F | kBtu/h | kW              | 75°F              | 80°F                          | 85°F | kBtu/h | kW              | 75°F              | 80°F                          | 85°F |      |  |
| 63°F                          | 6400             | 91.1                                          | 5.34              | .52                           | .70  | .88    | 75.6            | 5.99              | .43                           | .68  | .93    | 60.0            | 6.63              | .34                           | .66  | .97    | 44.4            | 7.28              | .25                           | .64  | 1.00 |  |
|                               | 8000             | 98.6                                          | 5.37              | .54                           | .76  | .97    | 80.6            | 5.99              | .47                           | .76  | 1.00   | 62.7            | 6.61              | .39                           | .77  | 1.00   | 44.7            | 7.23              | .31                           | .78  | 1.00 |  |
|                               | 9600             | 106.1                                         | 5.40              | .57                           | .82  | 1.00   | 85.7            | 5.99              | .50                           | .85  | 1.00   | 65.3            | 6.59              | .43                           | .88  | 1.00   | 45.0            | 7.19              | .36                           | .92  | 1.00 |  |
| 67°F                          | 6400             | 106.4                                         | 5.48              | .37                           | .52  | .68    | 89.5            | 6.12              | .27                           | .48  | .69    | 72.6            | 6.76              | .17                           | .43  | .69    | 55.7            | 7.40              | .07                           | .38  | .69  |  |
|                               | 8000             | 112.6                                         | 5.50              | .38                           | .57  | .75    | 94.4            | 6.12              | .28                           | .53  | .78    | 76.2            | 6.74              | .18                           | .49  | .80    | 58.0            | 7.36              | .09                           | .46  | .83  |  |
|                               | 9600             | 118.9                                         | 5.52              | .39                           | .61  | .82    | 99.3            | 6.12              | .30                           | .58  | .87    | 79.7            | 6.72              | .20                           | .56  | .92    | 60.2            | 7.32              | .11                           | .54  | .96  |  |
| 71°F                          | 6400             | 121.7                                         | 5.62              | .22                           | .35  | .49    | 103.5           | 6.25              | .10                           | .28  | .45    | 85.3            | 6.88              | -.01                          | .20  | .40    | 67.1            | 7.52              | -.12                          | .12  | .36  |  |
|                               | 8000             | 126.7                                         | 5.63              | .22                           | .38  | .54    | 108.2           | 6.25              | .10                           | .30  | .49    | 89.7            | 6.87              | -.02                          | .22  | .45    | 71.2            | 7.49              | -.13                          | .14  | .41  |  |
|                               | 9600             | 131.6                                         | 5.64              | .21                           | .40  | .58    | 112.9           | 6.25              | .09                           | .32  | .54    | 94.1            | 6.85              | -.02                          | .24  | .49    | 75.4            | 7.46              | -.14                          | .15  | .45  |  |

## 20 TON HIGH EFFICIENCY LGH240H4 WITH DEHUMIDIFICATION OPERATING (2ND STAGE)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 65°F                                          |                   |                               |      |       | 75°F            |                   |                               |      |       | 85°F            |                   |                               |      |       | 95°F            |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |      |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F |
| cfm                           | kBtuh            | kW                                            | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F | kBtuh | kW              | 75°F              | 80°F                          | 85°F |      |
| 63°F                          | 6400             | 215.7                                         | 10.70             | .64                           | .79  | .93   | 193.6           | 12.10             | .63                           | .81  | .99   | 171.4           | 13.50             | .62                           | .84  | 1.00  | 149.3           | 14.90             | .61                           | .86  | 1.00 |
|                               | 8000             | 226.5                                         | 10.73             | .69                           | .86  | 1.00  | 201.6           | 12.10             | .69                           | .88  | 1.00  | 176.6           | 13.48             | .70                           | .91  | 1.00  | 151.7           | 14.86             | .70                           | .93  | 1.00 |
|                               | 9600             | 237.4                                         | 10.76             | .73                           | .94  | 1.00  | 209.6           | 12.11             | .75                           | .96  | 1.00  | 181.8           | 13.46             | .77                           | .98  | 1.00  | 154.0           | 14.81             | .80                           | 1.00 | 1.00 |
| 67°F                          | 6400             | 240.5                                         | 10.89             | .48                           | .62  | .76   | 217.4           | 12.29             | .46                           | .62  | .79   | 194.3           | 13.69             | .44                           | .63  | .82   | 171.2           | 15.10             | .42                           | .63  | .85  |
|                               | 8000             | 249.1                                         | 10.91             | .51                           | .67  | .84   | 224.6           | 12.30             | .49                           | .68  | .86   | 200.1           | 13.69             | .48                           | .68  | .88   | 175.7           | 15.08             | .46                           | .68  | .91  |
|                               | 9600             | 257.6                                         | 10.94             | .53                           | .73  | .92   | 231.8           | 12.31             | .53                           | .73  | .93   | 206.0           | 13.68             | .52                           | .73  | .95   | 180.1           | 15.05             | .51                           | .74  | .96  |
| 71°F                          | 6400             | 265.4                                         | 11.07             | .32                           | .45  | .58   | 241.3           | 12.48             | .29                           | .44  | .59   | 217.2           | 13.88             | .25                           | .42  | .59   | 193.1           | 15.29             | .22                           | .40  | .59  |
|                               | 8000             | 271.6                                         | 11.10             | .33                           | .49  | .64   | 247.6           | 12.50             | .29                           | .47  | .65   | 223.6           | 13.89             | .26                           | .45  | .65   | 199.6           | 15.29             | .22                           | .44  | .66  |
|                               | 9600             | 277.8                                         | 11.12             | .34                           | .52  | .70   | 254.0           | 12.51             | .30                           | .50  | .70   | 230.1           | 13.90             | .26                           | .49  | .71   | 206.2           | 15.29             | .22                           | .47  | .72  |

# DEHUMIDIFICATION SYSTEM RATINGS

## 25 TON STANDARD EFFICIENCY LGH300S4 WITH DEHUMIDIFICATION OPERATING (1ST STAGE)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |        |                 |                   |                               |      |        |                 |                   |                               |      |        |                 |                   |                               |      |      |  |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|--------|-----------------|-------------------|-------------------------------|------|--------|-----------------|-------------------|-------------------------------|------|--------|-----------------|-------------------|-------------------------------|------|------|--|
|                               |                  | 65°F                                          |                   |                               |      |        |                 | 75°F              |                               |      |        |                 | 85°F              |                               |      |        |                 | 95°F              |                               |      |      |  |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |        | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |        | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |        | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |  |
|                               |                  |                                               |                   | Dry Bulb                      |      |        |                 |                   | Dry Bulb                      |      |        |                 |                   | Dry Bulb                      |      |        |                 |                   | Dry Bulb                      |      |      |  |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F   |                 |                   | 75°F                          | 80°F | 85°F   |                 |                   | 75°F                          | 80°F | 85°F   |                 |                   | 75°F                          | 80°F | 85°F |  |
| cfm                           | kBtu/h           | kW                                            | 75°F              | 80°F                          | 85°F | kBtu/h | kW              | 75°F              | 80°F                          | 85°F | kBtu/h | kW              | 75°F              | 80°F                          | 85°F | kBtu/h | kW              | 75°F              | 80°F                          | 85°F |      |  |
| 63°F                          | 8000             | 100.4                                         | 7.25              | .55                           | .74  | .93    | 83.6            | 7.96              | .47                           | .71  | .96    | 66.7            | 8.67              | .38                           | .69  | .99    | 49.8            | 9.38              | .29                           | .66  | 1.00 |  |
|                               | 9500             | 106.3                                         | 7.33              | .58                           | .77  | .97    | 89.3            | 8.02              | .50                           | .76  | .99    | 72.3            | 8.71              | .42                           | .74  | 1.00   | 55.2            | 9.40              | .34                           | .72  | 1.00 |  |
|                               | 11,000           | 112.2                                         | 7.40              | .61                           | .81  | .99    | 95.0            | 8.08              | .53                           | .80  | 1.00   | 77.8            | 8.75              | .46                           | .80  | 1.00   | 60.6            | 9.43              | .38                           | .79  | 1.00 |  |
| 67°F                          | 8000             | 116.1                                         | 7.40              | .37                           | .54  | .71    | 98.8            | 8.14              | .27                           | .48  | .70    | 81.5            | 8.87              | .17                           | .43  | .69    | 64.2            | 9.61              | .07                           | .37  | .68  |  |
|                               | 9500             | 106.3                                         | 7.33              | .58                           | .77  | .97    | 89.3            | 8.02              | .50                           | .76  | .99    | 72.3            | 8.71              | .42                           | .74  | 1.00   | 55.2            | 9.40              | .34                           | .72  | 1.00 |  |
|                               | 11,000           | 129.2                                         | 7.52              | .40                           | .58  | .77    | 109.6           | 8.24              | .30                           | .54  | .78    | 90.1            | 8.95              | .20                           | .50  | .80    | 70.5            | 9.66              | .09                           | .46  | .82  |  |
| 71°F                          | 8000             | 131.7                                         | 7.55              | .19                           | .34  | .49    | 114.0           | 8.31              | .07                           | .25  | .44    | 96.3            | 9.07              | -.04                          | .17  | .38    | 78.6            | 9.83              | -.16                          | .09  | .33  |  |
|                               | 9500             | 139.0                                         | 7.60              | .19                           | .35  | .51    | 119.1           | 8.36              | .07                           | .27  | .46    | 99.3            | 9.11              | -.06                          | .19  | .43    | 79.5            | 9.86              | -.18                          | .11  | .38  |  |
|                               | 11,000           | 146.2                                         | 7.65              | .19                           | .36  | .52    | 124.2           | 8.40              | .07                           | .28  | .49    | 102.3           | 9.14              | -.07                          | .20  | .47    | 80.4            | 9.89              | -.20                          | .12  | .44  |  |

## 25 TON STANDARD EFFICIENCY LGH300S4 WITH DEHUMIDIFICATION OPERATING (2ND STAGE)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |       |                 |                   |                               |      |      |
|-------------------------------|------------------|-----------------------------------------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
|                               |                  | 65°F                                          |                   |                               |      |       | 75°F            |                   |                               |      |       | 85°F            |                   |                               |      |       | 95°F            |                   |                               |      |      |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) |      |      |
|                               |                  |                                               |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |       |                 |                   | Dry Bulb                      |      |      |
|                               |                  |                                               |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F  |                 |                   | 75°F                          | 80°F | 85°F |
| cfm                           | kBTuh            | kW                                            | 75°F              | 80°F                          | 85°F | kBTuh | kW              | 75°F              | 80°F                          | 85°F | kBTuh | kW              | 75°F              | 80°F                          | 85°F | kBTuh | kW              | 75°F              | 80°F                          | 85°F |      |
| 63°F                          | 8000             | 260.3                                         | 14.9              | .66                           | .80  | .95   | 234.7           | 16.7              | .65                           | .81  | .97   | 209.1           | 18.5              | .65                           | .82  | .98   | 183.5           | 20.3              | .65                           | .82  | 1.00 |
|                               | 9500             | 276.4                                         | 15.0              | .69                           | .83  | .96   | 248.2           | 16.8              | .70                           | .84  | .97   | 220.1           | 18.6              | .70                           | .85  | .99   | 191.9           | 20.4              | .71                           | .85  | 1.00 |
|                               | 11,000           | 279.6                                         | 15.1              | .73                           | .87  | 1.00  | 253.1           | 16.9              | .75                           | .87  | 1.00  | 226.7           | 18.7              | .76                           | .88  | 1.00  | 200.3           | 20.5              | .78                           | .89  | 1.00 |
| 67°F                          | 8000             | 283.9                                         | 15.2              | .50                           | .64  | .78   | 257.7           | 17.0              | .48                           | .63  | .79   | 231.5           | 18.8              | .46                           | .63  | .80   | 205.3           | 20.7              | .44                           | .62  | .81  |
|                               | 9500             | 294.1                                         | 15.3              | .52                           | .67  | .81   | 266.7           | 17.1              | .51                           | .66  | .82   | 239.3           | 18.9              | .49                           | .66  | .82   | 211.9           | 20.8              | .48                           | .66  | .83  |
|                               | 11,000           | 302.0                                         | 15.4              | .54                           | .69  | .84   | 274.2           | 17.2              | .53                           | .69  | .85   | 246.3           | 19.1              | .53                           | .69  | .86   | 218.4           | 20.9              | .52                           | .69  | .87  |
| 71°F                          | 8000             | 307.5                                         | 15.5              | .34                           | .47  | .61   | 280.7           | 17.3              | .31                           | .46  | .61   | 253.9           | 19.2              | .27                           | .44  | .61   | 227.2           | 21.1              | .24                           | .43  | .61  |
|                               | 9500             | 311.7                                         | 15.5              | .35                           | .51  | .66   | 285.1           | 17.4              | .32                           | .49  | .66   | 258.5           | 19.3              | .28                           | .47  | .66   | 231.9           | 21.2              | .25                           | .46  | .66  |
|                               | 11,000           | 324.5                                         | 15.6              | .35                           | .51  | .67   | 295.2           | 17.5              | .32                           | .51  | .69   | 265.9           | 19.4              | .29                           | .50  | .71   | 236.6           | 21.3              | .26                           | .50  | .73  |

## BLOWER DATA

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL & AIR FILTERS IN PLACE FOR ALL UNITS ADD:

- 1 - Wet indoor coil air resistance of selected unit.
- 2 - Any factory installed options air resistance (heat section, economizer, etc.)
- 3 - Any field installed accessories air resistance (heat section, duct resistance, diffuser, etc.)

Then determine from blower table blower motor output and drive required.

See page 48 for wet coil and option/accessory air resistance data.

See page 47 for factory installed drive kit specifications.

### MINIMUM AIR VOLUME REQUIRED FOR DIFFERENT GAS HEAT SIZES

Low (L), Standard (S) and Medium Heat (M) - 4500 cfm minimum

High Heat (H) - 5125 cfm minimum

| Air Volume<br>cfm | TOTAL STATIC PRESSURE - Inches Water Gauge (Pa) |      |      |      |      |      |      |      |      |      |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |
|-------------------|-------------------------------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
|                   | 0.20                                            |      | 0.40 |      | 0.60 |      | 0.80 |      | 1.00 |      | 1.20 |       | 1.40 |       | 1.60 |       | 1.80 |       | 2.00 |       | 2.20 |       | 2.40 |       | 2.60 |       |
|                   | RPM                                             | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP   | RPM  | BHP   | RPM  | BHP   | RPM  | BHP   | RPM  | BHP   | RPM  | BHP   | RPM  | BHP   | RPM  | BHP   |
| 2750              | 385                                             | 0.30 | 505  | 0.50 | 600  | 0.70 | 680  | 0.90 | 755  | 1.10 | 820  | 1.30  | 885  | 1.50  | 950  | 1.70  | 1005 | 1.90  | 1060 | 2.10  | 1115 | 2.30  | 1165 | 2.50  | 1220 | 2.70  |
| 3000              | 395                                             | 0.35 | 515  | 0.55 | 610  | 0.75 | 685  | 1.00 | 760  | 1.20 | 825  | 1.45  | 890  | 1.65  | 955  | 1.85  | 1010 | 2.05  | 1070 | 2.25  | 1125 | 2.45  | 1180 | 2.65  | 1235 | 2.85  |
| 3250              | 405                                             | 0.40 | 520  | 0.60 | 615  | 0.85 | 695  | 1.10 | 765  | 1.30 | 830  | 1.60  | 890  | 1.80  | 955  | 2.00  | 1005 | 2.20  | 1060 | 2.40  | 1115 | 2.60  | 1165 | 2.80  | 1220 | 3.00  |
| 3500              | 415                                             | 0.45 | 530  | 0.70 | 620  | 0.95 | 700  | 1.20 | 775  | 1.45 | 840  | 1.70  | 900  | 1.90  | 965  | 2.10  | 1015 | 2.30  | 1070 | 2.50  | 1120 | 2.70  | 1175 | 2.90  | 1230 | 3.10  |
| 3750              | 425                                             | 0.50 | 540  | 0.75 | 630  | 1.05 | 710  | 1.30 | 780  | 1.60 | 845  | 1.85  | 905  | 2.05  | 970  | 2.25  | 1020 | 2.45  | 1075 | 2.65  | 1125 | 2.85  | 1180 | 3.05  | 1235 | 3.25  |
| 4000              | 435                                             | 0.55 | 545  | 0.85 | 635  | 1.10 | 715  | 1.40 | 785  | 1.70 | 850  | 2.00  | 910  | 2.20  | 975  | 2.40  | 1025 | 2.60  | 1075 | 2.80  | 1125 | 3.00  | 1180 | 3.20  | 1230 | 3.40  |
| 4250              | 445                                             | 0.60 | 555  | 0.90 | 645  | 1.25 | 725  | 1.55 | 795  | 1.85 | 855  | 2.15  | 915  | 2.35  | 980  | 2.55  | 1030 | 2.75  | 1080 | 2.95  | 1130 | 3.15  | 1185 | 3.35  | 1235 | 3.55  |
| 4500              | 455                                             | 0.70 | 565  | 1.00 | 655  | 1.35 | 730  | 1.65 | 800  | 2.00 | 865  | 2.35  | 925  | 2.55  | 990  | 2.75  | 1040 | 2.95  | 1090 | 3.15  | 1135 | 3.35  | 1185 | 3.55  | 1235 | 3.75  |
| 4750              | 470                                             | 0.75 | 575  | 1.10 | 660  | 1.45 | 740  | 1.80 | 810  | 2.15 | 870  | 2.50  | 930  | 2.70  | 995  | 2.90  | 1045 | 3.10  | 1095 | 3.30  | 1135 | 3.50  | 1185 | 3.70  | 1235 | 3.90  |
| 5000              | 480                                             | 0.85 | 585  | 1.25 | 670  | 1.60 | 750  | 1.95 | 815  | 2.30 | 880  | 2.70  | 940  | 2.90  | 1005 | 3.10  | 1055 | 3.30  | 1105 | 3.50  | 1145 | 3.70  | 1195 | 3.90  | 1245 | 4.10  |
| 5250              | 495                                             | 0.95 | 595  | 1.35 | 680  | 1.70 | 755  | 2.10 | 825  | 2.50 | 890  | 2.90  | 945  | 3.10  | 1010 | 3.30  | 1060 | 3.50  | 1110 | 3.70  | 1155 | 3.90  | 1205 | 4.10  | 1255 | 4.30  |
| 5500              | 505                                             | 1.05 | 605  | 1.45 | 690  | 1.85 | 765  | 2.25 | 835  | 2.65 | 895  | 3.05  | 950  | 3.25  | 1015 | 3.45  | 1065 | 3.65  | 1115 | 3.85  | 1160 | 4.05  | 1210 | 4.25  | 1260 | 4.45  |
| 5750              | 520                                             | 1.15 | 615  | 1.60 | 700  | 2.00 | 775  | 2.45 | 840  | 2.85 | 905  | 3.25  | 960  | 3.45  | 1025 | 3.65  | 1075 | 3.85  | 1120 | 4.05  | 1170 | 4.25  | 1220 | 4.45  | 1270 | 4.65  |
| 6000              | 530                                             | 1.30 | 630  | 1.75 | 710  | 2.15 | 785  | 2.60 | 850  | 3.05 | 910  | 3.45  | 970  | 3.65  | 1035 | 3.85  | 1085 | 4.05  | 1130 | 4.25  | 1180 | 4.45  | 1230 | 4.65  | 1280 | 4.85  |
| 6250              | 545                                             | 1.40 | 640  | 1.90 | 720  | 2.35 | 795  | 2.80 | 860  | 3.25 | 920  | 3.70  | 975  | 3.90  | 1040 | 4.10  | 1090 | 4.30  | 1135 | 4.50  | 1185 | 4.70  | 1235 | 4.90  | 1285 | 5.10  |
| 6500              | 560                                             | 1.55 | 650  | 2.05 | 730  | 2.50 | 805  | 3.00 | 870  | 3.45 | 930  | 3.95  | 985  | 4.15  | 1045 | 4.35  | 1095 | 4.55  | 1140 | 4.75  | 1190 | 4.95  | 1240 | 5.15  | 1290 | 5.35  |
| 6750              | 570                                             | 1.70 | 665  | 2.20 | 745  | 2.70 | 815  | 3.20 | 880  | 3.70 | 940  | 4.20  | 995  | 4.40  | 1055 | 4.60  | 1105 | 4.80  | 1150 | 5.00  | 1200 | 5.20  | 1250 | 5.40  | 1300 | 5.60  |
| 7000              | 585                                             | 1.85 | 675  | 2.35 | 755  | 2.90 | 825  | 3.40 | 890  | 3.95 | 950  | 4.45  | 1005 | 4.65  | 1065 | 4.85  | 1115 | 5.05  | 1160 | 5.25  | 1210 | 5.45  | 1260 | 5.65  | 1310 | 5.85  |
| 7250              | 600                                             | 2.00 | 690  | 2.60 | 765  | 3.10 | 835  | 3.65 | 900  | 4.15 | 955  | 4.65  | 1015 | 4.85  | 1075 | 5.05  | 1125 | 5.25  | 1170 | 5.45  | 1220 | 5.65  | 1270 | 5.85  | 1320 | 6.05  |
| 7500              | 615                                             | 2.20 | 700  | 2.75 | 775  | 3.30 | 845  | 3.85 | 910  | 4.45 | 965  | 4.95  | 1020 | 5.10  | 1080 | 5.30  | 1130 | 5.50  | 1180 | 5.70  | 1230 | 5.90  | 1280 | 6.10  | 1330 | 6.30  |
| 7750              | 630                                             | 2.40 | 715  | 3.00 | 790  | 3.55 | 855  | 4.10 | 920  | 4.70 | 975  | 5.25  | 1030 | 5.45  | 1090 | 5.65  | 1140 | 5.85  | 1190 | 6.05  | 1240 | 6.25  | 1290 | 6.45  | 1340 | 6.65  |
| 8000              | 640                                             | 2.55 | 725  | 3.20 | 800  | 3.80 | 865  | 4.35 | 930  | 4.95 | 985  | 5.50  | 1040 | 5.70  | 1100 | 5.90  | 1150 | 6.10  | 1200 | 6.30  | 1250 | 6.50  | 1300 | 6.70  | 1350 | 6.90  |
| 8250              | 655                                             | 2.80 | 740  | 3.40 | 810  | 4.00 | 880  | 4.65 | 940  | 5.25 | 995  | 5.85  | 1050 | 6.05  | 1110 | 6.25  | 1160 | 6.45  | 1210 | 6.65  | 1260 | 6.85  | 1310 | 7.05  | 1360 | 7.25  |
| 8500              | 670                                             | 3.00 | 750  | 3.65 | 825  | 4.30 | 890  | 4.90 | 950  | 5.55 | 1005 | 6.15  | 1060 | 6.35  | 1120 | 6.55  | 1170 | 6.75  | 1220 | 6.95  | 1270 | 7.15  | 1320 | 7.35  | 1370 | 7.55  |
| 8750              | 685                                             | 3.25 | 765  | 3.90 | 835  | 4.55 | 900  | 5.20 | 960  | 5.85 | 1015 | 6.45  | 1070 | 6.65  | 1130 | 6.85  | 1180 | 7.05  | 1230 | 7.25  | 1280 | 7.45  | 1330 | 7.65  | 1380 | 7.85  |
| 9000              | 700                                             | 3.50 | 780  | 4.20 | 850  | 4.85 | 910  | 5.50 | 970  | 6.15 | 1025 | 6.80  | 1080 | 7.00  | 1140 | 7.20  | 1190 | 7.40  | 1240 | 7.60  | 1290 | 7.80  | 1340 | 8.00  | 1390 | 8.20  |
| 9250              | 715                                             | 3.75 | 790  | 4.45 | 860  | 5.15 | 925  | 5.85 | 985  | 6.55 | 1040 | 7.20  | 1090 | 7.40  | 1150 | 7.60  | 1200 | 7.80  | 1250 | 8.00  | 1300 | 8.20  | 1350 | 8.40  | 1400 | 8.60  |
| 9500              | 730                                             | 4.00 | 805  | 4.75 | 875  | 5.45 | 935  | 6.15 | 995  | 6.90 | 1050 | 7.60  | 1100 | 7.80  | 1160 | 8.00  | 1210 | 8.20  | 1260 | 8.40  | 1310 | 8.60  | 1360 | 8.80  | 1410 | 9.00  |
| 9750              | 745                                             | 4.30 | 820  | 5.05 | 885  | 5.75 | 950  | 6.55 | 1005 | 7.20 | 1060 | 7.95  | 1110 | 8.15  | 1170 | 8.35  | 1220 | 8.55  | 1270 | 8.75  | 1320 | 8.95  | 1370 | 9.15  | 1420 | 9.35  |
| 10,000            | 760                                             | 4.60 | 835  | 5.40 | 900  | 6.15 | 960  | 6.85 | 1015 | 7.60 | 1070 | 8.35  | 1120 | 8.55  | 1180 | 8.75  | 1230 | 8.95  | 1280 | 9.15  | 1330 | 9.35  | 1380 | 9.55  | 1430 | 9.75  |
| 10,250            | 775                                             | 4.90 | 845  | 5.65 | 910  | 6.45 | 970  | 7.20 | 1030 | 8.00 | 1080 | 8.75  | 1135 | 8.95  | 1195 | 9.15  | 1245 | 9.35  | 1295 | 9.55  | 1345 | 9.75  | 1395 | 9.95  | 1445 | 10.15 |
| 10,500            | 790                                             | 5.20 | 860  | 6.00 | 925  | 6.85 | 985  | 7.65 | 1040 | 8.40 | 1095 | 9.20  | 1145 | 9.40  | 1205 | 9.60  | 1255 | 9.80  | 1305 | 10.00 | 1355 | 10.20 | 1405 | 10.40 | 1455 | 10.60 |
| 10,750            | 805                                             | 5.55 | 875  | 6.40 | 940  | 7.25 | 1000 | 8.05 | 1055 | 8.85 | 1105 | 9.65  | 1155 | 9.85  | 1215 | 10.05 | 1265 | 10.25 | 1315 | 10.45 | 1365 | 10.65 | 1415 | 10.85 | 1465 | 11.05 |
| 11,000            | 820                                             | 5.90 | 890  | 6.80 | 950  | 7.60 | 1010 | 8.45 | 1065 | 9.30 | 1115 | 10.05 | 1165 | 10.25 | 1220 | 10.45 | 1270 | 10.65 | 1320 | 10.85 | 1370 | 11.05 | 1420 | 11.20 | 1470 | 11.40 |

## BLOWER DATA

### FACTORY INSTALLED BELT DRIVE KIT SPECIFICATIONS

| Motor Efficiency | Nominal<br>hp | Maximum<br>hp | Drive Kit Number | RPM Range   |
|------------------|---------------|---------------|------------------|-------------|
| Standard or High | 2             | 2.30          | 1                | 535 - 725   |
| Standard or High | 2             | 2.30          | 2                | 710 - 965   |
| Standard         | 3             | 3.45          | 1                | 535 - 725   |
| Standard         | 3             | 3.45          | 2                | 710 - 965   |
| High             | 3             | 3.45          | 3                | 685 - 856   |
| High             | 3             | 3.45          | 4                | 850 - 1045  |
| Standard         | 5             | 5.75          | 3                | 685 - 856   |
| Standard         | 5             | 5.75          | 4                | 850 - 1045  |
| Standard         | 5             | 5.75          | 5                | 945 - 1185  |
| Standard         | 7.5           | 8.63          | 6                | 850 - 1045  |
| Standard         | 7.5           | 8.63          | 7                | 945 - 1185  |
| Standard         | 7.5           | 8.63          | 8                | 1045 - 1285 |
| Standard         | 10            | 11.50         | 7                | 945 - 1185  |
| Standard         | 10            | 11.50         | 10               | 1045 - 1285 |
| Standard         | 10            | 11.50         | 11               | 1135 - 1365 |

NOTE - Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor output required. Maximum usable output of motors furnished are shown. In Canada, nominal motor output is also maximum usable motor output. If motors of comparable output are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

NOTE - Units equipped with Single Zone VAV option are limited to a motor service factor of 1.0.

### FACTORY INSTALLED OPTIONS/FIELD INSTALLED ACCESSORY AIR RESISTANCE

| Air<br>Volume<br>cfm | Wet Indoor Coil |                        | Condenser<br>Reheat<br>Coil | Gas Heat Exchanger   |                |              | Economizer | Filters  |          | Horizontal<br>Roof Curb |         |
|----------------------|-----------------|------------------------|-----------------------------|----------------------|----------------|--------------|------------|----------|----------|-------------------------|---------|
|                      | 156H,<br>180H   | 210H,<br>240H,<br>300S |                             | Low/Standard<br>Heat | Medium<br>Heat | High<br>Heat |            |          |          | 156H<br>thru<br>240H    | 300S    |
|                      | in. w.g.        | in. w.g.               |                             | in. w.g.             | in. w.g.       | in. w.g.     |            | in. w.g. | in. w.g. | MERV 8                  | MERV 13 |
| 2750                 | .01             | .02                    | .01                         | .02                  | .04            | .05          | ---        | .01      | .03      | .03                     | -       |
| 3000                 | .01             | .02                    | .01                         | .03                  | .04            | .05          | ---        | .01      | .03      | .04                     | -       |
| 3250                 | .01             | .03                    | .01                         | .03                  | .05            | .06          | ---        | .01      | .04      | .04                     | .01     |
| 3500                 | .01             | .03                    | .02                         | .03                  | .05            | .06          | ---        | .01      | .04      | .05                     | .01     |
| 3750                 | .01             | .03                    | .02                         | .04                  | .06            | .07          | ---        | .01      | .04      | .05                     | .01     |
| 4000                 | .02             | .04                    | .02                         | .04                  | .06            | .07          | ---        | .01      | .04      | .06                     | .02     |
| 4250                 | .02             | .04                    | .02                         | .04                  | .06            | .08          | ---        | .01      | .05      | .07                     | .02     |
| 4500                 | .02             | .05                    | .02                         | .05                  | .07            | .09          | ---        | .01      | .05      | .07                     | .02     |
| 4750                 | .02             | .05                    | .02                         | .05                  | .08            | .10          | ---        | .02      | .05      | .08                     | .03     |
| 5000                 | .02             | .05                    | .02                         | .05                  | .09            | .11          | ---        | .02      | .06      | .08                     | .03     |
| 5250                 | .02             | .06                    | .03                         | .06                  | .10            | .12          | ---        | .02      | .06      | .09                     | .04     |
| 5500                 | .02             | .07                    | .03                         | .06                  | .10            | .13          | ---        | .02      | .06      | .10                     | .04     |
| 5750                 | .03             | .07                    | .03                         | .06                  | .11            | .14          | ---        | .02      | .07      | .11                     | .05     |
| 6000                 | .03             | .08                    | .03                         | .07                  | .12            | .15          | ---        | .03      | .07      | .11                     | .06     |
| 6250                 | .03             | .08                    | .03                         | .07                  | .12            | .16          | .01        | .03      | .07      | .12                     | .07     |
| 6500                 | .03             | .09                    | .04                         | .08                  | .13            | .17          | .02        | .03      | .08      | .13                     | .08     |
| 6750                 | .04             | .10                    | .04                         | .08                  | .14            | .18          | .03        | .03      | .08      | .14                     | .08     |
| 7000                 | .04             | .10                    | .04                         | .09                  | .15            | .19          | .04        | .04      | .08      | .15                     | .09     |
| 7250                 | .04             | .11                    | .04                         | .09                  | .16            | .20          | .05        | .04      | .09      | .16                     | .10     |
| 7500                 | .05             | .12                    | .05                         | .10                  | .17            | .21          | .06        | .04      | .09      | .17                     | .11     |
| 8000                 | .05             | .13                    | .05                         | .11                  | .19            | .24          | .09        | .05      | .10      | .19                     | .13     |
| 8500                 | .06             | .15                    | .05                         | .12                  | .20            | .26          | .11        | .05      | .10      | .21                     | .15     |
| 9000                 | .07             | .16                    | .06                         | .13                  | .23            | .29          | .14        | .06      | .11      | .24                     | .17     |
| 9500                 | .08             | .18                    | .07                         | .14                  | .25            | .32          | .16        | .07      | .12      | .26                     | .19     |
| 10,000               | .08             | .20                    | .07                         | .16                  | .27            | .35          | .19        | .07      | .12      | .29                     | .21     |
| 10,500               | .09             | .22                    | .08                         | .17                  | .30            | .38          | .22        | .08      | .13      | .31                     | .24     |
| 11,000               | .11             | .24                    | .08                         | .18                  | .31            | .40          | .25        | .09      | .14      | .34                     | .27     |



## BLOWER DATA

### POWER EXHAUST FAN PERFORMANCE

| Return Air System Static Pressure | Air Volume Exhausted |
|-----------------------------------|----------------------|
| in. w.g.                          | cfm                  |
| 0.00                              | 8630                 |
| 0.05                              | 8210                 |
| 0.10                              | 7725                 |
| 0.15                              | 7110                 |
| 0.20                              | 6470                 |
| 0.25                              | 5790                 |
| 0.30                              | 5060                 |
| 0.35                              | 4300                 |
| 0.40                              | 3510                 |
| 0.45                              | 2690                 |
| 0.50                              | 1840                 |

### CEILING DIFFUSER AIR RESISTANCE - in. w.g.

| Air Volume<br>cfm | Step-Down Diffuser |                    |                       |             |                    |                       | Flush Diffuser |           |
|-------------------|--------------------|--------------------|-----------------------|-------------|--------------------|-----------------------|----------------|-----------|
|                   | RTD11-185S         |                    |                       | RTD11-275S  |                    |                       | FD11-185S      | FD11-275S |
|                   | 2 Ends Open        | 1 Side/2 Ends Open | All Ends & Sides Open | 2 Ends Open | 1 Side/2 Ends Open | All Ends & Sides Open |                |           |
| 5000              | .51                | .44                | .39                   | ---         | ---                | ---                   | .27            | ---       |
| 5200              | .56                | .48                | .42                   | ---         | ---                | ---                   | .30            | ---       |
| 5400              | .61                | .52                | .45                   | ---         | ---                | ---                   | .33            | ---       |
| 5600              | .66                | .56                | .48                   | ---         | ---                | ---                   | .36            | ---       |
| 5800              | .71                | .59                | .51                   | ---         | ---                | ---                   | .39            | ---       |
| 6000              | .76                | .63                | .55                   | .36         | .31                | .27                   | .42            | .29       |
| 6200              | .80                | .68                | .59                   | ---         | ---                | ---                   | .46            | ---       |
| 6400              | .86                | .72                | .63                   | ---         | ---                | ---                   | .50            | ---       |
| 6500              | ---                | ---                | ---                   | .42         | .36                | .31                   | ---            | .34       |
| 6600              | .92                | .77                | .67                   | ---         | ---                | ---                   | .54            | ---       |
| 6800              | .99                | .83                | .72                   | ---         | ---                | ---                   | .58            | ---       |
| 7000              | 1.03               | .87                | .76                   | .49         | .41                | .36                   | .62            | .40       |
| 7200              | 1.09               | .92                | .80                   | ---         | ---                | ---                   | .66            | ---       |
| 7400              | 1.15               | .97                | .84                   | ---         | ---                | ---                   | .70            | ---       |
| 7500              | ---                | ---                | ---                   | .51         | .46                | .41                   | ---            | .45       |
| 7600              | 1.20               | 1.02               | .88                   | ---         | ---                | ---                   | .74            | ---       |
| 8000              | ---                | ---                | ---                   | .59         | .49                | .43                   | ---            | .50       |
| 8500              | ---                | ---                | ---                   | .69         | .58                | .50                   | ---            | .57       |
| 9000              | ---                | ---                | ---                   | .79         | .67                | .58                   | ---            | .66       |
| 9500              | ---                | ---                | ---                   | .89         | .75                | .65                   | ---            | .74       |
| 10,000            | ---                | ---                | ---                   | 1.00        | .84                | .73                   | ---            | .81       |
| 10,500            | ---                | ---                | ---                   | 1.10        | .92                | .80                   | ---            | .89       |
| 11,000            | ---                | ---                | ---                   | 1.21        | 1.01               | .88                   | ---            | .96       |

### CEILING DIFFUSER AIR THROW DATA - ft.

| Model No.  | Air Volume cfm | <sup>1</sup> Effective Throw Range - ft. |                 | Model No.         | Air Volume cfm | <sup>1</sup> Effective Throw Range - ft. |                 |
|------------|----------------|------------------------------------------|-----------------|-------------------|----------------|------------------------------------------|-----------------|
|            |                | RTD11-185S Step-Down                     | FD11-185S Flush |                   |                | RTD11-275S Step-Down                     | FD11-275S Flush |
| 156<br>180 | 5600           | 39 - 49                                  | 28 - 37         | 210<br>240<br>300 | 7200           | 33 - 38                                  | 26 - 35         |
|            | 5800           | 42 - 51                                  | 29 - 38         |                   | 7400           | 35 - 40                                  | 28 - 37         |
|            | 6000           | 44 - 54                                  | 40 - 50         |                   | 7600           | 36 - 41                                  | 29 - 38         |
|            | 6200           | 45 - 55                                  | 42 - 51         |                   | 7800           | 38 - 43                                  | 40 - 50         |
|            | 6400           | 46 - 55                                  | 43 - 52         |                   | 8000           | 39 - 44                                  | 42 - 51         |
|            | 6600           | 47 - 56                                  | 45 - 56         |                   | 8200           | 41 - 46                                  | 43 - 52         |
|            |                |                                          |                 |                   | 8400           | 43 - 49                                  | 44 - 54         |
|            |                |                                          |                 |                   | 8600           | 44 - 50                                  | 46 - 57         |
|            |                |                                          |                 |                   | 8800           | 47 - 55                                  | 48 - 59         |
|            |                |                                          |                 |                   |                |                                          |                 |

<sup>1</sup> Throw is the horizontal or vertical distance an airstream travels on leaving the outletor diffuser before the maximum velocity is reduced to 50 ft. per minute. Four sides open.



|                        |               |
|------------------------|---------------|
| <b>ELECTRICAL DATA</b> | <b>13 TON</b> |
|------------------------|---------------|

|                               |                 |
|-------------------------------|-----------------|
| <b>13 TON HIGH EFFICIENCY</b> | <b>LGH156H4</b> |
|-------------------------------|-----------------|

| <sup>1</sup> Voltage - 60hz                 |                                | 208/230V - 3 Ph |      |      | 460V - 3 Ph |     |     | 575V - 3 Ph |     |     |
|---------------------------------------------|--------------------------------|-----------------|------|------|-------------|-----|-----|-------------|-----|-----|
| Compressor 1                                | Rated Load Amps                | 14.5            |      |      | 6.3         |     |     | 6           |     |     |
|                                             | Locked Rotor Amps              | 98              |      |      | 55          |     |     | 41          |     |     |
| Compressor 2                                | Rated Load Amps                | 14.5            |      |      | 6.3         |     |     | 6           |     |     |
|                                             | Locked Rotor Amps              | 98              |      |      | 55          |     |     | 41          |     |     |
| Compressor 3                                | Rated Load Amps                | 14.5            |      |      | 6.3         |     |     | 6           |     |     |
|                                             | Locked Rotor Amps              | 98              |      |      | 55          |     |     | 41          |     |     |
| Outdoor Fan Motors (3)                      | Full Load Amps                 | 2.4             |      |      | 1.3         |     |     | 1           |     |     |
|                                             | (total)                        | (7.2)           |      |      | (3.9)       |     |     | (3)         |     |     |
| Power Exhaust (2) 0.33 HP                   | Full Load Amps                 | 2.4             |      |      | 1.3         |     |     | 1           |     |     |
|                                             | (total)                        | (4.8)           |      |      | (2.6)       |     |     | (2)         |     |     |
| Service Outlet 115V GFI (amps)              |                                | 15              |      |      | 15          |     |     | 20          |     |     |
| Indoor Blower Motor                         | Horsepower                     | 2               | 3    | 5    | 2           | 3   | 5   | 2           | 3   | 5   |
|                                             | Full Load Amps                 | 7.5             | 10.6 | 16.7 | 3.4         | 4.8 | 7.6 | 2.7         | 3.9 | 6.1 |
| <sup>2</sup> Maximum Overcurrent Protection | Unit Only                      | 70              | 70   | 80   | 30          | 35  | 35  | 30          | 30  | 30  |
|                                             | With (2) 0.33 HP Power Exhaust | 80              | 80   | 90   | 35          | 35  | 40  | 30          | 30  | 35  |
| <sup>3</sup> Minimum Circuit Ampacity       | Unit Only                      | 62              | 65   | 72   | 28          | 30  | 33  | 26          | 27  | 29  |
|                                             | With (2) 0.33 HP Power Exhaust | 67              | 70   | 77   | 31          | 32  | 35  | 28          | 29  | 31  |

|                        |               |
|------------------------|---------------|
| <b>ELECTRICAL DATA</b> | <b>15 TON</b> |
|------------------------|---------------|

|                               |                 |
|-------------------------------|-----------------|
| <b>15 TON HIGH EFFICIENCY</b> | <b>LGH180H4</b> |
|-------------------------------|-----------------|

| <sup>1</sup> Voltage - 60hz                 |                                | 208/230V - 3 Ph |      |      | 460V - 3 Ph |     |     | 575V - 3 Ph |     |     |
|---------------------------------------------|--------------------------------|-----------------|------|------|-------------|-----|-----|-------------|-----|-----|
| Compressor 1                                | Rated Load Amps                | 13.2            |      |      | 6.3         |     |     | 4.9         |     |     |
|                                             | Locked Rotor Amps              | 93              |      |      | 60          |     |     | 41          |     |     |
| Compressor 2                                | Rated Load Amps                | 13.2            |      |      | 6.3         |     |     | 4.9         |     |     |
|                                             | Locked Rotor Amps              | 93              |      |      | 60          |     |     | 41          |     |     |
| Compressor 3                                | Rated Load Amps                | 13.2            |      |      | 6.3         |     |     | 4.9         |     |     |
|                                             | Locked Rotor Amps              | 93              |      |      | 60          |     |     | 41          |     |     |
| Outdoor Fan Motors (4)                      | Full Load Amps                 | 2.4             |      |      | 1.3         |     |     | 1           |     |     |
|                                             | (total)                        | (9.6)           |      |      | (5.2)       |     |     | (4)         |     |     |
| Power Exhaust (2) 0.33 HP                   | Full Load Amps                 | 2.4             |      |      | 1.3         |     |     | 1           |     |     |
|                                             | (total)                        | (4.8)           |      |      | (2.6)       |     |     | (2)         |     |     |
| Service Outlet 115V GFI (amps)              |                                | 15              |      |      | 15          |     |     | 20          |     |     |
| Indoor Blower Motor                         | Horsepower                     | 3               | 5    | 7.5  | 3           | 5   | 7.5 | 3           | 5   | 7.5 |
|                                             | Full Load Amps                 | 10.6            | 16.7 | 24.2 | 4.8         | 7.6 | 11  | 3.9         | 6.1 | 9   |
| <sup>2</sup> Maximum Overcurrent Protection | Unit Only                      | 70              | 80   | 100  | 35          | 40  | 45  | 25          | 30  | 35  |
|                                             | With (2) 0.33 HP Power Exhaust | 80              | 90   | 100  | 35          | 40  | 50  | 30          | 30  | 40  |
| <sup>3</sup> Minimum Circuit Ampacity       | Unit Only                      | 64              | 71   | 80   | 31          | 34  | 38  | 24          | 27  | 30  |
|                                             | With (2) 0.33 HP Power Exhaust | 68              | 75   | 85   | 34          | 37  | 41  | 26          | 29  | 32  |

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.

<sup>2</sup> HACR type breaker or fuse.

<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

<sup>4</sup> Factory installed circuit breaker not available.

**ELECTRICAL DATA****17.5 TON****17.5 TON HIGH EFFICIENCY****LGH210H4**

| <sup>1</sup> Voltage - 60hz                 |                                | 208/230V - 3 Ph |      |      | 460V - 3 Ph |     |     | 575V - 3 Ph |     |     |
|---------------------------------------------|--------------------------------|-----------------|------|------|-------------|-----|-----|-------------|-----|-----|
| Compressor 1                                | Rated Load Amps                | 15.6            |      |      | 7.8         |     |     | 5.8         |     |     |
|                                             | Locked Rotor Amps              | 110             |      |      | 52          |     |     | 38.9        |     |     |
| Compressor 2                                | Rated Load Amps                | 15.6            |      |      | 7.8         |     |     | 5.8         |     |     |
|                                             | Locked Rotor Amps              | 110             |      |      | 52          |     |     | 38.9        |     |     |
| Compressor 3                                | Rated Load Amps                | 19.6            |      |      | 8.2         |     |     | 6.6         |     |     |
|                                             | Locked Rotor Amps              | 136             |      |      | 66.1        |     |     | 55.3        |     |     |
| Outdoor Fan Motors (6)                      | Full Load Amps                 | 2.4             |      |      | 1.3         |     |     | 1           |     |     |
|                                             | (total)                        | (14.4)          |      |      | (7.8)       |     |     | (6)         |     |     |
| Power Exhaust (2) 0.33 HP                   | Full Load Amps                 | 2.4             |      |      | 1.3         |     |     | 1           |     |     |
|                                             | (total)                        | (4.8)           |      |      | (2.6)       |     |     | (2)         |     |     |
| Service Outlet 115V GFI (amps)              |                                | 15              |      |      | 15          |     |     | 20          |     |     |
| Indoor Blower Motor                         | Horsepower                     | 3               | 5    | 7.5  | 3           | 5   | 7.5 | 3           | 5   | 7.5 |
|                                             | Full Load Amps                 | 10.6            | 16.7 | 24.2 | 4.8         | 7.6 | 11  | 3.9         | 6.1 | 9   |
| <sup>2</sup> Maximum Overcurrent Protection | Unit Only                      | 100             | 100  | 110  | 45          | 45  | 50  | 35          | 35  | 40  |
|                                             | With (2) 0.33 HP Power Exhaust | 100             | 110  | 110  | 45          | 50  | 50  | 35          | 40  | 45  |
| <sup>3</sup> Minimum Circuit Ampacity       | Unit Only                      | 81              | 87   | 96   | 39          | 42  | 46  | 30          | 32  | 36  |
|                                             | With (2) 0.33 HP Power Exhaust | 86              | 92   | 101  | 42          | 44  | 48  | 32          | 34  | 38  |

**ELECTRICAL DATA****20 TON****20 TON HIGH EFFICIENCY****LGH240H4**

| <sup>1</sup> Voltage - 60hz                 |                                | 208/230V - 3 Ph |      |      | 460V - 3 Ph |     |    | 575V - 3 Ph |     |    |
|---------------------------------------------|--------------------------------|-----------------|------|------|-------------|-----|----|-------------|-----|----|
| Compressor 1                                | Rated Load Amps                | 13.2            |      |      | 6.3         |     |    | 4.9         |     |    |
|                                             | Locked Rotor Amps              | 93              |      |      | 60          |     |    | 41          |     |    |
| Compressor 2                                | Rated Load Amps                | 13.2            |      |      | 6.3         |     |    | 4.9         |     |    |
|                                             | Locked Rotor Amps              | 93              |      |      | 60          |     |    | 41          |     |    |
| Compressor 3                                | Rated Load Amps                | 13.2            |      |      | 6.3         |     |    | 4.9         |     |    |
|                                             | Locked Rotor Amps              | 93              |      |      | 60          |     |    | 41          |     |    |
| Compressor 4                                | Rated Load Amps                | 13.2            |      |      | 6.3         |     |    | 4.9         |     |    |
|                                             | Locked Rotor Amps              | 93              |      |      | 60          |     |    | 41          |     |    |
| Outdoor Fan Motors (6)                      | Full Load Amps                 | 2.4             |      |      | 1.3         |     |    | 1           |     |    |
|                                             | (total)                        | (14.4)          |      |      | (7.8)       |     |    | (6)         |     |    |
| Power Exhaust (2) 0.33 HP                   | Full Load Amps                 | 2.4             |      |      | 1.3         |     |    | 1           |     |    |
|                                             | (total)                        | (4.8)           |      |      | (2.6)       |     |    | (2)         |     |    |
| Service Outlet 115V GFI (amps)              |                                | 15              |      |      | 15          |     |    | 20          |     |    |
| Indoor Blower Motor                         | Horsepower                     | 5               | 7.5  | 10   | 5           | 7.5 | 10 | 5           | 7.5 | 10 |
|                                             | Full Load Amps                 | 16.7            | 24.2 | 30.8 | 7.6         | 11  | 14 | 6.1         | 9   | 11 |
| <sup>2</sup> Maximum Overcurrent Protection | Unit Only                      | 100             | 110  | 125  | 50          | 50  | 60 | 35          | 45  | 50 |
|                                             | With (2) 0.33 HP Power Exhaust | 100             | 125  | 125  | 50          | 60  | 60 | 40          | 45  | 50 |
| <sup>3</sup> Minimum Circuit Ampacity       | Unit Only                      | 89              | 98   | 106  | 43          | 47  | 51 | 34          | 37  | 40 |
|                                             | With (2) 0.33 HP Power Exhaust | 93              | 103  | 111  | 46          | 50  | 54 | 36          | 39  | 42 |

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.<sup>4</sup> Factory installed circuit breaker not available.

**ELECTRICAL DATA****25 TON****25 TON STANDARD EFFICIENCY****LGH300S4**

| <sup>1</sup> Voltage - 60hz                 |                                | 208/230V - 3 Ph |      |      | 460V - 3 Ph |     |    | 575V - 3 Ph |     |    |
|---------------------------------------------|--------------------------------|-----------------|------|------|-------------|-----|----|-------------|-----|----|
| Compressor 1                                | Rated Load Amps                | 19.6            |      |      | 8.2         |     |    | 6.6         |     |    |
|                                             | Locked Rotor Amps              | 136             |      |      | 66.1        |     |    | 55.3        |     |    |
| Compressor 2                                | Rated Load Amps                | 19.6            |      |      | 8.2         |     |    | 6.6         |     |    |
|                                             | Locked Rotor Amps              | 136             |      |      | 66.1        |     |    | 55.3        |     |    |
| Compressor 3                                | Rated Load Amps                | 22.4            |      |      | 10.6        |     |    | 7.7         |     |    |
|                                             | Locked Rotor Amps              | 149             |      |      | 75          |     |    | 54          |     |    |
| Compressor 4                                | Rated Load Amps                | 22.4            |      |      | 10.6        |     |    | 7.7         |     |    |
|                                             | Locked Rotor Amps              | 149             |      |      | 75          |     |    | 54          |     |    |
| Outdoor Fan Motors (6)                      | Full Load Amps (total)         | 2.4 (14.4)      |      |      | 1.3 (7.8)   |     |    | 1 (6)       |     |    |
| Power Exhaust (2) 0.33 HP                   | Full Load Amps (total)         | 2.4 (4.8)       |      |      | 1.3 (2.6)   |     |    | 1 (2)       |     |    |
| Service Outlet 115V GFI (amps)              |                                | 15              |      |      | 15          |     |    | 20          |     |    |
| Indoor Blower Motor                         | Horsepower                     | 5               | 7.5  | 10   | 5           | 7.5 | 10 | 5           | 7.5 | 10 |
|                                             | Full Load Amps                 | 16.7            | 24.2 | 30.8 | 7.6         | 11  | 14 | 6.1         | 9   | 11 |
| <sup>2</sup> Maximum Overcurrent Protection | Unit Only                      | 125             | 150  | 150  | 60          | 70  | 70 | 50          | 50  | 50 |
|                                             | With (2) 0.33 HP Power Exhaust | 150             | 150  | 150  | 60          | 70  | 70 | 50          | 50  | 60 |
| <sup>3</sup> Minimum Circuit Ampacity       | Unit Only                      | 121             | 129  | 137  | 56          | 60  | 63 | 45          | 46  | 49 |
|                                             | With (2) 0.33 HP Power Exhaust | 126             | 134  | 142  | 59          | 62  | 66 | 45          | 48  | 51 |

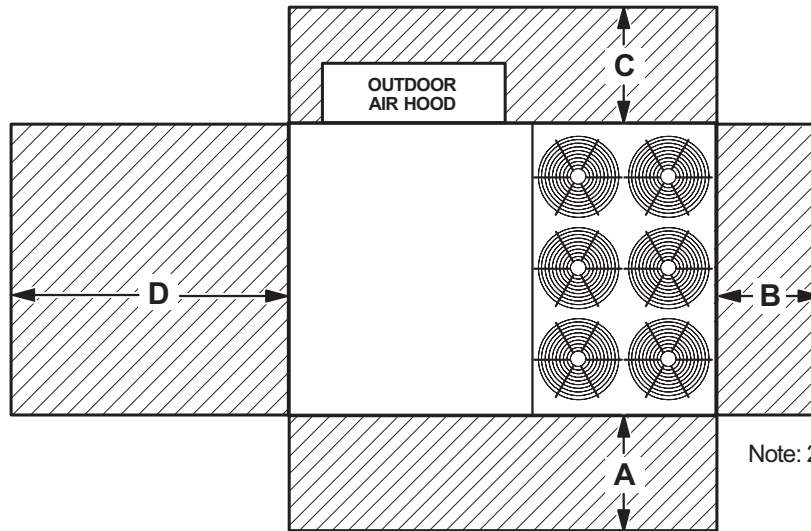
NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.<sup>4</sup> Factory installed circuit breaker not available.**ELECTRICAL ACCESSORIES****DISCONNECTS**

| Voltage               | 208V     | 240V  | 208V  | 240V  | 208V  | 240V  | 460V  | 460V  | 460V  | 575V  | 575V  | 575V  |
|-----------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Model No.             | LGH156H4 |       |       |       |       |       |       |       |       |       |       |       |
| Blower Motor HP       | 2        |       | 3     |       | 5     |       | 2     | 3     | 5     | 2     | 3     | 5     |
| Unit Only             | 54W88    | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 |
| Unit w/ Power Exhaust | 54W88    | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 |
| Model No.             | LGH180H4 |       |       |       |       |       |       |       |       |       |       |       |
| Blower Motor HP       | 3        |       | 5     |       | 7.5   |       | 3     | 5     | 7.5   | 3     | 5     | 7.5   |
| Unit Only             | 54W88    | 54W88 | 54W88 | 54W88 | 54W89 | 54W89 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 |
| Unit w/ Power Exhaust | 54W88    | 54W88 | 54W89 | 54W89 | 54W89 | 54W89 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 |
| Model No.             | LGH210H4 |       |       |       |       |       |       |       |       |       |       |       |
| Blower Motor HP       | 3        |       | 5     |       | 7.5   |       | 3     | 5     | 7.5   | 3     | 5     | 7.5   |
| Unit Only             | 54W89    | 54W89 | 54W89 | 54W89 | 54W89 | 54W89 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 |
| Unit w/ Power Exhaust | 54W89    | 54W89 | 54W89 | 54W89 | 54W89 | 54W89 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 |
| Model No.             | LGH240H4 |       |       |       |       |       |       |       |       |       |       |       |
| Blower Motor HP       | 5        |       | 7.5   |       | 10    |       | 5     | 7.5   | 10    | 5     | 7.5   | 10    |
| Unit Only             | 54W89    | 54W89 | 54W89 | 54W89 | 54W89 | 54W89 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 |
| Unit w/ Power Exhaust | 54W89    | 54W89 | 54W89 | 54W89 | 54W89 | 54W89 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 |
| Model No.             | LGH300S4 |       |       |       |       |       |       |       |       |       |       |       |
| Blower Motor HP       | 5        |       | 7.5   |       | 10    |       | 5     | 7.5   | 10    | 5     | 7.5   | 10    |
| Unit Only             | 54W89    | 54W89 | 54W89 | 54W89 | 54W89 | 54W89 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 |
| Unit w/ Power Exhaust | 54W89    | 54W89 | 54W89 | 54W89 | 90W82 | 90W82 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 | 54W88 |

## INSTALLATION CLEARANCES

### Unit With Economizer



Note: 210-240-300 sizes shown

| <sup>1</sup> Unit Clearance        | A   |      | B   |     | C   |     | D   |      | Top Clearance |
|------------------------------------|-----|------|-----|-----|-----|-----|-----|------|---------------|
|                                    | in. | mm   | in. | mm  | in. | mm  | in. | mm   |               |
| <b>Service Clearance</b>           | 60  | 1524 | 36  | 914 | 36  | 934 | 66  | 1676 | Unobstructed  |
| <b>Clearance to Combustibles</b>   | 36  | 914  | 1   | 25  | 1   | 25  | 1   | 25   |               |
| <b>Minimum Operation Clearance</b> | 45  | 1143 | 36  | 914 | 36  | 914 | 41  | 1041 |               |

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

<sup>1</sup> **Service Clearance** - Required for removal of serviceable parts.

**Clearance to Combustibles** - Required clearance to combustible material.

**Minimum Operation Clearance** - Required clearance for proper unit operation.

## OUTDOOR SOUND DATA

| Unit Model Number | Octave Band Sound Power Levels dBA, re 10 <sup>-12</sup> Watts - Center Frequency - Hz |     |     |      |      |      |      | <sup>1</sup> Sound Rating Number (dBA) |
|-------------------|----------------------------------------------------------------------------------------|-----|-----|------|------|------|------|----------------------------------------|
|                   | 125                                                                                    | 250 | 500 | 1000 | 2000 | 4000 | 8000 |                                        |
| 156               | 71                                                                                     | 78  | 81  | 81   | 76   | 71   | 63   | 86                                     |
| 180               | 80                                                                                     | 83  | 87  | 88   | 84   | 80   | 71   | 93                                     |
| 210, 240, 300     | 79                                                                                     | 84  | 88  | 89   | 85   | 82   | 73   | 94                                     |

Note - The octave sound power data does not include tonal corrections.

<sup>1</sup> Sound Rating Number according to AHRI Standard 370-2001 (includes pure tone penalty). Sound Rating Number is the overall A-Weighted Sound Power Level, (LWA), dBA (100 Hz to 10,000 Hz).

## WEIGHT DATA

| Model Number  | Outdoor Coil | Net  |      | Shipping |      | Outdoor Coil | Net  |      | Shipping |      |
|---------------|--------------|------|------|----------|------|--------------|------|------|----------|------|
|               |              | lbs. | kg   | lbs.     | kg   |              | lbs. | kg   | lbs.     | kg   |
| 156 Base Unit | Eco-Last™    | 1935 | 878  | 2135     | 968  | Fin/Tube     | 2000 | 907  | 2200     | 998  |
| 156 Max. Unit | Eco-Last™    | 2205 | 1000 | 2405     | 1091 | Fin/Tube     | 2270 | 1030 | 2470     | 1120 |
| 180 Base Unit | Eco-Last™    | 2115 | 959  | 2315     | 1050 | Fin/Tube     | 2220 | 1007 | 2420     | 1098 |
| 180 Max. Unit | Eco-Last™    | 2400 | 1089 | 2600     | 1179 | Fin/Tube     | 2505 | 1136 | 2705     | 1227 |
| 210 Base Unit | Eco-Last™    | 2240 | 1016 | 2440     | 1107 | Fin/Tube     | 2330 | 1057 | 2530     | 1148 |
| 210 Max. Unit | Eco-Last™    | 2525 | 1145 | 2725     | 1236 | Fin/Tube     | 2615 | 1186 | 2815     | 1277 |
| 240 Base Unit | Eco-Last™    | 2325 | 1055 | 2525     | 1145 | Fin/Tube     | 2430 | 1102 | 2630     | 1193 |
| 240 Max. Unit | Eco-Last™    | 2610 | 1184 | 2810     | 1275 | Fin/Tube     | 2715 | 1232 | 2915     | 1322 |
| 300 Base Unit | Eco-Last™    | 2450 | 1111 | 2650     | 1202 | Fin/Tube     | 2515 | 1141 | 2715     | 1232 |
| 300 Max. Unit | Eco-Last™    | 2735 | 1241 | 2935     | 1331 | Fin/Tube     | 2800 | 1270 | 3000     | 1361 |

Max. Unit - The unit with ALL INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit.

## OPTIONS / ACCESSORIES

| Description       |             | Shipping Weight |     |
|-------------------|-------------|-----------------|-----|
|                   |             | lbs.            | kg  |
| CEILING DIFFUSERS |             |                 |     |
| Step-Down         | RTD11-185S  | 168             | 76  |
|                   | RTD11-275S  | 238             | 108 |
| Flush             | FD11-185S   | 168             | 76  |
|                   | FD11-275S   | 238             | 108 |
| Transitions       | C1DIFF33C-1 | 80              | 36  |
|                   | C1DIFF34C-1 | 75              | 34  |

### ECONOMIZER / OUTDOOR AIR / EXHAUST

|                                                                    |     |    |
|--------------------------------------------------------------------|-----|----|
| <b>Economizer</b>                                                  |     |    |
| Economizer Dampers                                                 | 102 | 46 |
| Barometric Relief Dampers (downflow)                               | 30  | 14 |
| Barometric Relief Dampers (horizontal)                             | 20  | 9  |
| Outdoor Air Damper Hood (downflow)                                 | 65  | 29 |
| <b>Outdoor Air Dampers</b>                                         |     |    |
| Outdoor Air Damper Section (downflow) - Automatic (including Hood) | 18  | 39 |
| Outdoor Air Damper Section (downflow) - Manual (including Hood)    | 10  | 22 |
| <b>Power Exhaust</b>                                               | 62  | 28 |

### GAS HEAT EXCHANGER (NET WEIGHT)

|                                        |    |    |
|----------------------------------------|----|----|
| Medium Heat (adder over standard heat) | 18 | 8  |
| High Heat (adder over standard heat)   | 64 | 29 |

### DEHUMIDIFICATION SYSTEM

|                                      |    |    |
|--------------------------------------|----|----|
| Dehumidification Option (Net Weight) | 50 | 23 |
|--------------------------------------|----|----|

### SINGLE ZONE VAV SUPPLY FAN

|                                                          |    |   |
|----------------------------------------------------------|----|---|
| Variable Frequency Drive (VFD) and associated components | 10 | 5 |
|----------------------------------------------------------|----|---|

### ROOF CURBS

|                                        |     |     |
|----------------------------------------|-----|-----|
| <b>Hybrid Roof Curbs, Downflow</b>     |     |     |
| 8 in. height                           | 75  | 34  |
| 14 in. height                          | 105 | 48  |
| 18 in. height                          | 125 | 57  |
| 24 in. height                          | 155 | 70  |
| <b>Adjustable Pitch Curb, Downflow</b> |     |     |
| 14 in. height                          | 262 | 119 |
| <b>Horizontal, Standard</b>            |     |     |
| 26 in. height                          | 470 | 213 |
| 37 in. height                          | 505 | 229 |
| 30 in. height                          | 575 | 261 |
| 41 in. height                          | 610 | 277 |

### PACKAGING

|                                      |     |     |
|--------------------------------------|-----|-----|
| LTL Packaging (less than truck load) | 310 | 141 |
|--------------------------------------|-----|-----|

# DIMENSIONS - UNIT

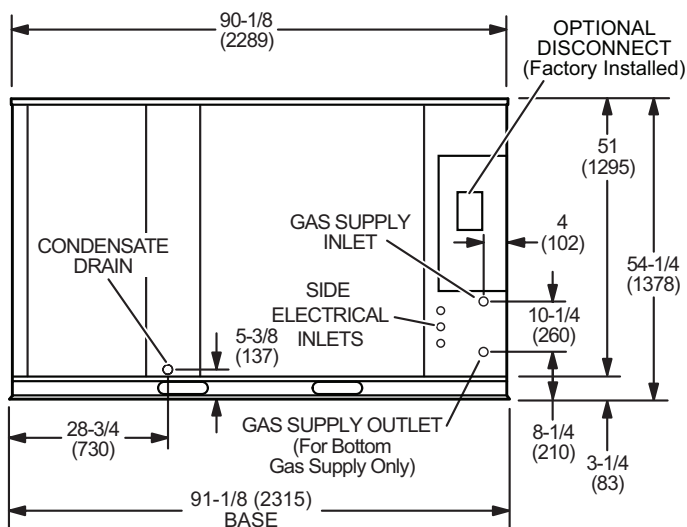
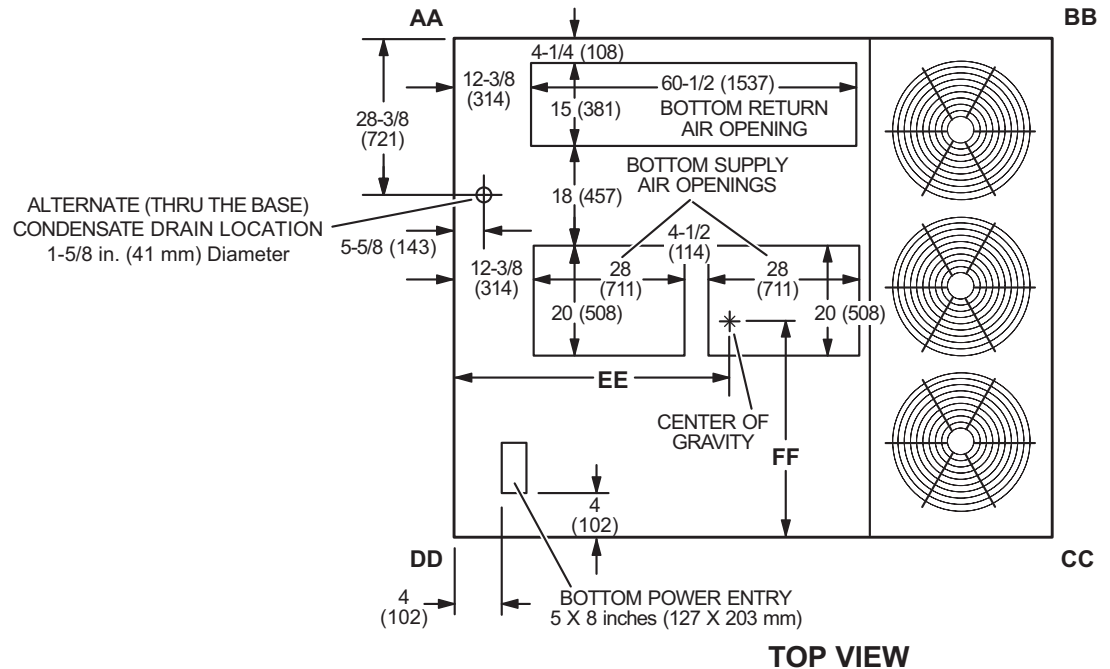
LGH156

## CORNER WEIGHTS

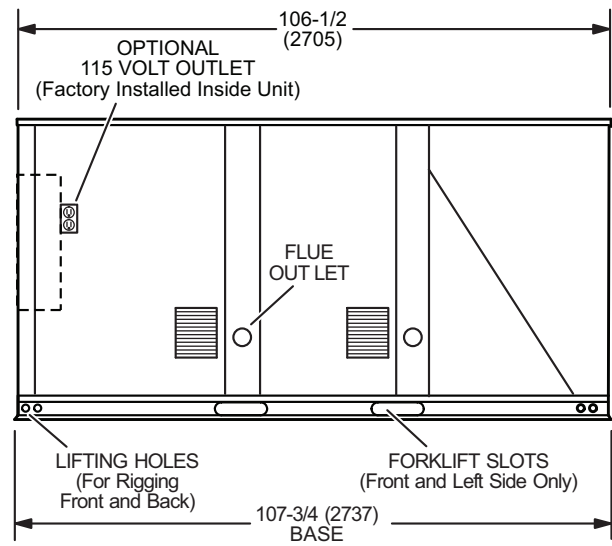
| Model No.                         | AA   |     | BB   |     | CC   |     | DD   |     | CENTER OF GRAVITY |      | FF     |      |
|-----------------------------------|------|-----|------|-----|------|-----|------|-----|-------------------|------|--------|------|
|                                   | lbs. | kg  | lbs. | kg  | lbs. | kg  | lbs. | kg  | in.               | mm   | in.    | mm   |
| LGH156 Base Unit (Eco-Last™ Coil) | 473  | 215 | 367  | 167 | 483  | 219 | 612  | 278 | 47-1/4            | 1200 | 39-1/2 | 1003 |
| LGH156 Max. Unit (Eco-Last™ Coil) | 586  | 266 | 447  | 203 | 510  | 232 | 663  | 301 | 46-3/4            | 1187 | 42-3/4 | 1086 |
| LGH156 Base Unit (Fin/Tube Coil)  | 476  | 216 | 397  | 180 | 513  | 233 | 615  | 279 | 49                | 1245 | 39-3/4 | 1010 |
| LGH156 Max. Unit (Fin/Tube Coil)  | 588  | 267 | 477  | 216 | 540  | 245 | 665  | 302 | 48-1/4            | 1226 | 42-3/4 | 1086 |

Base Unit - The unit with NO INTERNAL OPTIONS.

Max. Unit - The unit with ALL INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit.



END VIEW



SIDE VIEW



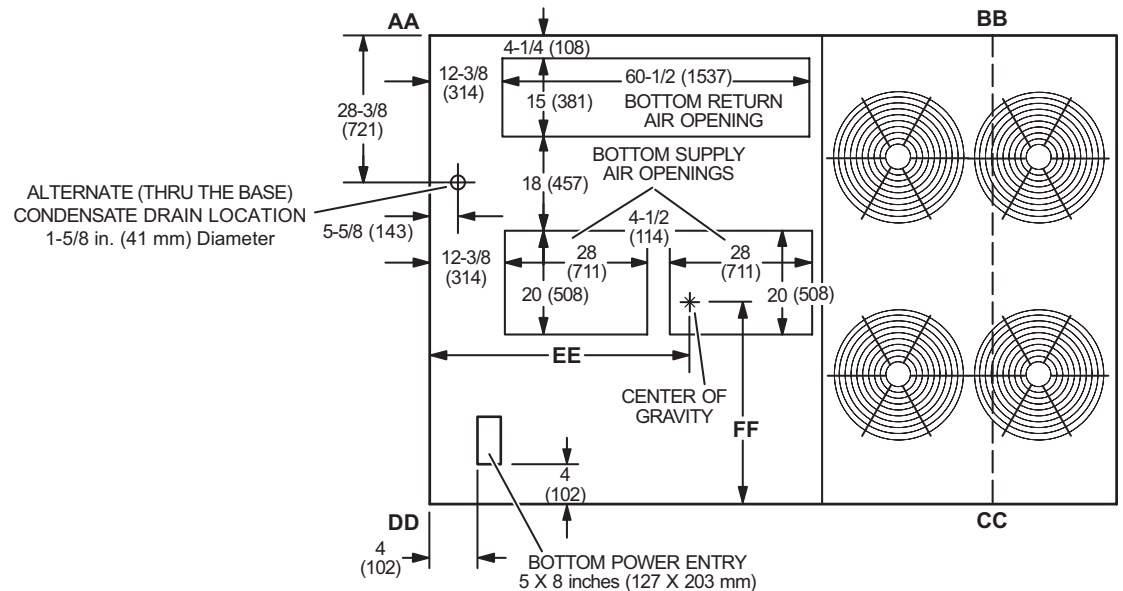
# DIMENSIONS - UNIT

LGH180

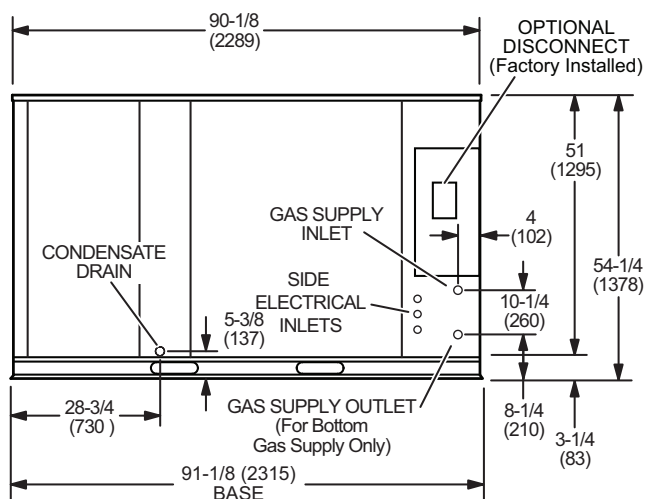
| CORNER WEIGHTS                    |      |     |      |     |      |     |      |     |  | CENTER OF GRAVITY |      |        |      |
|-----------------------------------|------|-----|------|-----|------|-----|------|-----|--|-------------------|------|--------|------|
| Model No.                         | AA   |     | BB   |     | CC   |     | DD   |     |  | EE                |      | FF     |      |
|                                   | lbs. | kg  | lbs. | kg  | lbs. | kg  | lbs. | kg  |  | in.               | mm   | in.    | mm   |
| LGH180 Base Unit (Eco-Last™ Coil) | 487  | 221 | 423  | 192 | 569  | 259 | 636  | 289 |  | 50-3/4            | 1289 | 39-1/4 | 997  |
| LGH180 Max. Unit (Eco-Last™ Coil) | 597  | 272 | 505  | 229 | 599  | 272 | 699  | 318 |  | 49-3/4            | 1264 | 42     | 1067 |
| LGH180 Base Unit (Fin/Tube)       | 487  | 221 | 476  | 216 | 622  | 282 | 636  | 288 |  | 53-1/4            | 1353 | 39-1/2 | 1003 |
| LGH180 Max. Unit (Fin/Tube)       | 597  | 271 | 557  | 253 | 652  | 296 | 699  | 317 |  | 52                | 1321 | 42     | 1067 |

Base Unit - The unit with NO INTERNAL OPTIONS.

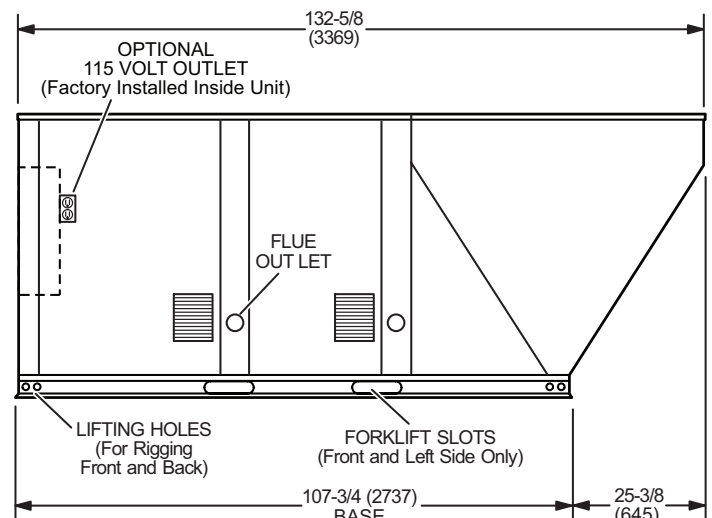
Max. Unit - The unit with ALL INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit.



TOP VIEW



END VIEW



SIDE VIEW

# DIMENSIONS - UNIT

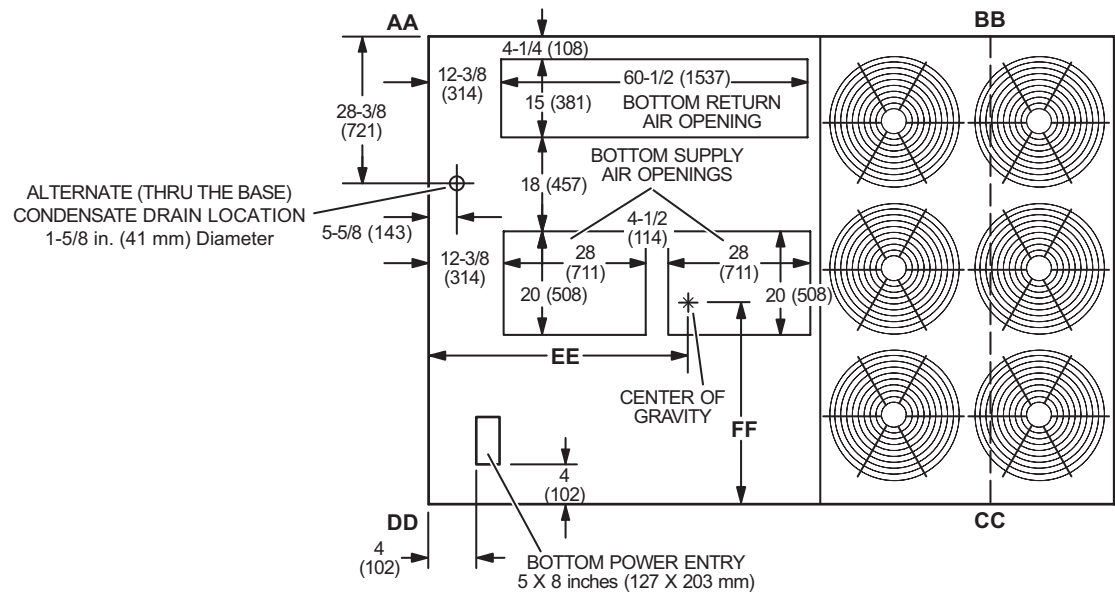
LGH210 | LGH240 | IGH300

## CORNER WEIGHTS

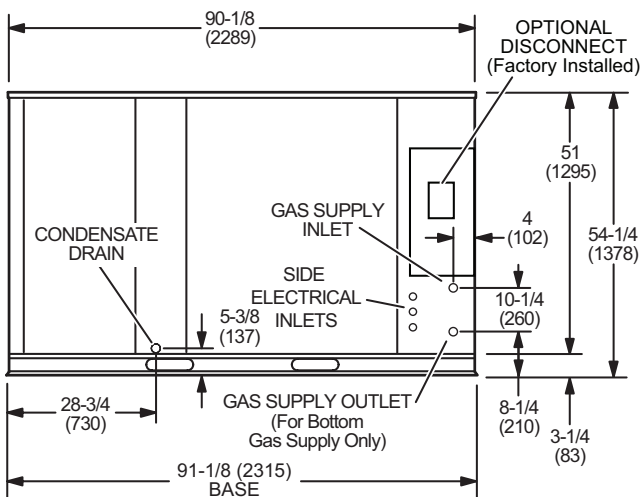
| Model No.                         | AA   |     | BB   |     | CC   |     | DD   |     | EE     |      | FF     |      |
|-----------------------------------|------|-----|------|-----|------|-----|------|-----|--------|------|--------|------|
|                                   | lbs. | kg  | lbs. | kg  | lbs. | kg  | lbs. | kg  | in.    | mm   | in.    | mm   |
| LGH210 Base Uni (Eco-Last™ Coil)  | 497  | 226 | 468  | 213 | 626  | 284 | 649  | 295 | 52-3/4 | 1340 | 39-1/4 | 997  |
| LGH210 Max. Unit (Eco-Last™ Coil) | 607  | 276 | 553  | 252 | 655  | 298 | 710  | 323 | 51-1/2 | 1308 | 42     | 1067 |
| LGH210 Base Unit (Fin/TubeCoil)   | 497  | 225 | 513  | 233 | 671  | 304 | 649  | 294 | 54-3/4 | 1391 | 39-1/2 | 1003 |
| LGH210 Max. Unit (Fin/TubeCoil)   | 607  | 275 | 598  | 271 | 700  | 318 | 710  | 322 | 53-1/2 | 1359 | 42     | 1067 |
| LGH240 Base Unit (Eco-Last™ Coil) | 507  | 230 | 481  | 219 | 660  | 300 | 677  | 308 | 53     | 1346 | 38-3/4 | 984  |
| LGH240 Max. Unit (Eco-Last™ Coil) | 617  | 280 | 567  | 258 | 688  | 313 | 738  | 335 | 52     | 1321 | 41-1/2 | 1054 |
| LGH240 Base Unit (Fin/TubeCoil)   | 507  | 230 | 533  | 242 | 713  | 323 | 677  | 307 | 55-1/4 | 1403 | 39     | 991  |
| LGH240 Max. Unit (Fin/TubeCoil)   | 617  | 280 | 620  | 281 | 741  | 336 | 738  | 335 | 54     | 1372 | 41-1/2 | 1054 |
| LGH300 Base Unit (Eco-Last™ Coil) | 500  | 227 | 522  | 237 | 731  | 332 | 699  | 318 | 55     | 1397 | 38     | 965  |
| LGH300 Max. Unit (Eco-Last™ Coil) | 609  | 277 | 607  | 276 | 759  | 345 | 761  | 346 | 53-3/4 | 1365 | 40-1/2 | 1029 |
| LGH300 Base Unit (Fin/Tube Coil)  | 524  | 238 | 518  | 236 | 733  | 333 | 741  | 337 | 53-1/2 | 1359 | 37-3/4 | 959  |
| LGH300 Max. Unit (Fin/Tube Coil)  | 638  | 290 | 608  | 276 | 759  | 345 | 797  | 362 | 52-1/2 | 1334 | 40-1/2 | 1029 |

Base Unit - The unit with NO INTERNAL OPTIONS.

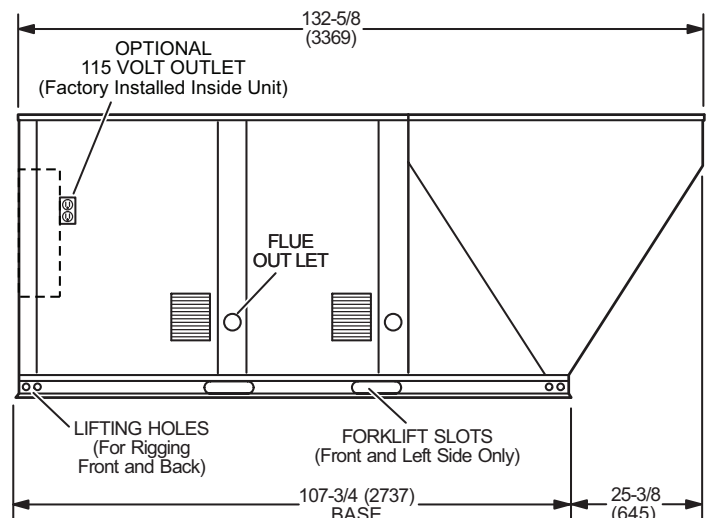
Max. Unit - The unit with ALL INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit.



TOP VIEW



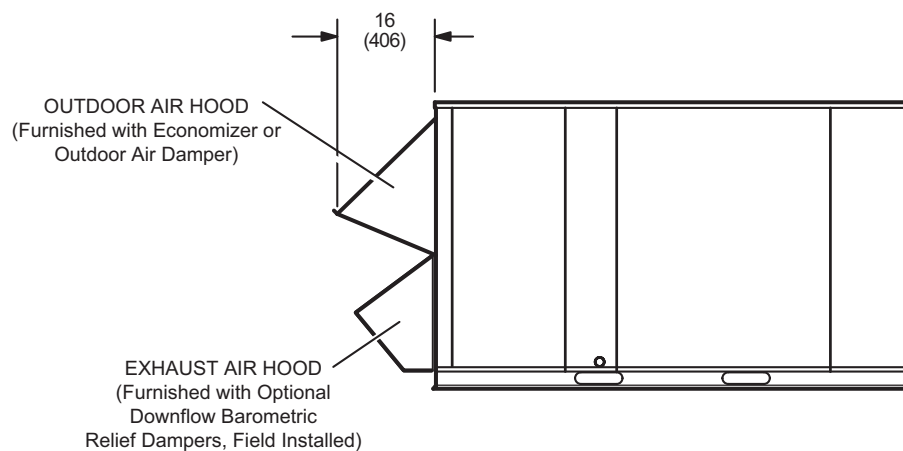
END VIEW



SIDE VIEW

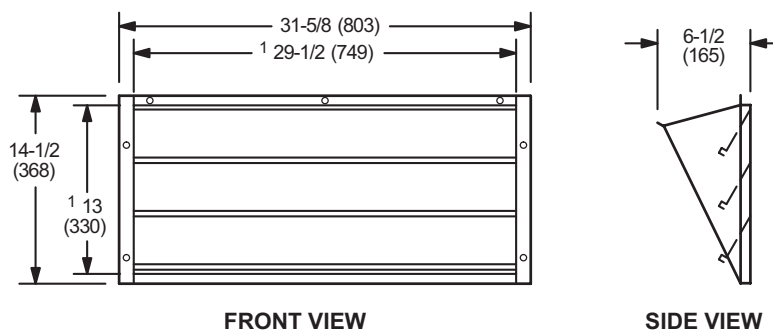
## DIMENSIONS - OPTIONAL ACCESSORIES

### OUTDOOR AIR HOOD DETAIL



### OPTIONAL HORIZONTAL BAROMETRIC RELIEF DAMPERS WITH HOOD

(Field installed in horizontal return air duct adjacent to unit)

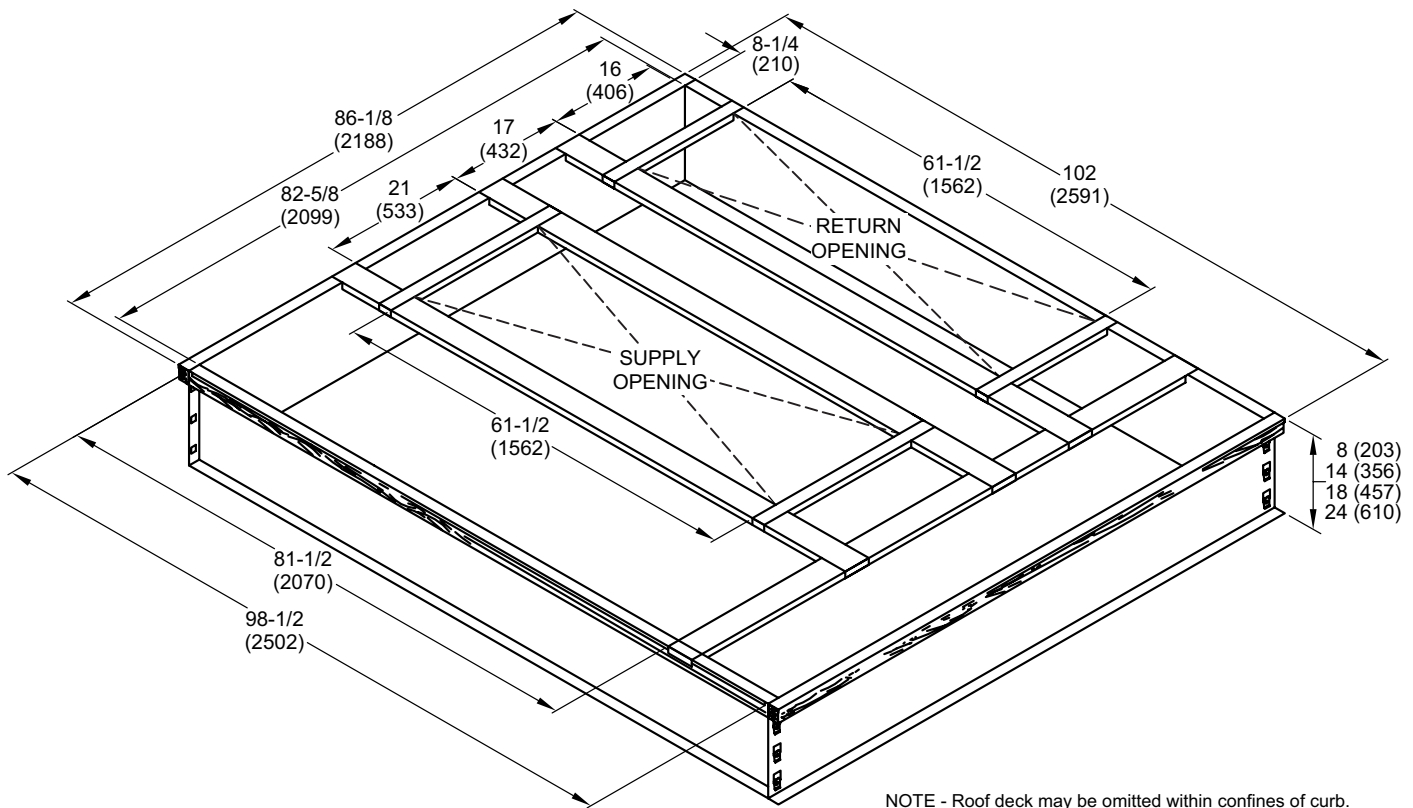


NOTE - Two furnished per order no.

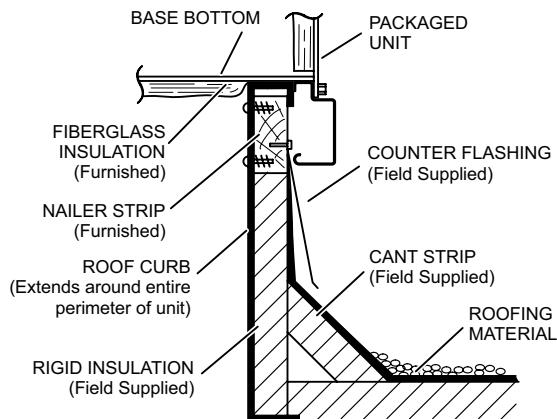
<sup>1</sup> NOTE - Opening size required in return air duct.

## DIMENSIONS - OPTIONAL ACCESSORIES

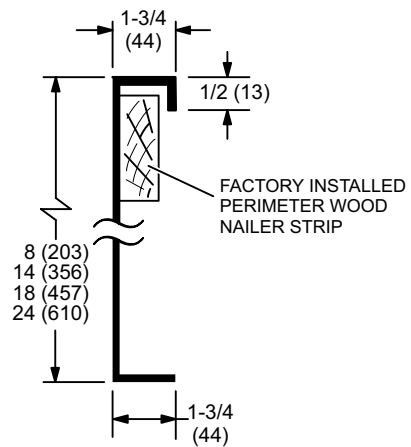
### HYBRID ROOF CURBS - DOUBLE DUCT OPENING



#### TYPICAL FLASHING DETAIL FOR ROOF CURB

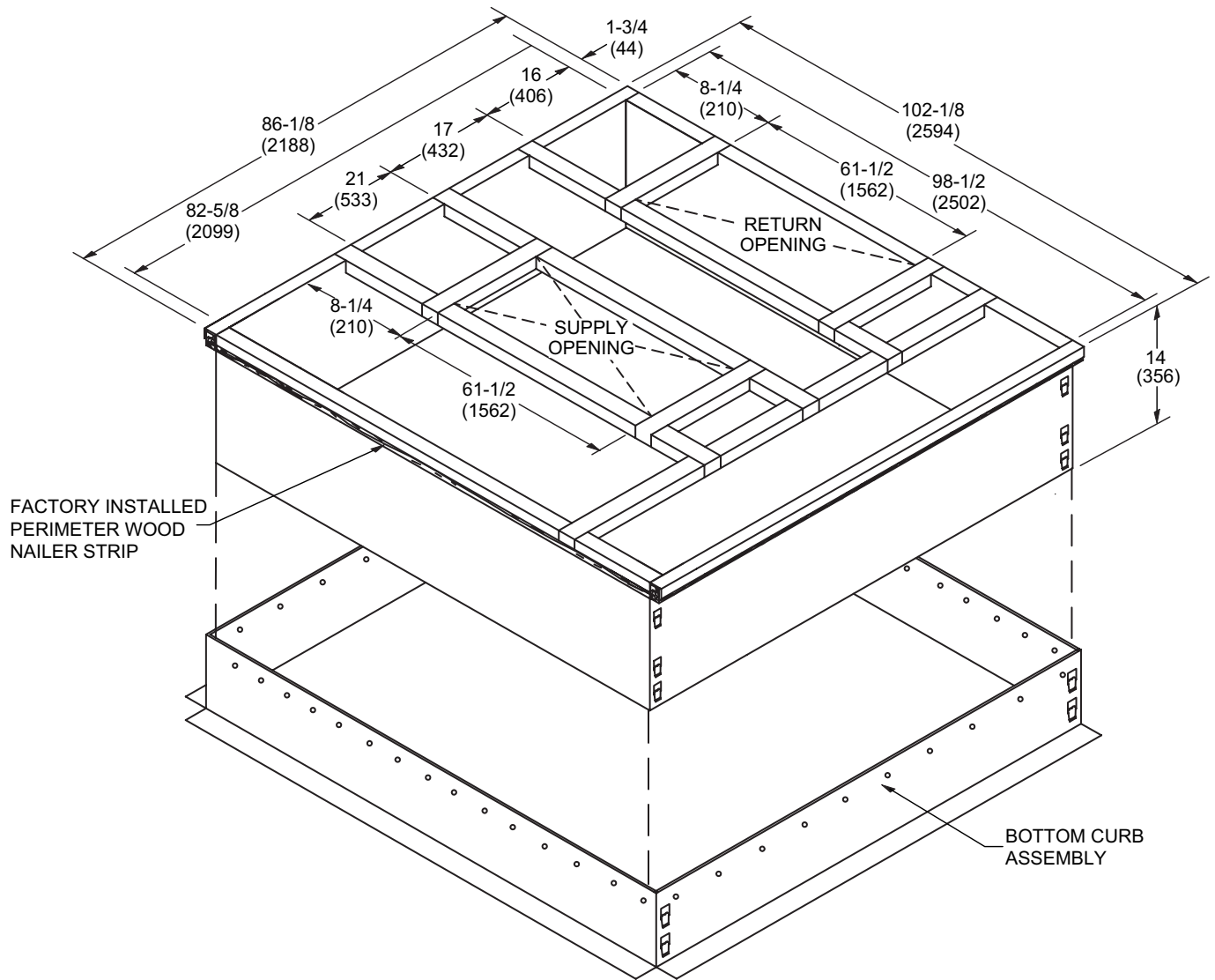


#### DETAIL ROOF CURB



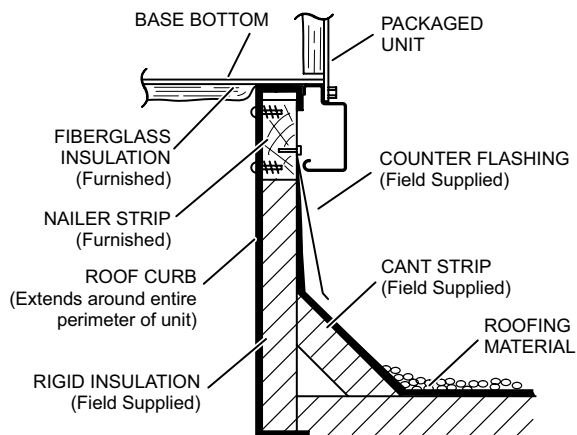
## DIMENSIONS - OPTIONAL ACCESSORIES

### ADJUSTABLE PITCH CURB - DOUBLE DUCT OPENING

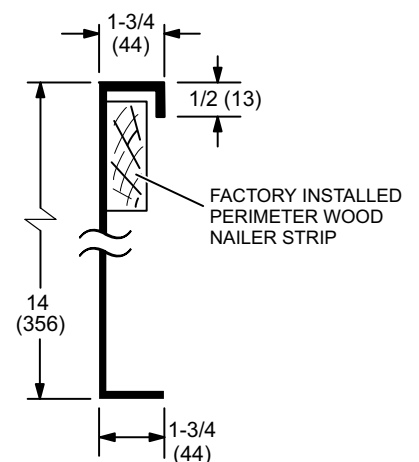


NOTE - Maximum slope pitch is 3/4 in. per 1 foot (19 mm per 305 mm) in any one direction.

#### TYPICAL FLASHING DETAIL FOR ROOF CURB

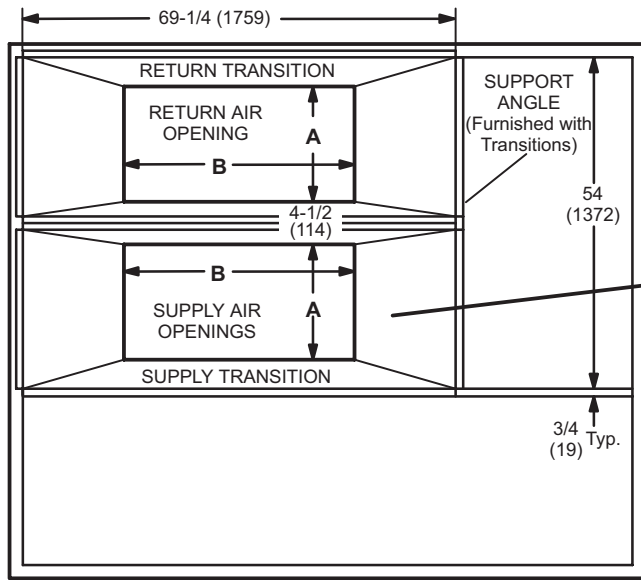


#### DETAIL ROOF CURB

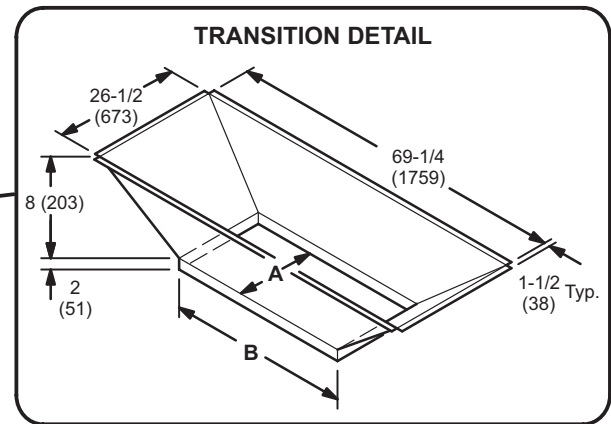


## DIMENSIONS - OPTIONAL ACCESSORIES

### ROOF CURBS WITH SUPPLY & RETURN AIR TRANSITIONS FOR CEILING DIFFUSERS



TOP VIEW

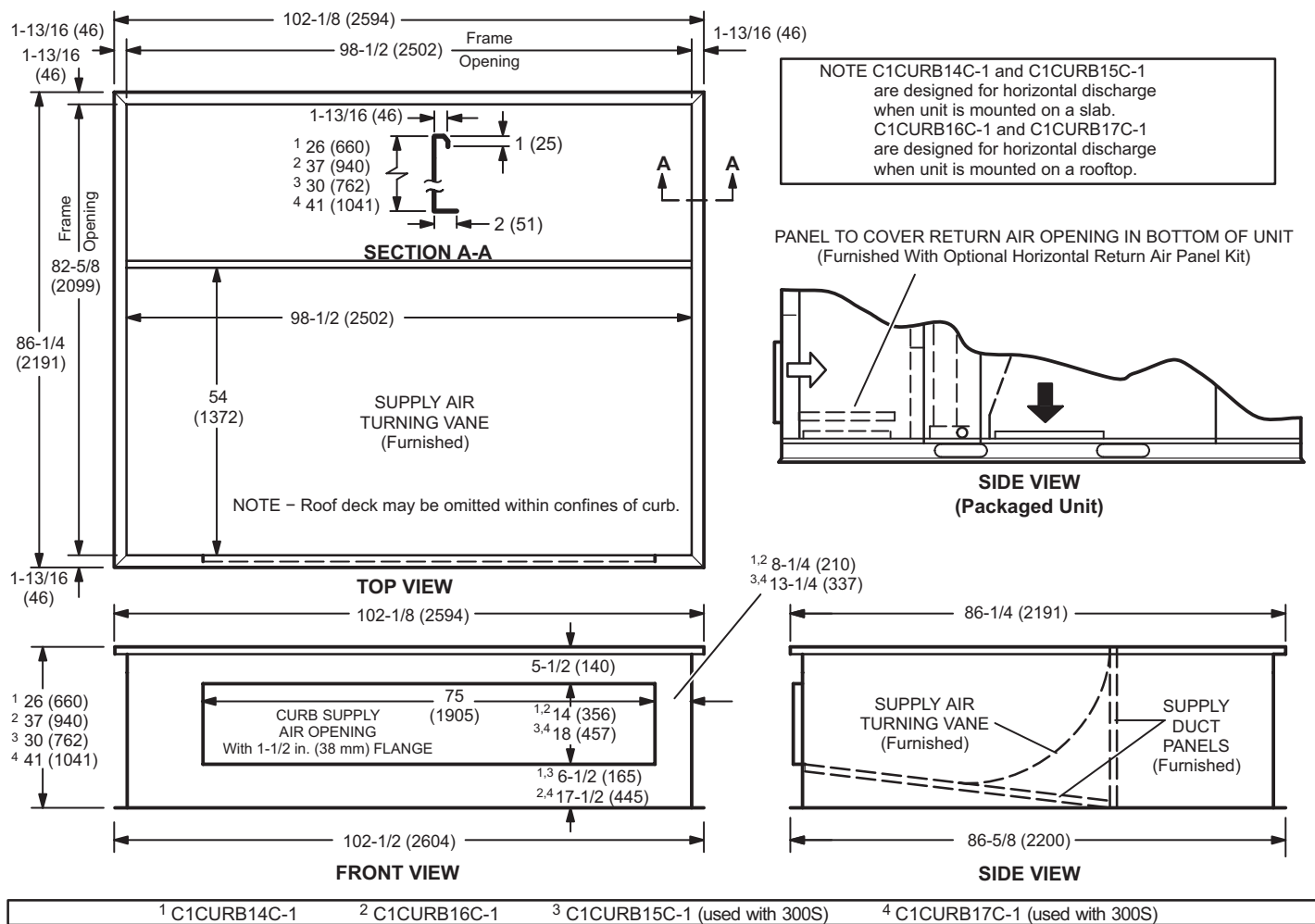


TRANSITION OPENING SIZES

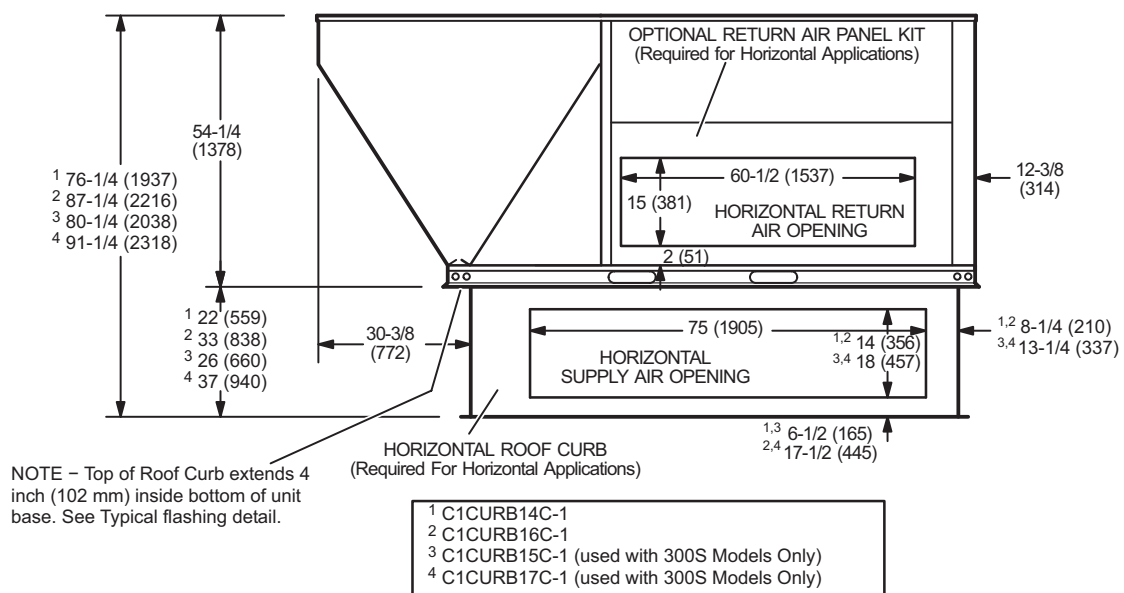
| Model Number | A    |     | B    |      |
|--------------|------|-----|------|------|
|              | inch | mm  | inch | mm   |
| C1DIFF33C-1  | 18   | 457 | 36   | 914  |
| C1DIFF34C-1  | 24   | 610 | 48   | 1219 |

## DIMENSIONS - OPTIONAL ACCESSORIES

### HORIZONTAL ROOF CURBS – Requires Optional Horizontal Return Air Panel Kit



### HORIZONTAL SUPPLY AND RETURN AIR OPENINGS WITH HORIZONTAL ROOF CURB

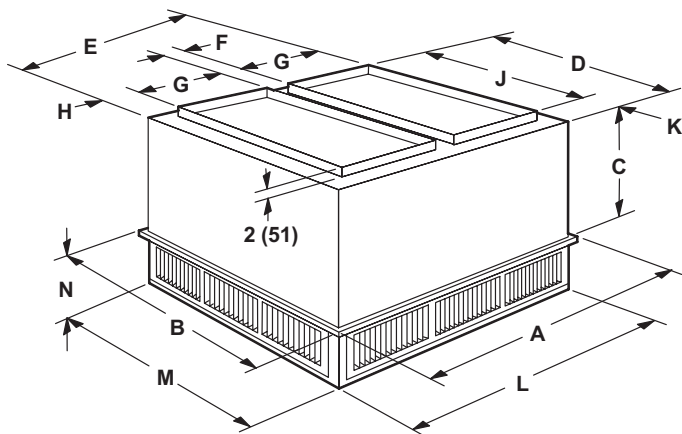




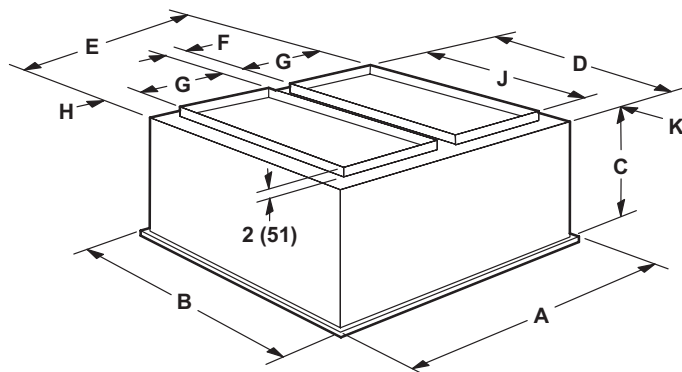
## DIMENSIONS - OPTIONAL ACCESSORIES

### COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

#### STEP-DOWN CEILING DIFFUSER



#### FLUSH CEILING DIFFUSER



| Model Number |     | RTD11-185S | RTD11-275S |
|--------------|-----|------------|------------|
| A            | in. | 47-5/8     | 59-5/8     |
|              | mm  | 1210       | 1514       |
| B            | in. | 47-5/8     | 59-5/8     |
|              | mm  | 1210       | 1514       |
| C            | in. | 24-5/8     | 30-5/8     |
|              | mm  | 625        | 778        |
| D            | in. | 45-1/2     | 57-1/2     |
|              | mm  | 1156       | 1461       |
| E            | in. | 45-1/2     | 57-1/2     |
|              | mm  | 1156       | 1461       |
| F            | in. | 4-1/2      | 4-1/2      |
|              | mm  | 114        | 114        |
| G            | in. | 18         | 24         |
|              | mm  | 457        | 610        |
| H            | in. | 2-1/2      | 2-1/2      |
|              | mm  | 64         | 64         |
| J            | in. | 36         | 48         |
|              | mm  | 914        | 1219       |
| K            | in. | 4-3/4      | 4-3/4      |
|              | mm  | 121        | 121        |
| L            | in. | 45-1/2     | 57-1/2     |
|              | mm  | 1156       | 1461       |
| M            | in. | 45-1/2     | 57-1/2     |
|              | mm  | 1156       | 1461       |
| N            | in. | 10-1/8     | 11-1/8     |
|              | mm  | 257        | 283        |
| Duct Size    | in. | 18 x 36    | 24 x 48    |
|              | mm  | 457 x 914  | 610 x 1219 |

| Model Number |     | FD11-185S | FD11-275S  |
|--------------|-----|-----------|------------|
| A            | in. | 47-5/8    | 59-5/8     |
|              | mm  | 1210      | 1514       |
| B            | in. | 47-5/8    | 59-5/8     |
|              | mm  | 1210      | 1514       |
| C            | in. | 29-1/4    | 35-1/4     |
|              | mm  | 743       | 895        |
| D            | in. | 45        | 57         |
|              | mm  | 1143      | 1148       |
| E            | in. | 45        | 57         |
|              | mm  | 1143      | 1448       |
| F            | in. | 4-1/2     | 4-1/2      |
|              | mm  | 114       | 114        |
| G            | in. | 18        | 24         |
|              | mm  | 457       | 610        |
| H            | in. | 2-1/4     | 2-1/4      |
|              | mm  | 57        | 57         |
| J            | in. | 36        | 48         |
|              | mm  | 914       | 1219       |
| K            | in. | 4-1/2     | 4-1/2      |
|              | mm  | 114       | 114        |
| Duct Size    | in. | 18 x 36   | 24 x 48    |
|              | mm  | 457 x 914 | 610 x 1219 |



## REVISIONS

| Sections       | Description of Change          |
|----------------|--------------------------------|
| Specifications | Ratings updated for LGH300S4B. |



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