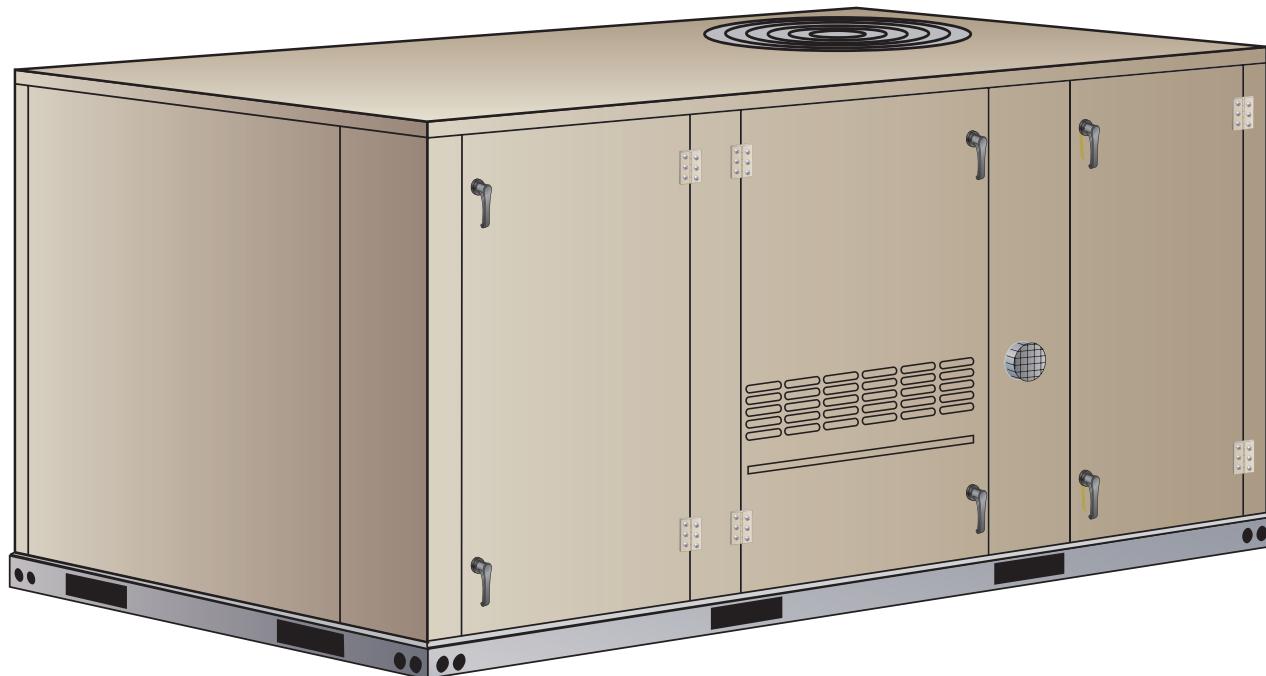




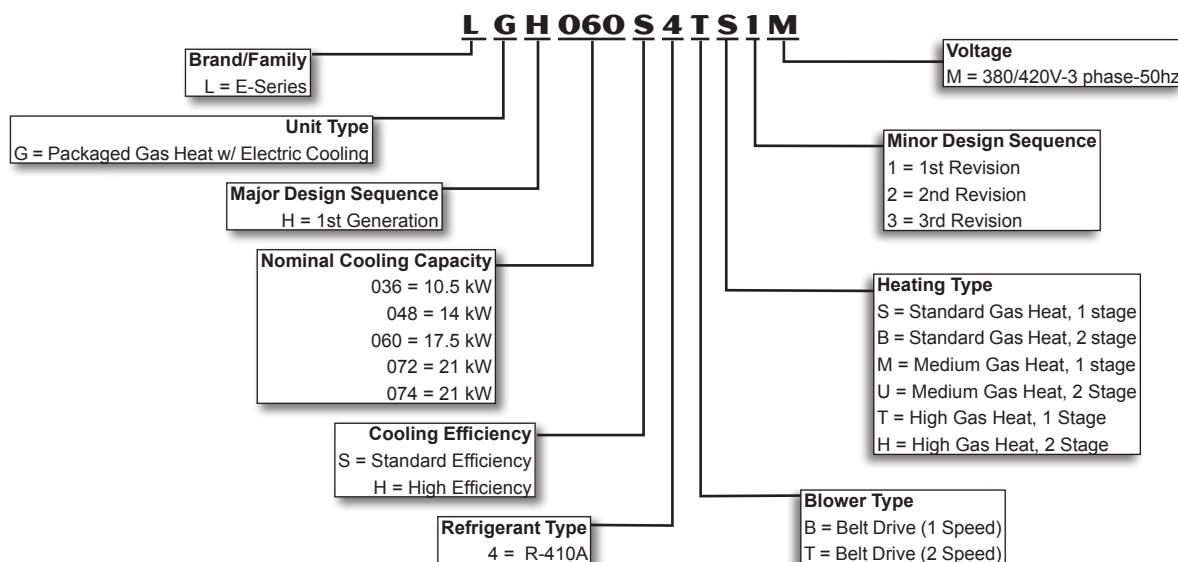
PACKAGED GAS ELECTRIC

**LGH****E-Series Rooftop Units**  
**50 Hz****PRODUCT SPECIFICATIONS**

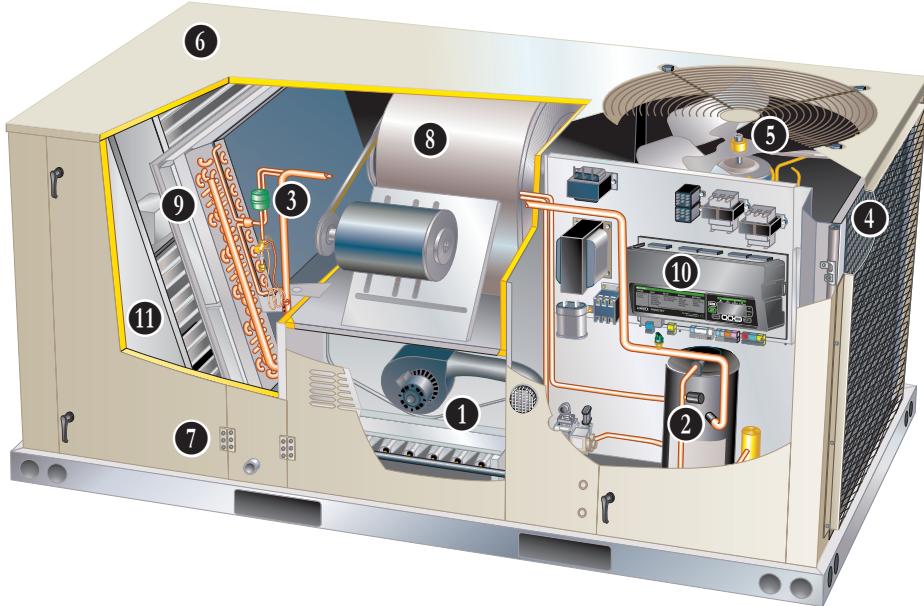
Bulletin No. LGH-036-072-50HZ (11/2019)



**10.5 to 21 kW (3 to 6 Ton)  
Net Cooling Capacity - 9.2 to 19.2 kW (32 400 to 65 500 Btuh)  
Gas Input Heat Capacity - 16.7 to 38.7 kW (57 000 to 132 000 Btuh)**

**MODEL NUMBER IDENTIFICATION**

## FEATURES AND BENEFITS



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 a Heating, Ventilation, and Air Conditioning (HVAC) product with the lowest total cost of ownership. E-Series™ rooftop units feature:

- Two-Stage Scroll Compressor** - All 10.5 to 17.5 kW (074) models feature a two-stage scroll compressor which allows E-Series™ rooftop units to deliver just the necessary amount of cooling needed to meet the space's demand. Single speed scroll compressor is furnished on 21 kW (072) models.
- Eco-Last™ Coil System** - Smaller, lighter condenser coil.
- Hinged Access Panels** - Provide quick access to components and protect panels and roof from damage during servicing.
- Isolated Compressor Compartment** - Allows performance check during normal compressor operation without disrupting airflow.
- Corrosion-Resistant Removable, Reversible Drain Pan** - Provides application flexibility, durability and improved serviceability.
- Thermostatic Expansion Valves** - Provide peak cooling performance across the entire application range.
- Dehumidification System Option** - Patented system allows for independent control of temperature and humidity, providing enhanced comfort control.
- MERV 13 (Minimum Efficiency Rating Value) Filters** - Available as factory or field option they provide an enhanced level of indoor air quality.
- Foil-Faced Insulation** - Insulation on all internal surfaces that have contact with airflow helps minimize airborne fibers and improve indoor air quality (IAQ).
- Common Components** - Many maintenance items are standard throughout the entire product line, reducing the need to carry different parts to the job or maintain in inventory.

### Intelli-Guide™ Control System

Standard on every rooftop unit, the Intelli-Guide™ unit controller is the center of the Intelli-Guide™ Control System. The intuitive user interface makes setup, troubleshooting and service easier than ever. Each unit tracks the runtime of every major component and records the date and time when service or maintenance is performed.



### WireRight™ System

The WireRight™ system simplifies field sensor or thermostat installation through advanced connectors that are keyed and color-coded to help prevent miswiring. Not only is the wire coloring scheme standardized across all models, each connection is intuitively labeled to make troubleshooting and servicing quick and easy.

## FEATURES AND BENEFITS

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### PERFORMANCE/QUALITY

Components bonded for grounding to meet safety standards for servicing required by Underwriters Laboratories (UL) and the International Electrotechnical Commission (IEC).

Cooling performance is rated at test conditions included in Air-Conditioning, Heating and Refrigeration Institute (AHRI) Standard 210/240-2008 (036 thru 060) or 340/360-2007 (072/074) while operating at rated voltage and air volumes.

International Organization for Standardization (ISO) 9001 Registered Manufacturing Quality System.

### CE MARK OPTION

The CE mark has been added to our rooftop product line as a configure to order (CTO) option. This optional construction allows units to be sold into countries requiring CE marking for rooftop products.



CE marked units meet the requirements of the Machinery Directive 2006/42/EC, Low Voltage Directive 73/23/EEC, EMC Directive 89/336/EEC, and Gas Directive 90/396/EEC. Declaration of conformity certificates will be provided for each CE marked unit on demand.

Key features of this option over and above standard product features are:

- Touch-proof electrical components meeting the requirements of EN 60529.
- Branch circuits over 0.5 kW load have overcurrent protection.
- Rotary style/finger safe disconnect switch with locking handle prevents disconnect door from being opened with the power on. Padlock can be applied to lock the disconnect switch in the OFF position.
- The factory wiring has been redesigned for separation of high and low voltage circuits.

### HEATING SYSTEM

- ① Aluminized steel inshot burners, direct spark ignition, electronic flame sensor, combustion air inducer, redundant automatic single or dual stage gas valve with manual shut-off.

#### Heat Exchanger

Tubular construction, aluminized steel, life cycle tested.

Stainless Steel Heat Exchanger is required if mixed air temperature is below 7°C.

#### Limit Controls

Factory installed, redundant limit controls with fixed temperature setting.

Heat limit controls protect heat exchanger and other components from overheating.

#### Safety Switches

Flame roll-out switch, flame sensor and combustion air inducer proving switch protect system operation.

All safety switches are monitored by the Intelli-Guide™ Unit Controller and diagnostic information is reported and recorded.

### Required Selections

#### Gas Input Choice - Order one:

- Standard Gas Heat, 1 Stage (16.7 kW)
- Standard Gas Heat, 2 Stage (16.7 kW)
- Medium Gas Heat, 1 Stage (27.8 kW)
- Medium Gas Heat, 2 Stage (20.8/27.8 kW)
- High Gas Heat, 1 Stage (38.7 kW)
- High Gas Heat, 2 Stage (29.0/38.7 kW)

## FEATURES AND BENEFITS

### HEATING SYSTEM

**(continued)**

#### Options/Accessories

##### Factory Installed

###### **Stainless Steel Heat Exchanger**

Required if mixed air temperature is below 7°C.

##### Factory or Field Installed

###### **Low Temperature Vestibule Heater**

Extends gas heat operation from -40°C (standard) down to -51°C. Electric heater automatically controls minimum temperature in gas burner compartment when temperature falls below -40°C.

##### Field Installed

###### **Combustion Air Intake Extensions**

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

###### **LPG/Propane Kits**

Conversion kit to field change over units from Natural Gas to LPG/ Propane.

###### **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. The vent kit also prevents ice formation on intake louvers.

Kit contains vent transition, drain cap and installation hardware.

*NOTE - Straight vent pipe (51 mm B-Vent), vent tee and vent cap 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 -18°C to 52°C without any additional controls.

###### **R-410A Refrigerant**

Non-chlorine based, ozone friendly, R-410A.

#### **② Copeland Scroll Ultra Tech™ Two-Stage Compressor (10.5 to 17.5 kW and 21 kW 074 Models)**

Scroll compressors on all models for high performance, reliability and quiet operation. Two-stage scroll compressors are furnished on 10.5 to 17.5 kW and 21 kW 072 models for increased part load efficiency.

Single speed scroll furnished on 21 (072) kW models.

Resiliently mounted on rubber grommets for quiet operation.

###### **Compressor Crankcase Heater**

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

###### **Thermal Expansion Valve**

Assures optimal performance throughout the application range.

Removable element head.

#### **③ Filter/Drier**

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

###### **High Pressure Switch**

Protects the compressor from overload conditions such as dirty condenser coils, blocked refrigerant flow, or loss of outdoor fan operation.

###### **Low Pressure Switch**

Protects the compressor from low pressure conditions such as low refrigerant charge, or low/no airflow.

###### **Freezestat**

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

### Eco-Last™ Coil System

Condenser coil features lightweight, all aluminum brazed fin construction.



Constructed of three components:

a flat extrusion tube, fins in-between the flat extrusion tube and 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 (reduces unit weight).
- Easy maintenance/cleaning.

Face-split design.

Mounting brackets with rubber inserts secure coil to unit providing vibration dampening and corrosion protection.

### Evaporator Coil

Copper tube construction, enhanced rippled-edge aluminum fins, flared shoulder tubing connections, silver soldered construction for improved heat transfer. Factory leak tested. Cross row circuiting with rifled tubing optimizes both sensible and latent cooling capacity.

### Condensate Drain Pan

Plastic pan with positive slope.

Side or bottom drain connections.

Reversible to allow connection at back of unit.

## FEATURES AND BENEFITS

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

#### **5 Outdoor Coil Fan Motor**

Thermal overload protected, totally enclosed, permanently lubricated sleeve (036 and 048 models) or ball bearings (060, 072 and 074 models), shaft up, wire basket mount.

#### **Outdoor Coil Fan**

Polyvinyl chloride (PVC) coated fan guard furnished.

#### **Required Selections**

##### **Cooling Capacity**

Specify nominal cooling capacity of the unit.

#### **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.

###### **Service Valves**

Fully serviceable brass valves installed in discharge & liquid lines. Not available for units equipped with Eco-Last™ coil system or dehumidification option.

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

###### **Condensate Drain Trap**

Field installed only, may be factory enclosed to ship with unit.

Available in copper or polyvinyl Chloride (PVC).

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

Monitors condensate level in drain pan, shuts down unit if drain becomes clogged.

### **CABINET**

#### **6 Construction**

Heavy-gauge steel panels and full perimeter heavy-gauge galvanized steel base rail provides structural integrity for transportation, handling, and installation.

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 provide additional protection against water entering the building.

#### **Airflow Choice**

Units are shipped in downflow (vertical) configuration, can be field converted to horizontal airflow configuration without any optional kits.

#### **Duct Flanges**

Provided for horizontal duct attachment.

#### **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 with a two-layer enamel paint finish.

#### **Insulation**

All panels adjacent to conditioned air are fully insulated with non-hygroscopic fiberglass insulation.

Unit base is fully insulated. The insulation also serves as an air seal to the roof curb, eliminating the need to add a seal during installation.

#### **7 Access Panels**

Hinged tool-less access panels are provided for the economizer/filter section, and compressor/controls section.

All hinged panels have seals and quarter-turn latching handles to provide a tight air and water seal.

**NOTE - Optional Economizers, Power Exhaust, Outdoor Air Dampers and Barometric Relief Dampers for 060/072/074 models include a filler panel for proper cabinet fit.**

#### **Required Selections**

##### **Airflow Configuration**

Specify horizontal or downflow.

#### **Options/Accessories**

##### **Factory Installed**

###### **Corrosion Protection**

A completely flexible immersed coating with an 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 Painted blower housing
- Painted base

Outdoor Corrosion Protection:

- Coated coil
- Painted base

##### **Field Installed**

###### **Combination Coil/Hail Guards**

Heavy gauge steel frame painted to match cabinet with expanded metal mesh to protect the outdoor coil from damage.

## FEATURES AND BENEFITS

### BLOWER

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

#### Blower Motor Choice

Overload protected, equipped with ball bearings.

Belt drive motors with two-speed capability (low static/high static) are available on 036, 048, 060 and 074 models in several different sizes to maximize air performance. Single-speed belt drive motor is available on 072 models.

### ⑧ Supply Air Blower

Forward curved blades, blower wheel is statically and dynamically balanced.

All belt drive motors have adjustable pulley for speed change.

#### Ordering Information

Specify motor kW and drive kit number when base unit is ordered.

### Required Selections

Order one drive kit, see Drive Kit Specifications Table.

### ELECTRICAL

#### Eco-Last™ System

Advanced wiring connectors are keyed and color-coded to 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 are used to connect common accessories or maintenance parts for easy removal or installation.

### INDOOR AIR QUALITY

#### ⑨ Air Filters

Disposable 51 mm filters furnished as standard.

### Option/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 51 mm pleated filters.

##### UVC Germicidal Lamps



Helps eliminate mold and bacterial growth on the evaporator and drain pans. Improves indoor air quality and maintains efficiency of system by reducing fouling of evaporator coil.

#### Field Installed

##### Indoor Air Quality (CO2) Sensors

Monitors CO2 levels, reports to the Intelli-Guide™ 2.0 Unit Controller which adjusts economizer dampers as needed.

## INTELLI-GUIDE™ CONTROL SYSTEM

### ⑩ INTELLI-GUIDE™ UNIT CONTROLLER



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 with buttons for menu navigation during setup and diagnostics. 4 lines x 20 character display.

**Menu LEDs** - Four LEDs (*Data, Setup, Service, Settings*) aid in menu navigation.

**Main Menu and Help Buttons** - Quick navigation to home screen and built-in help functions.

**Scroll, Value Adjustment Select and Save Buttons**

**Simplified Setup Procedure** - SETUP menu insures proper installation and setup of the rooftop unit.

**Profile Setup** - Copy key settings between units with the same configuration greatly reducing setup time.

**USB Port** - Allows a technician to download and transfer unit information to help verify service was performed.



USB drive will also allow updating software on the Intelli-Guide™ Control System to obtain enhanced functionality without the need to change components.

#### **Unit Controller Software**

**Unit Self-Test** - Unit Controller can perform a rooftop unit self-test to verify individual critical component and system performance. Included is an economizer test function that helps assure the 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 / Outdoor Air / Exhaust Options.

**Fresh Air Tempering**

**Extensive Unit Diagnostics** -

Over 100 diagnostic and status messages in English.

**Exhaust Fan Control Modes** - Fresh air damper position.

**Permanent Diagnostic Code Storage**

**Field Adjustable Control**

**Parameters** - Over 200 different control settings.

**Indoor Air Quality Input** -

Demand Control Ventilation ready

**Low Ambient Controls** - 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** - Four choices (unit off, positive pressure, negative pressure, purge).

**Staging** - Up to 2 heat/2 cool (standard Intelli-Guide™ 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** -

Simultaneous heating and cooling operation for controlling humidity for process air applications such as supermarkets.

**On Demand Dehumidification** -

Monitors and controls condenser hot gas reheat operation with option.

**Thermostat Bounce Delay**

**Warm Up Mode Delay**

**LED Indicators**

**PC Interface** - Connect to the Intelli-Guide™ unit controller from a PC with the Lennox Unit Controller Software.

**Room Sensor Operation** - Controls temperature.

### Options/Accessories

#### Factory or Field Installed

**Blower Proving Switch**

Monitors blower operation, shuts down unit if blower fails.

**Dirty Filter Switch**

Senses static pressure increase indicating dirty filter condition.

#### Controls Options

#### Factory or Field Installed

**Fresh Air Tempering**

Used in applications with high outside air requirements. The 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, the sensor ships with the unit but must be field installed.

**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.

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

NOTE - See separate Intelli-Guide™ Control System Product Specifications Bulletin for additional information.

## OPTIONS / ACCESSORIES

### Controls Options (continued)

#### 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

##### Aftermarket DDC

Novar® ETM modules and options.

##### Thermostats

Control system and thermostat options. Aftermarket unit controller options.

##### Field Installed

###### Humidity Sensor Kit

Humidity sensor required with factory installed dehumidification option or Supermarket reheat field selectable option.

###### General Purpose Control Kit

Plug-in control provides additional analog and digital inputs/outputs for field installed options.

## ⑫ ECONOMIZER

Standard and High Performance Models available.

Economizer operation is set and controlled by the Intelli-Guide™ Unit Controller.

Simple plug-in connections from economizer to unit controller for easy installation.

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

##### High Performance Economizer

Combination Outdoor Air Hood is furnished.

Factory installed Economizer can be ordered with three exhaust options:

- Barometric Relief Dampers
- Power Exhaust Fan  
*NOTE - See Power Exhaust Fan section for additional requirements.*
- No Exhaust.

Field installed Economizer includes Barometric Relief Dampers with Combination Hood.

Barometric Relief Dampers allow relief of excess air, dampers prevent blow back and outdoor air infiltration during off cycle, bird screen furnished.

*NOTE - Barometric Relief Dampers are required when Economizer is factory installed with field or factory installed Power Exhaust Fan option. See Power Exhaust Fan section and Options/Accessories table.*

Demand Control Ventilation (DCV) ready using optional CO<sub>2</sub> sensors.

Horizontal Economizer Conversion kit is available for field installation.

Horizontal Barometric Dampers are required for horizontal Economizer applications and must be ordered separately.

Gear-driven action, high torque 24-volt fully-modulating spring return damper motor, return air and outdoor air dampers, plug-in connections to unit, nylon bearings, enhanced neoprene blade edge seals and flexible stainless steel jamb seals to minimize air leakage Refer to Installation Instructions for complete setup information.

#### 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 and return air and using setpoints, enables the economizer when the outdoor air temperature is below the configured setpoint and cooler than return air.

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

*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) to determine whether outside air is suitable for free cooling on all units connected to the control system. Sensor must be field provided.

## **OPTIONS / ACCESSORIES**

### **ECONOMIZER (continued)**

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

#### **Single Enthalpy Temperature Control**

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

#### **Differential Enthalpy Control**

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

#### **Field Installed**

#### **Building Pressure Control**

Maintains constant building pressure level.

Using information from a differential pressure between the outdoor air and the building air, the 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).*

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

For use when unit is configured for horizontal applications with an economizer.

Allows relief of excess air.

Blade type dampers prevent blow back and outdoor air infiltration during off cycle.

Field installed in return air duct.

Exhaust hood with bird screen furnished.

Requires Horizontal Economizer Conversion Kit.

#### **Horizontal Economizer Conversion Kit**

Insulated panel covers the bottom return air opening on the unit base to convert downflow economizer to horizontal air flow.

### **EXHAUST**

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

#### **Power Exhaust Fan**

Installs internal to unit for downflow applications with economizer option. Provides exhaust air pressure relief. Interlocked to run when supply air blower is operating, fan runs when outdoor air dampers are 50% open (adjustable), motor is overload protected.

Fan is 406 mm diameter with 4 fan blades and a 0.25 kW motor.

*NOTE - If Power Exhaust is field installed with a factory installed Economizer, the Economizer must be ordered with No Exhaust option. Barometric Relief Dampers must also be ordered separately for field installation.*

*NOTE - If Power Exhaust is factory installed with a factory installed Economizer, Barometric Relief Dampers must also be ordered separately for field installation.*

### **OUTDOOR AIR**

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

#### **Outdoor Air Dampers - Downflow or Horizontal**

Single blade damper, 0 to 25% (fixed) outdoor air adjustable, installs in unit.

Automatic model features fully modulating spring return damper motor with plug-in connection. Manual model features a slide damper. Maximum mixed air temperature in cooling mode: 38°C.

Outdoor Air Hood is furnished.

### **ROOF CURBS**

Nailer strip furnished, mates to unit, US National Roofing Contractors Approved, shipped knocked down.

#### **Hybrid Roof Curbs, Downflow**

Roof curb can be assembled using interlocking tabs to fasten corners together. No tools required.

Curb can also be fastened together with furnished hardware.

Available in 203, 356, 457, and 610 mm heights.

See Options/Accessories table.

### **Adjustable Pitch Curb**

Fully adjustable pitch curb provides a level platform for rooftop units allowing flexible installations on roofs with uneven or sloped angles.

Maximum slope is 19 mm per 300 mm in any direction.

Uses interlocking tabs to fasten corners together. No tools required.

Hardware is furnished to connect upper curb with lower curb.

Available in 356 mm height.

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

Curbs are regionally sourced. Dimensions will vary based upon the source. Contact your local sales representative for a detailed cut sheet with applicable dimensions.

### **CEILING DIFFUSERS**

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

Diffuser face and grilles with white powder coat finish, insulated (UL listed duct liner), diffuser box with collars for duct connection, fixed blades (flush diffusers) and double deflection blades (step-down diffusers), provisions for suspending, internally sealed (prevents 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.

## OPTIONS / ACCESSORIES

### DEHUMIDIFICATION® SYSTEM

Factory installed option designed to control humidity.

Provides dehumidification on demand using American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) 90.1 recommended method for comfort conditioning humidity control.

Unit comes equipped with one row reheat coil, solenoid valve and humidity controller.

In addition to a thermostat or room sensor used for conventional operation, a humidity sensor is required and must be located in the occupied space. 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.

Reheat controls are located in the compressor control section of the unit for easy access.

#### 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.

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 20°C to 24°C 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. The unit will continue to operate in this mode until the dehumidification demand is satisfied.

See Sequence of Operation for additional information.

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

##### Two-stage compressor models (036, 048, 060, 074)

If both a dehumidification and a Y1 cooling demand occur, the system will operate in the full cooling mode at first stage indoor air flow. If a Y2 cooling demand occurs along with a dehumidification demand, the system operates in full cooling mode at full cooling airflow until the Y2 cooling demand is satisfied. Then the system will revert to the dehumidification mode if a dehumidification mode demand is present.

##### Single speed compressor model (072H)

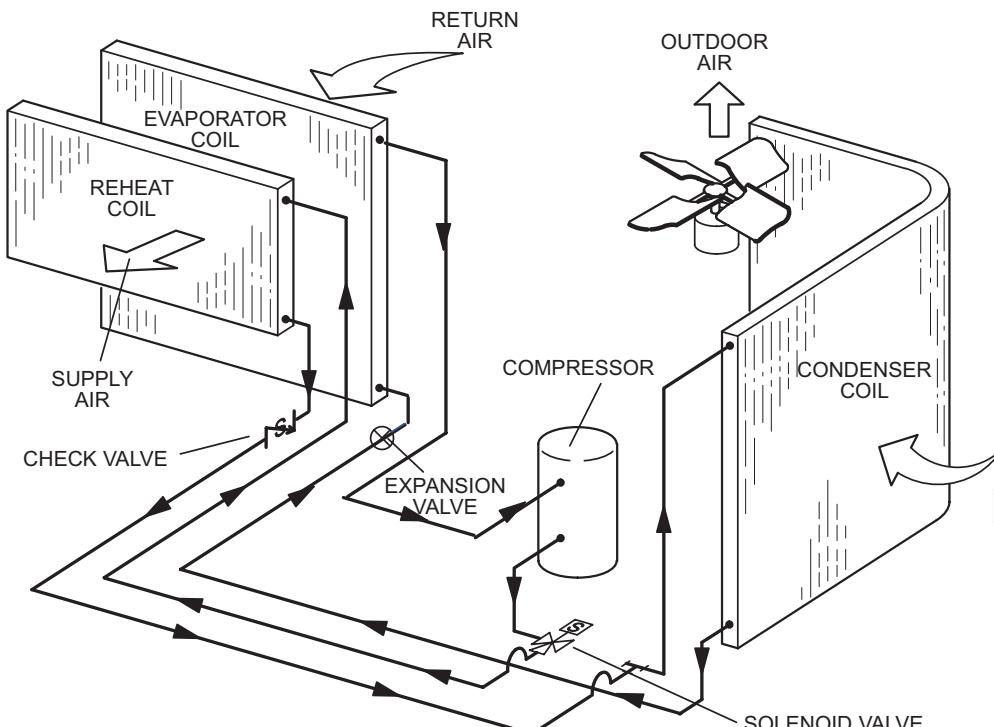
If both a dehumidification and a cooling demand occur, the system will operate in cooling until the cooling demand is satisfied. Then the system will energize the dehumidification mode.

#### Options/Accessories

##### Humidity Sensor Kit

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

TYPICAL DEHUMIDIFICATION SCHEMATIC



## SEQUENCE OF OPERATION

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

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

### **BELT DRIVE SYSTEM OPERATION (036 THROUGH 060 AND 074 MODELS):**

#### **Modulating Outdoor Air Damper:**

*Damper minimum positions #1 and 2 are adjusted during unit setup to provide minimum fresh air requirements at the indicated supply fan speeds per American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) 62.1.*

- Supply fan is off and the outdoor air damper is closed
- Supply fan is on low speed and the outdoor air damper is at minimum position 1
- Supply fan is on high speed and the outdoor air damper is at minimum position 2

#### **<sup>1</sup>Unit Features an Economizer and Outdoor Air is Suitable**

Cooling - Thermostat or Zone Sensor Mode (Up to 3 stages Y1, Y2, Y3)

Y1 demand:

1<sup>st</sup>: Compressor is off, supply fan is on low speed, economizer modulates (minimum to maximum open position) to maintain 13°C supply air temperature (default unit controller setting)

2<sup>nd</sup>: After 5 minutes (default unit controller setting), supply fan switches to high speed. Economizer continues modulating with supply fan on high speed to maintain 13°C supply air temperature

Y2 demand:

1<sup>st</sup>: Compressor is off, supply fan is on high speed, and economizer modulates to maintain 13°C supply air temperature

2<sup>nd</sup>: Economizer opens to maximum. If economizer stays at maximum open for 3 minutes (default unit controller setting) compressor is energized and operates at first stage while supply fan stays on high 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 rooftop unit (RTU) via a network connection.*

Y3 demand:

1<sup>st</sup>: Economizer is at maximum open and compressor operates at first stage. If economizer stays at maximum open for 3 minutes (default unit controller setting) compressor switches to second stage operation while supply fan stays on high speed

#### **Unit Does not Feature an Economizer (or Outdoor Air Is Not Suitable)**

Cooling - Thermostat or Zone Sensor (Up to 2 stages Y1, Y2)

Y1 demand:

1<sup>st</sup>: Compressor operates at first stage and supply fan operates at low speed

Y2 demand:

1<sup>st</sup>: Compressor operates at second stage and supply fan operates at high speed

**(Continued on Next Page)**

## **SEQUENCE OF OPERATION**

### **BELT DRIVE SYSTEM OPERATION (036 THROUGH 060 AND 074 MODELS) (Continued):**

#### **Dehumidification Mode (economizer free cooling is locked out):**

Unit features the dehumidification system

No Y1, Y2 demand but a call for dehumidification:

1<sup>st</sup>: Compressor operates at second stage, supply fan operates at low speed, and the reheat valve is energized

Y1 demand:

1<sup>st</sup>: Compressor operates at second stage, outdoor fan operates at high speed, supply fan operates at low speed and the reheat valve is de-energized

Y2 demand:

1<sup>st</sup>: Compressor operates at second stage, supply fan operates at high speed, and the reheat valve is de-energized

#### **Heating mode: Thermostat or Zone Sensor (Up to 2 stages W1, W2)**

W1 demand:

1<sup>st</sup>: Gas valve is open (stage 1 on units with 2 stage gas valve) and the supply fan operates at high speed

W2 demand:

1<sup>st</sup>: Gas valve is open (stage 2 on units with 2 stage gas valve) and the supply fan operates at high speed

## **SEQUENCE OF OPERATION**

### **SINGLE STAGE UNIT OPERATION (072)**

#### **Modulating Outdoor Air Damper:**

*Damper minimum positions are adjusted during unit setup to provide minimum fresh air requirements at the indicated supply fan speeds per American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) 62.1.*

- 1) Supply fan is off and the outdoor air damper is closed
- 2) Supply fan is on and the outdoor air damper is at minimum position

#### **<sup>1</sup> Unit Features an Economizer and Outdoor Air is Suitable**

Cooling - Thermostat or Zone Sensor (Up to 2 stages Y1, Y2).

Y1 demand:

1<sup>st</sup>: Compressor is off, supply fan is on, economizer modulates (minimum to maximum open position) to maintain 13°C supply air temperature (default unit controller setting)

Y2 demand:

1<sup>st</sup>: Economizer goes to maximum open position and if the damper stays open for three minutes (default unit controller setting) the compressor is energized.

#### **Unit Does Not Feature an Economizer (or outdoor air is not suitable)**

Cooling - Thermostat or Zone Sensor (Up to 1 stage Y1).

Y1 demand:

1<sup>st</sup>: Compressor is operating and supply fan is on.

#### **Dehumidification Mode (economizer free cooling is locked out):**

Unit features the dehumidification system

No Y1 demand but a call for dehumidification:

1<sup>st</sup>: Compressor is operating, supply fan is on, and the reheat valve is energized.

Y1 demand:

1<sup>st</sup>: Compressor is operating, supply fan is on, and the reheat valve is de-energized.

Y2 demand:

1<sup>st</sup>: Compressor is operating, supply fan is on, and the reheat valve is de-energized.

#### **Heating Mode Thermostat or Zone Sensor (Up to 2 stages W1, W2)**

W1 demand:

1<sup>st</sup>: Gas valve is open (stage 1 on units with 2 stage gas valve), supply fan is on.

W2 demand:

1<sup>st</sup>: Gas valve is open (stage 2 on units with 2 stage gas valve), supply fan is on.

## OPTIONS / ACCESSORIES

Item	Model Number	Catalog Number	Unit				
			036	048	060	072	074
<b>CE MARK</b>							
CE Marked Unit		Factory	O	O	O	O	O
<b>COOLING SYSTEM</b>							
Condensate Drain Trap	Polyvinyl Chloride (PVC) - C1TRAP20AD2	76W26	OX	OX	OX	OX	OX
	Copper - C1TRAP10AD2	76W27	OX	OX	OX	OX	OX
Drain Pan Overflow Switch	E1SNSR71AD1	68W88	OX	OX	OX	OX	OX
Efficiency	Standard	Factory	O	O	O		
	High	Factory				O	O
Service valves (not for Eco-Last™ Coil System or dehumidification equipped units)	Factory	O	O	O	O	O	O
<b>HEATING SYSTEM</b>							
Bottom Gas Piping Kit	T1GPKT01AN1	19W50	OX	OX	OX	OX	OX
Combustion Air Intake Extensions	T1EXTN10AN1	19W51	X	X	X	X	X
Gas Heat Input	Standard One-Stage - 16.7 kW input	Factory	O	O	O	O	O
	Standard Two-Stage - 12.6/16.7 input	Factory	O	O	O	O	O
	Medium One-Stage - 27.8 kW input	Factory	O	O	O	O	O
	Medium Two-Stage - 20.8/27.8 kW input	Factory	O	O	O	O	O
	High One-Stage - 38.7 kW input	Factory		O	O	O	O
	High Two-Stage - 29.0/38.7 kW input	Factory		O	O	O	O
LPG/Propane Conversion Kits	For one-stage models - C1PROP10AP2	14N20	X	X	X	X	X
	For two-stage models - C1PROP20AP2	14N21	X	X	X	X	X
Stainless Steel Heat Exchanger	Factory	O	O	O	O	O	O
Vertical Vent Extension	C1EXTN20FF1	31W62	X	X	X	X	X
<b>BLOWER - SUPPLY AIR</b>							
	Belt Drive - 0.47 kW (2 Speed)	Factory	O	O			
	Belt Drive - 0.62 kW (2 Speed)	Factory	O		O		O
	Belt Drive - 1.24 kW (2 Speed)	Factory		O	O		O
	Belt Drive - 0.75 kW (2 Speed)	Factory					O
	Belt Drive - 1.5 kW (2 Speed)	Factory					O
	Belt Drive - 1.5 kW Standard Efficiency	Factory					O
Drive Kits See Blower Data Tables for selection	Kit A01 - T1DRKT001-1 - 374-842 rev/min	Factory	O				
	Kit A02 - T1DRKT002-1 - 414-931 rev/min	Factory		O			
	Kit A03 - T1DRKT003-1 - 463-1042 rev/min	Factory			O		
	Kit A05 - T1DRKT005-1 - 498-1122 rev/min	Factory	O				
	Kit A06 - T1DRKT006-1 - 595-1191 rev/min	Factory		O			
	Kit A07 - T1DRKT007-1 - 673-1290 rev/min	Factory			O		
	Kit AA02 - T1DRKT002AP1 - 527-729 rev/min	Factory				O	
	Kit AA03 - T1DRKT003AP1 - 665-921 rev/min	Factory				O	O
	Kit AA04 - T1DRKT004AP1 - 768-1023 rev/min	Factory				O	O
<b>CABINET</b>							
Combination Coil/Hail Guards	C1GARD51A-1	13R98	X	X			
	C1GARD51AT1	13T03			X	X	X
Corrosion Protection (indoor coil / outdoor coil)	Factory	O	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	Model Number	Catalog Number	Unit				
			036	048	060	072	074
<b>CONTROLS</b>							
Blower Proving Switch	C1SNSR35FF1	<b>53W65</b>	OX	OX	OX	OX	OX
Commercial Controls	Novar® LSE	Factory	O	O	O	O	O
	Novar 2051 - E0CTRL30A1	<b>64W72</b>	OX	OX	OX	OX	OX
Intelli-Guide™ Control System - BACnet® Module - C0CTRL60AE1L	<b>59W51</b>	OX	OX	OX	OX	OX	
Intelli-Guide™ Control System - LonTalk® Module - C0CTRL65FF1	<b>54W27</b>	OX	OX	OX	OX	OX	
Dirty Filter Switch	E1SNSR55AP1	<b>53W66</b>	OX	OX	OX	OX	OX
General Purpose Control Kit	E1GPBK30C1	<b>13J78</b>	X	X	X	X	X
Fresh Air Tempering	C1SNSR75AD1	<b>58W63</b>	OX	OX	OX	OX	OX
Smoke Detector - Supply or Return (Power board and one sensor)	C1SNSR44AP1	<b>53W78</b>	OX	OX	OX	OX	OX
Smoke Detector - Supply and Return (Power board and two sensors)	C1SNSR43AP1	<b>53W79</b>	OX	OX	OX	OX	OX
<b>ELECTRICAL</b>							
Voltage 50 hz with neutral	380/420V - 3 phase	Factory	O	O	O	O	O
<b>ECONOMIZER</b>							
<b>High Performance Economizer With Outdoor Air Hood (Sensible Control)</b>							
High Performance Economizer - Includes Barometric Relief Dampers with Exhaust Hood	E1ECON17A-1	<b>10U54</b>	OX	OX	OX	OX	OX
High Performance Economizer - No Exhaust Option		Factory	O	O	O	O	O
<b>Economizer Accessories</b>							
Horizontal Economizer Conversion Kit	T1HECK00AN1	<b>17W45</b>	X	X	X	X	X
<b>Economizer Controls</b>							
Differential Enthalpy	Order 2 - C1SNSR64FF1	<b>53W64</b>	OX	OX	OX	OX	OX
Sensible Control	Sensor is Furnished	Factory	O	O	O	O	O
Single Enthalpy	C1SNSR64FF1	<b>53W64</b>	OX	OX	OX	OX	OX
Global Control	Sensor Field Provided	Factory	O	O	O	O	O
Building Pressure Control	E1GPBK20C1	<b>13J77</b>	X	X	X	X	X
<b>POWER EXHAUST FAN (DOWNFLOW ONLY)</b>							
Standard Static	380/420V-3ph - C1PWRE10A-1M	<b>79W93</b>	OX	OX	OX	OX	OX
<i>NOTE - Factory or Field installed Power Exhaust Fan requires "Barometric Relief Dampers for Power Exhaust Kit" for field installation. See below.</i>							
<b>BAROMETRIC RELIEF</b>							
<sup>1</sup> Barometric Relief Dampers for Power Exhaust Kit	C1DAMP50A-3-	<b>19D42</b>	X	X	X	X	X
<sup>2</sup> Horizontal Barometric Relief Dampers With Exhaust Hood	LAGEDH03/15-2	<b>19F01</b>	X	X	X	X	X
<b>OUTDOOR AIR</b>							
<b>Outdoor Air Dampers With Outdoor Air Hood</b>							
Motorized	C1DAMP21A-1	<b>15D17</b>	OX	OX	OX	OX	OX
Manual	C1DAMP11A-2	<b>15D18</b>	OX	OX	OX	OX	OX
<b>CONDENSER REHEAT OPTION</b>							
Dehumidification Option		Factory	O	O	O	O	O
Humidity Sensor Kit, Remote mounted (required)	COSNSR31AE-1	<b>17M50</b>	X	X	X	X	X

<sup>1</sup> Required when Economizer is factory installed with factory or field installed Power Exhaust Fan option.

<sup>2</sup> Required when Economizer is configured for horizontal airflow.

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

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

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X = Field Installed

## OPTIONS / ACCESSORIES

Item	Model Number	Catalog Number	Unit						
			036	048	060	072	074		
<b>INDOOR AIR QUALITY</b>									
<b>Air Filters</b>									
High Efficiency Air Filters	MERV 8 (406 x 508 x 51 mm) - C1FLTR15A-1-	<b>54W20</b>	OX	OX					
Order 4 per unit	MERV 13 (406 x 508 x 51 mm) - T1FLTR40A-1-	<b>52W37</b>	OX	OX					
	MERV 8 (508 x 508 x 51 mm) - C1FLTR15D-1-	<b>54W21</b>		OX	OX	OX			
	MERV 13 (508 x 508 x 51 mm) - C1FLTR40D-1-	<b>52W39</b>		OX	OX	OX			
Replaceable Media Filter With Metal Mesh Frame (includes non-pleated filter media)	406 x 508 x 51 mm (Order 4) - K1FLTR30A-1	<b>39W09</b>	X	X					
	508 x 508 x 51 mm (Order 4) - K1FLTR30A-2	<b>44N60</b>			X	X	X		
<b>Indoor Air Quality (CO2) Sensors</b>									
Sensor - Wall-mount, off-white plastic cover with LCD display	C0SNSR50AE1L	<b>77N39</b>	X	X	X	X	X		
Sensor - Wall-mount, off-white plastic cover, no display	C0SNSR52AE1L	<b>87N53</b>	X	X	X	X	X		
Sensor - Black plastic case with LCD display, rated for plenum mounting	C0SNSR51AE1L	<b>87N52</b>	X	X	X	X	X		
Sensor - Wall-mount, black plastic case, no display, rated for plenum mounting	C0SNSR53AE1L	<b>87N54</b>	X	X	X	X	X		
CO2 Sensor Duct Mounting Kit - for downflow applications	C0MISC19AE1-	<b>85L43</b>	X	X	X	X	X		
Aspiration Box - for duct mounting non-plenum rated CO2 sensors ( <b>87N53</b> or <b>77N39</b> )	C0MISC16AE1-	<b>90N43</b>	X	X	X	X	X		
<b>UVC Germicidal Lamps</b>									
<sup>3</sup> UVC Light Kit (220V-1ph)	C1UVCL10AN1-	<b>50W90</b>	OX	OX	OX	OX	OX		
<b>ROOF CURBS</b>									
<b>Hybrid Roof Curbs, Downflow</b>									
203 mm height	C1CURB70A-1	<b>11F50</b>	X	X	X	X	X		
356 mm height	C1CURB71A-1	<b>11F51</b>	X	X	X	X	X		
457 mm height	C1CURB72A-1	<b>11F52</b>	X	X	X	X	X		
610 mm height	C1CURB73A-1	<b>11F53</b>	X	X	X	X	X		
<b>Adjustable Pitch Curb</b>									
356 mm height	C1CURB55AT1	<b>43W27</b>	X	X	X	X	X		
<b>Transition Curb</b>									
							X		
<b>CEILING DIFFUSERS</b>									
Step-Down - Order one	RTD9-65S	<b>13K60</b>	X	X	X				
	RTD11-95S	<b>13K61</b>				X	X		
Flush - Order one	FD9-65S	<b>13K55</b>	X	X	X				
	FD11-95S	<b>13K56</b>				X	X		
Transitions (Supply and Return) - Order one	T1TRAN10AN1	<b>17W53</b>	X	X	X				
	T1TRAN20N-1	<b>17W54</b>				X	X		

<sup>1</sup> Required when Economizer is factory installed (no exhaust option) with field installed Power Exhaust Fan option.

<sup>2</sup> Required when Economizer is factory installed with factory installed Power Exhaust Fan option.

<sup>3</sup> Lamps operate on 220V single-phase power supply. Step-down transformer may be ordered separately for 380/420V primary to 220V secondary units. Alternately, 220V 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

## SPECIFICATIONS

General Data		Nominal kW (Tons)	10.6 kW (3 Ton)	14 kW (4 Ton)	17.6 kW (5 Ton)	21 kW (6 Ton)	21 kW (6 Ton)
		Model Number	LGH036S4T	LGH048S4T	LGH060S4T	LGH072H4B	LGH074H4T
		Efficiency Type	Standard	Standard	Standard	High	High
		Blower Type	Two Speed Belt Drive	Two Speed Belt Drive	Two Speed Belt Drive	Single Speed Belt Drive	Two Speed Belt Drive
Cooling Performance	Gross Cooling Capacity - kW (Btu/h)	9.5 (32 400)	12.6 (43 000)	16.4 (56 000)	19.6 (67 000)	18.3 (62 300)	
	Net Cooling Capacity - kW (Btu/h)	<sup>1</sup> 9.2 (31 400)	<sup>1</sup> 12.2 (41 500)	<sup>1</sup> 15.9 (54 500)	<sup>2</sup> 19.2 (65 500)	17.5 (59 700)	
	AHRI Rated Air Flow - L/s (cfm)	565 (1200)	755 (1600)	825 (1750)	905 (1920)	991 (2100)	
	Total Unit Power - kW	2.7	3.7	4.5	5.2	4.9	
	SEER (Btuh/Watt)	<sup>1</sup> 15.0	<sup>1</sup> 15.0	<sup>1</sup> 15.5	---	---	
	IEER (Btuh/Watt)	---	---	---	<sup>2</sup> 13.5	<sup>2</sup> 16.2	
	<sup>1</sup> EER (Btuh/Watt) at 35°C (95°F)	<sup>1</sup> 11.5	<sup>1</sup> 11.8	<sup>1</sup> 12.0	<sup>2</sup> 12.0	<sup>2</sup> 12.2	
	<sup>3</sup> EER (Btuh/Watt) at 46°C (115°F)	8.1	8.2	8.3	8.5	8.5	
Refrigerant Charge	Refrigerant Type	R-410A	R-410A	R-410A	R-410A	R-410A	
	Eco-Last™ Coil System	1.95 kg (4 lbs. 5 oz.)	2.83 kg (6 lbs. 4 oz.)	3.63 kg (8 lbs. 0 oz.)	3.40 kg (7 lbs. 8 oz.)	3.23 kg (7 lbs. 2 oz.)	
	Conventional Fin/Tube Coil	3.86 kg (8 lbs. 8 oz.)	5.05 kg (11 lbs. 2 oz.)	6.35 kg (14 lbs. 0 oz.)	6.24 kg (13 lbs. 12 oz.)	6.21 kg (13 lbs. 11 oz.)	
	Eco-Last™ Coil System With Dehumidification	2.32 kg (5 lbs. 2 oz.)	2.95 kg (6 lbs. 8 oz.)	3.63 kg (8 lbs. 0 oz.)	4.08 kg (9 lbs. 0 oz.)	4.05 kg (8 lbs. 15 oz.)	
	Conventional Fin/Tube With Dehumidification Option	4.17 kg (9 lbs. 3 oz.)	5.56 kg (12 lbs. 4 oz.)	7.26 kg (16 lbs. 0 oz.)	6.89 kg (15 lbs. 3 oz.)	7.12 kg (15 lbs. 11 oz.)	
<b>Gas Heating Options Available - See page 15</b>		Standard (1 stage) or Medium (1 or 2 stage)	Standard (1 stage), Medium (1 or 2 Stage) or High (1 or 2 Stage)	Standard (1 stage), Medium (1 or 2 Stage) or High (1 or 2 Stage)	Standard (1 stage), Medium (1 or 2 Stage) or High (1 or 2 Stage)	Standard (1 stage), Medium (1 or 2 stage) or High (1 or 2 stage)	
<b>Compressor Type (number)</b>		Scroll (1)	Scroll (1)	Scroll (1)	Scroll (1)	Scroll (1)	
Outdoor Coil Eco-Last™	Net face area (total) - m <sup>2</sup> (sq. ft.)	1.09 (11.70)/ 1.45 (15.60)	1.09 (11.70)/ 1.45 (15.60)	1.65 (17.80)/ 1.79 (19.30)	1.65 (17.80)/ 1.79 (19.30)	1.65 (17.80)/ 1.79 (19.30)	
(Fin/Tube)	Tube diameter - mm (in.)	18 (0.71)/ 9.5 (3/8)	18 (0.71)/ 9.5 (3/8)	18 (0.71)/ 9.5 (3/8)	18 (0.71)/ 9.5 (3/8)	18 (0.71)/ 9.5 (3/8)	
	Number of rows	1 (1.5)	1 (2)	1 (2)	1 (2)	1 (2)	
	Fins per m (Fins per inch)	788 (20)	788 (20)	788 (20)	788 (20)	788 (20)	
Outdoor Coil Fans	Motor - (No.) W (horsepower)	(1) 124 (1/6)	(1) 185 (1/4)	(1) 250 1/3	(1) 250 (1/3)	(1) 249 (1/3)	
	Motor rev/min	688	688	896	896	900	
	Total Motor Input - watts	128	176	313	313	284	
	Diameter - (No.) mm (in.)	(1) 610 (24)	(1) 610 (24)	(1) 610 (24)	(1) 610 (24)	(1) 610 (24)	
	Number of blades	3	3	3	3	3	
	Total air volume - L/s (cfm)	1180 (2500)	1295 (2750)	1885 (4000)	1885 (4000)	1848 (3900)	
Indoor Coils	Net face area (total) - m <sup>2</sup> (sq. ft.)	0.72 (7.78)	0.72 (7.78)	0.90 (9.72)	0.90 (9.72)	0.90 (9.72)	
	Tube diameter - mm (in.)	9.5 (3/8)	9.5 (3/8)	9.5 (3/8)	9.5 (3/8)	9.5 (3/8)	
	Number of rows	3	4	4	4	4	
	Fins per m (Fins per inch)	551 (14)	551 (14)	551 (14)	551 (14)	551 (14)	
	Drain connection (Number) and size - in.	(1) 1 NPT	(1) 1 NPT	(1) 1 NPT	(1) 1 NPT	(1) 1 NPT	
	Expansion device type	Balance port thermal expansion valve, removable head					
<sup>4</sup> Indoor Blower and Drive Selection	Nominal Motor kW (hp)	0.47 (0.63)	0.47 (0.63)	0.62 (0.83)	1.5 (2)	0.75 (1) 1.5 (2)	
	Maximum usable motor kW (hp)	0.54 (0.72)	0.54 (0.72)	0.71 (0.95)	1.7 (2.3)	0.88 (1.15)	
	Kit # (rev/min range)	A01 (low 374-561) (high 546-842)	A02 (low 414 621) (high 621-931)	A03 (low 463-694) (high 694-1042)	AA02 (527-729) AA03 (665-921) AA04 (768-1023)	---	
	Nominal Motor kW (hp)	0.62 (0.83)	1.24 (1.66)	1.24 (1.66)	---	---	
	Maximum usable motor kW (hp)	0.71 (0.95)	1.42 (1.91)	1.42 (1.91)	---	---	
	Kit # (rev/min range)	A05 (low 498-748) (high 748-1122)	A06 (low 595-794) (high 893-1191)	A07 (low 673-860) (high 1010 -1290)	---	---	
	Blower wheel nominal diameter x width - mm (in.)	(1) 254 x 254 10 x 10	(1) 254 x 254 (10 x 10)	(1) 254 x 254 (10 x 10)	(1) 381 x 229 (15 x 9)	(1) 381 x 229 (15 x 9)	
Filters	Type of filter	disposable					
	Number and size - mm (in.)	(4) 406 x 508 x 51 (16 x 20 x 2)	(4) 508 x 508 x 51 (20 x 20 x 2)				
<b>Electrical characteristics</b>		380/420V-50 hz-3 phase with neutral					

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

<sup>1,2</sup> Tested at conditions included in AHRI Standard <sup>1</sup> 210/240 or <sup>2</sup> 340/360; 35°C (95°F) outdoor air temperature and 27°C (80°F) dry bulb/19°C (67°F) wet bulb entering evaporator air; minimum external duct static pressure while operating at rated voltage and air volumes.

<sup>3</sup> Rated at 46°C (115°F) outdoor air temperature and 27°C (80°F) db/19°C (67°F) wb entering evaporator air (T3 Conditions).

<sup>4</sup> Using total air volume and system static pressure requirements determine from blower performance tables rev/min and motor output required. Maximum usable output of motors furnished are shown. If motors of comparable output are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

## SPECIFICATIONS - GAS HEAT

Model No.	036, 048, 060	072, 074	036, 048, 060	072, 074	036, 048, 060	072, 074	036, 048, 060	072, 074	048, 060	072, 074	048, 060	072, 074	
Heat Input Type	Standard (1 Stage)		Standard (2 Stage)		Medium (1 Stage)		Medium (2 Stage)		High (1 Stage)		High (2 Stage)		
Input kW (Btuh)	1st Stage	16.7 (57 000)		13.8 (47 000)		27.8 (95 000)		20.8 (71 000)		38.7 (132 000)		29.0 (99 000)	
	2nd Stage	---		18.1 (62 000)		---		27.8 (95 000)		---		38.7 (132 000)	
Output kW (Btuh)	1st Stage	13.5 (46 000)		11.1 (38 000)		22.3 (76 000)		16.7 (57 000)		31.1 (106 000)		23.2 (79 000)	
	2nd Stage	---		14.6 (50 000)		---		22.3 (76 000)		---		31.1 (106 000)	
Temperature Rise	1st Stage	6-22 (10-40)	3-19 (5-35)	3-19 (5-35)	3-19 (5-35)	14-36 (25-65)	6-22 (10-40)	11-28 (20-50)	3-19 (5-35)	22-39 (40-70)	11-28 (20-50)	14-31 (25-55)	6-22 (10-40)
Range °C (°F)	2nd Stage	---	---	6-22 (10-40)	6-22 (10-40)	---	---	14-36 (25-65)	6-22 (10-40)	---	---	22-39 (40-70)	11-28 (20-50)
<sup>1</sup> Thermal Efficiency	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%
Gas Supply Connections	1/2 in. NPT												
Recommended Gas Supply Pressure - Natural/LPG	1.7 kPa (7.0 in. w.c.) / 2.7 kPa (11.0 in. w.c.)												

<sup>1</sup> Thermal Efficiency at full input.

## HIGH ALTITUDE DERATE

NOTE - Units may be installed at altitudes up to 610 m (2000 ft) above sea level without any modifications. At altitudes above 610 m (2000 ft.), units must be derated to match information in the table shown. At altitudes above 1372 m (4500 ft.), unit must be derated 2% for each 305 m (1000 ft.) above sea level.

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

Heat Input Type	Altitude Feet		Gas Manifold Pressure				Input Rate	
			kPa		in. w.g.			
	Meters	Feet	Natural Gas	LPG/ Propane	Natural Gas	LPG/ Propane	kW	Btuh
Standard (1 stage)	610 - 1372	2001 - 4500	0.58	1.73	2.3	6.9	15.5	53 000
Medium (1 stage)	610 - 1372	2001 - 4500	0.58	1.73	2.3	6.9	25.8	88 000
Medium (2 stage)	610 - 1372	2001 - 4500	0.58 / 0.33	1.73 / 0.98	2.3 / 1.3	6.9 / 3.9	25.8 / 19.3	88 000 / 66 000
High (1 stage)	610 - 1372	2001 - 4500	0.58	1.73	2.3	6.9	35.8	122 000
High (2 stage)	610 - 1372	2001 - 4500	0.58 / 0.33	1.73 / 0.98	2.3 / 1.3	6.9 / 3.9	35.8 / 27.0	122 000 / 92 000

## COOLING RATINGS

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

### 10.6 kW - LGH036S4 (1ST STAGE)

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		18°C						24°C						29°C						35°C					
		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						
L/s	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kBtu/h	kW	24°C	27°C	29°C				
17°C	300	7.1	.93	0.71	0.85	1.00	6.7	1.09	0.72	0.88	1.00	6.2	1.26	0.73	0.91	1.00	5.8	1.47	0.75	0.94	1.00				
	380	7.5	.93	0.76	0.94	1.00	7.1	1.08	0.77	0.97	1.00	6.6	1.25	0.79	1.00	1.00	6.2	1.45	0.82	1.00	1.00				
	455	7.9	.92	0.81	1.00	1.00	7.4	1.07	0.84	1.00	1.00	7.0	1.24	0.87	1.00	1.00	6.6	1.44	0.90	1.00	1.00				
19°C	300	7.5	.93	0.56	0.68	0.81	7.1	1.08	0.57	0.70	0.83	6.7	1.25	0.57	0.71	0.86	6.2	1.45	0.57	0.73	0.89				
	380	7.9	.92	0.59	0.74	0.90	7.5	1.07	0.59	0.75	0.93	7.0	1.24	0.60	0.77	0.96	6.5	1.44	0.61	0.79	1.00				
	455	8.3	.92	0.62	0.79	0.98	7.8	1.07	0.62	0.81	1.00	7.3	1.24	0.65	0.84	1.00	6.8	1.44	0.66	0.87	1.00				
22°C	300	8.0	.92	0.42	0.54	0.66	7.6	1.07	0.42	0.55	0.68	7.1	1.24	0.42	0.56	0.69	6.6	1.44	0.42	0.56	0.70				
	380	8.4	.92	0.44	0.58	0.72	7.9	1.06	0.44	0.59	0.73	7.4	1.24	0.43	0.58	0.75	6.9	1.43	0.43	0.60	0.77				
	455	8.7	.92	0.45	0.61	0.77	8.2	1.06	0.44	0.62	0.79	7.7	1.23	0.45	0.63	0.81	7.2	1.42	0.46	0.65	0.85				

### 10.6 kW - LGH036S4 (2ND STAGE)

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		26.7°C						35°C						43.3°C						46°C					
		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						
L/s	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C					
17.2°C	455	9.2	1.80	0.74	0.91	1.00	8.4	2.13	0.76	0.95	1.00	7.5	2.54	0.79	1.00	1.00	7.3	2.70	0.82	1.00	1.00				
	565	9.6	1.81	0.80	1.00	1.00	8.9	2.15	0.83	1.00	1.00	8.1	2.56	0.88	1.00	1.00	7.8	2.71	0.92	1.00	1.00				
	680	10.1	1.83	0.86	1.00	1.00	9.3	2.16	0.92	1.00	1.00	8.4	2.57	0.97	1.00	1.00	8.2	2.72	0.99	1.00	1.00				
19.4°C	455	9.7	1.82	0.58	0.72	0.87	8.9	2.15	0.59	0.74	0.91	8.0	2.56	0.60	0.77	0.96	7.7	2.71	0.61	0.81	0.98				
	565	10.1	1.83	0.61	0.78	0.96	9.3	2.16	0.63	0.81	1.00	8.3	2.57	0.65	0.86	1.00	8.0	2.71	0.67	0.89	1.00				
	680	10.5	1.84	0.65	0.84	1.00	9.6	2.17	0.67	0.89	1.00	8.6	2.57	0.70	0.95	1.00	8.2	2.72	0.72	0.97	1.00				
21.7°C	455	10.3	1.84	0.43	0.57	0.70	9.4	2.16	0.42	0.58	0.72	8.5	2.57	0.43	0.59	0.75	8.1	2.72	0.43	0.61	0.78				
	565	10.7	1.85	0.45	0.61	0.76	9.8	2.17	0.44	0.62	0.79	8.8	2.57	0.45	0.64	0.83	8.5	2.72	0.46	0.67	0.87				
	680	11.0	1.86	0.46	0.64	0.83	10.1	2.18	0.47	0.66	0.87	9.1	2.58	0.47	0.69	0.93	8.7	2.73	0.48	0.72	0.96				
Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		48°C						50°C						51.7°C											
		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						
L/s	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C					
17.2°C	455	7.1	2.82	0.84	1.00	1.00	6.9	2.95	0.85	1.00	1.00	6.7	3.07	0.84	1.00	1.00	7.2	3.08	0.96	1.00	1.00				
	565	7.6	2.83	0.93	1.00	1.00	7.4	2.96	0.95	1.00	1.00	7.2	3.08	0.96	1.00	1.00	7.9	3.09	1.00	1.00	1.00				
	680	8.0	2.84	1.00	1.00	1.00	7.7	2.97	1.00	1.00	1.00	7.5	3.09	1.00	1.00	1.00	8.0	3.09	1.00	1.00	1.00				
19.4°C	455	7.4	2.82	0.62	0.81	1.00	7.2	2.95	0.63	0.83	1.00	7.0	3.07	0.62	0.82	1.00	7.7	3.08	0.68	0.93	1.00				
	565	7.7	2.83	0.68	0.91	1.00	7.5	2.96	0.69	0.92	1.00	7.2	3.08	0.68	0.93	1.00	8.0	3.09	0.73	1.00	1.00				
	680	8.0	2.84	0.73	0.99	1.00	7.7	2.96	0.74	1.00	1.00	7.5	3.09	0.73	1.00	1.00	8.2	3.09	0.74	1.00	1.00				
21.7°C	455	7.9	2.84	0.43	0.61	0.79	7.6	2.97	0.43	0.62	0.80	7.4	3.08	0.42	0.62	0.79	8.0	3.09	0.46	0.68	0.91				
	565	8.2	2.84	0.46	0.68	0.88	7.9	2.97	0.46	0.69	0.90	7.7	3.09	0.46	0.68	0.91	8.3	3.09	0.48	0.73	1.00				
	680	8.4	2.85	0.48	0.73	0.97	8.1	2.97	0.48	0.74	0.99	7.9	3.09	0.48	0.73	1.00	8.5	3.09	0.49	0.74	1.00				

## COOLING RATINGS

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

### 14 kW - LGH048S4 (1ST STAGE)

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		18°C						24°C						29°C						35°C	
		Total Cool Cap. Input	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. Input	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. Input	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. Input	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
L/s		kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kBtu/h	kW	24°C	27°C	29°C
17°C	400	9.7	1.13	0.69	0.84	1.00	9.1	1.36	0.70	0.86	1.00	8.6	1.60	0.71	0.89	1.00	7.9	1.87	0.72	0.91	1.00
	505	10.2	1.12	0.75	0.94	1.00	9.7	1.34	0.76	0.97	1.00	9.1	1.59	0.77	1.00	1.00	8.5	1.86	0.79	1.00	1.00
	605	10.8	1.11	0.81	1.00	1.00	10.3	1.33	0.83	1.00	1.00	9.7	1.57	0.86	1.00	1.00	9.1	1.85	0.89	1.00	1.00
19°C	400	10.4	1.12	0.55	0.68	0.80	9.8	1.34	0.55	0.68	0.82	9.2	1.58	0.55	0.69	0.84	8.6	1.86	0.54	0.70	0.87
	505	11.0	1.11	0.57	0.72	0.89	10.4	1.33	0.56	0.74	0.92	9.7	1.57	0.59	0.75	0.95	9.1	1.85	0.60	0.77	0.99
	605	11.4	1.10	0.61	0.78	0.98	10.8	1.32	0.62	0.79	1.00	10.1	1.56	0.62	0.83	1.00	9.4	1.84	0.64	0.85	1.00
22°C	400	11.1	1.10	0.42	0.53	0.64	10.6	1.32	0.41	0.54	0.65	9.9	1.57	0.40	0.54	0.66	9.2	1.84	0.40	0.54	0.68
	505	11.7	1.09	0.42	0.56	0.70	11.0	1.31	0.39	0.55	0.71	10.4	1.56	0.43	0.57	0.73	9.7	1.83	0.40	0.58	0.75
	605	12.2	1.08	0.43	0.60	0.76	11.5	1.30	0.42	0.61	0.77	10.8	1.55	0.44	0.62	0.79	10.1	1.82	0.43	0.63	0.82

### 14 kW - LGH048S4 (2ND STAGE)

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		26.7°C						35°C						43.3°C						46°C	
		Total Cool Cap. Input	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. Input	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. Input	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. Input	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
L/s		kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C
17.2°C	605	12.4	2.27	0.73	0.90	1.00	11.3	2.69	0.75	0.95	1.00	10.1	3.20	0.78	1.00	1.00	9.8	3.39	0.83	1.00	1.00
	755	13.1	2.29	0.79	1.00	1.00	12.1	2.71	0.82	1.00	1.00	10.9	3.24	0.88	1.00	1.00	10.5	3.43	0.92	1.00	1.00
	905	13.9	2.31	0.87	1.00	1.00	12.7	2.74	0.92	1.00	1.00	11.6	3.26	0.98	1.00	1.00	11.2	3.46	1.00	1.00	1.00
19.4°C	605	13.3	2.29	0.57	0.71	0.86	12.1	2.71	0.56	0.72	0.90	10.9	3.23	0.59	0.76	0.96	10.4	3.42	0.60	0.80	0.99
	755	13.9	2.31	0.61	0.77	0.97	12.7	2.74	0.61	0.80	1.00	11.3	3.25	0.63	0.85	1.00	10.8	3.44	0.66	0.89	1.00
	905	14.3	2.33	0.64	0.84	1.00	13.1	2.75	0.66	0.89	1.00	11.7	3.27	0.69	0.96	1.00	11.2	3.45	0.72	0.98	1.00
21.7°C	605	14.2	2.32	0.42	0.56	0.68	12.9	2.74	0.41	0.56	0.70	11.6	3.26	0.41	0.57	0.73	11.2	3.46	0.42	0.60	0.78
	755	14.8	2.34	0.44	0.59	0.75	13.5	2.76	0.43	0.61	0.77	12.1	3.28	0.43	0.62	0.82	11.6	3.47	0.44	0.65	0.87
	905	15.2	2.35	0.45	0.64	0.81	13.9	2.77	0.45	0.65	0.86	12.5	3.30	0.47	0.68	0.93	12.0	3.49	0.48	0.72	0.96
Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		48°C						50°C						51.7°C							
		Total Cool Cap. Input	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. Input	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. Input	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. Input	Comp. Motor Input	Sensible To Total Ratio (S/T)		
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb		
L/s		kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C
17.2°C	605	9.5	3.56	0.84	1.00	1.00	9.2	3.72	0.85	1.00	1.00	9.0	3.88	0.84	1.00	1.00	8.8	3.98	0.86	1.00	1.00
	755	10.2	3.58	0.94	1.00	1.00	10.0	3.75	0.95	1.00	1.00	9.6	3.91	0.96	1.00	1.00	9.4	4.02	0.90	1.00	1.00
	905	10.8	3.61	1.00	1.00	1.00	10.5	3.78	1.00	1.00	1.00	10.2	3.93	1.00	1.00	1.00	10.0	4.06	0.94	1.00	1.00
19.4°C	605	10.1	3.58	0.61	0.81	1.00	9.7	3.74	0.61	0.82	1.00	9.4	3.90	0.60	0.80	1.00	9.2	4.09	0.66	0.93	1.00
	755	10.5	3.60	0.67	0.91	1.00	10.1	3.76	0.68	0.93	1.00	9.8	3.92	0.66	0.93	1.00	9.6	4.12	0.68	0.95	1.00
	905	10.8	3.61	0.72	0.99	1.00	10.4	3.77	0.75	1.00	1.00	10.2	3.93	0.72	1.00	1.00	10.0	4.15	0.70	0.97	1.00
21.7°C	605	10.8	3.60	0.42	0.59	0.78	10.4	3.77	0.41	0.60	0.80	10.1	3.93	0.40	0.60	0.78	9.9	4.18	0.44	0.66	0.90
	755	11.3	3.63	0.45	0.66	0.89	10.8	3.79	0.45	0.67	0.90	10.5	3.95	0.44	0.66	0.90	10.3	4.21	0.46	0.68	0.92
	905	11.6	3.64	0.48	0.72	0.97	11.2	3.81	0.50	0.73	0.99	10.8	3.97	0.45	0.72	1.00	10.1	4.24	0.48	0.70	0.94

## COOLING RATINGS

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

### 17.6 kW - LGH060S4 (1ST STAGE)

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		18°C						24°C						29°C						35°C					
		Total Cool Cap. Input	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						
L/s	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kBtu/h	kW	24°C	27°C	29°C	
17°C	505	12.0	1.33	0.72	0.86	1.00	11.3	1.60	0.72	0.88	1.00	10.6	1.89	0.73	0.90	1.00	9.8	2.21	0.73	0.92	1.00				
	630	12.7	1.31	0.77	0.93	1.00	12.0	1.58	0.77	0.96	1.00	11.3	1.88	0.78	0.99	1.00	10.6	2.19	0.82	1.00	1.00				
	755	13.3	1.29	0.82	1.00	1.00	12.7	1.56	0.84	1.00	1.00	12.0	1.86	0.87	1.00	1.00	11.3	2.18	0.90	1.00	1.00				
19°C	505	12.9	1.30	0.56	0.69	0.82	12.2	1.58	0.57	0.70	0.84	11.5	1.87	0.57	0.71	0.86	10.7	2.19	0.56	0.71	0.87				
	630	13.6	1.28	0.59	0.74	0.89	12.9	1.56	0.60	0.76	0.92	12.1	1.85	0.59	0.76	0.95	11.2	2.17	0.60	0.78	0.99				
	755	14.1	1.26	0.62	0.79	0.98	13.3	1.54	0.62	0.81	1.00	12.5	1.84	0.66	0.83	1.00	11.7	2.16	0.65	0.87	1.00				
22°C	505	13.8	1.27	0.43	0.55	0.67	13.1	1.55	0.43	0.55	0.67	12.3	1.85	0.42	0.55	0.69	11.4	2.17	0.40	0.55	0.69				
	630	14.5	1.25	0.46	0.58	0.71	13.8	1.53	0.43	0.59	0.73	12.9	1.83	0.43	0.58	0.74	12.0	2.15	0.42	0.59	0.75				
	755	15.0	1.23	0.47	0.61	0.77	14.2	1.51	0.48	0.61	0.79	13.4	1.82	0.46	0.63	0.82	12.4	2.14	0.45	0.64	0.83				

### 17.6 kW - LGH060S4 (2ND STAGE)

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		26.7°C						35°C						43.3°C						46°C					
		Total Cool Cap. Input	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						
L/s	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	
17.2°C	755	15.6	2.67	0.75	0.91	1.00	14.2	3.17	0.76	0.95	1.00	12.7	3.78	0.79	0.99	1.00	12.3	4.00	0.82	1.00	1.00				
	945	16.4	2.69	0.80	1.00	1.00	15.2	3.20	0.83	1.00	1.00	13.8	3.82	0.88	1.00	1.00	13.3	4.04	0.91	1.00	1.00				
	1135	17.4	2.72	0.88	1.00	1.00	16.0	3.23	0.92	1.00	1.00	14.6	3.85	0.97	1.00	1.00	14.1	4.07	0.99	1.00	1.00				
19.4°C	755	16.7	2.70	0.58	0.72	0.87	15.2	3.20	0.58	0.74	0.91	13.7	3.81	0.58	0.76	0.95	13.2	4.04	0.59	0.79	0.97				
	945	17.5	2.73	0.61	0.78	0.96	16.0	3.23	0.63	0.81	1.00	14.3	3.84	0.64	0.86	1.00	13.8	4.07	0.66	0.88	1.00				
	1135	18.1	2.75	0.65	0.86	1.00	16.5	3.25	0.67	0.89	1.00	14.8	3.86	0.70	0.95	1.00	14.2	4.08	0.72	0.97	1.00				
21.7°C	755	17.8	2.74	0.43	0.57	0.70	16.4	3.24	0.42	0.57	0.72	14.7	3.85	0.41	0.58	0.74	14.2	4.07	0.42	0.59	0.76				
	945	18.6	2.76	0.44	0.60	0.76	17.1	3.27	0.45	0.62	0.79	15.4	3.88	0.44	0.64	0.83	14.8	4.10	0.45	0.65	0.86				
	1135	19.3	2.78	0.46	0.65	0.82	17.6	3.29	0.46	0.66	0.87	15.9	3.91	0.46	0.69	0.92	15.3	4.13	0.47	0.71	0.94				
Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																		48°C					
																				50°C					
		Total Cool Cap. Input	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						
L/s	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	
17.2°C	755	11.9	4.18	0.83	1.00	1.00	11.6	4.38	0.84	1.00	1.00	11.3	4.56	0.84	1.00	1.00	12.2	4.59	0.95	1.00	1.00				
	945	12.9	4.22	0.92	1.00	1.00	12.5	4.42	0.94	1.00	1.00	12.2	4.59	0.95	1.00	1.00	12.9	4.63	1.00	1.00	1.00				
	1135	13.7	4.26	1.00	1.00	1.00	13.3	4.45	1.00	1.00	1.00	12.9	4.63	1.00	1.00	1.00	13.8	4.67	1.00	1.00	1.00				
19.4°C	755	12.8	4.22	0.61	0.80	0.98	12.3	4.41	0.61	0.81	1.00	11.9	4.58	0.61	0.81	1.00	12.9	4.63	0.72	1.00	1.00				
	945	13.4	4.24	0.67	0.90	1.00	12.9	4.43	0.68	0.91	1.00	12.5	4.61	0.67	0.92	1.00	13.3	4.67	0.70	1.00	1.00				
	1135	13.8	4.26	0.72	0.98	1.00	13.3	4.44	0.73	0.99	1.00	12.9	4.62	0.72	1.00	1.00	14.2	4.71	0.74	1.00	1.00				
21.7°C	755	13.7	4.25	0.42	0.60	0.77	13.3	4.45	0.41	0.60	0.78	12.9	4.62	0.42	0.60	0.78	13.8	4.67	0.48	0.73	0.99				
	945	14.4	4.29	0.45	0.66	0.87	13.9	4.48	0.45	0.67	0.88	13.5	4.66	0.44	0.67	0.89	14.6	4.71	0.50	0.75	1.00				
	1135	14.8	4.31	0.48	0.72	0.96	14.3	4.50	0.48	0.73	0.97	13.8	4.67	0.48	0.73	0.99	15.4	4.75	0.53	0.78	1.00				

## COOLING RATINGS

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

### 21 kW - LGH072H4 (FULL LOAD)

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		26.7°C						35°C						43.3°C						46°C					
		Total Cool Cap. Input	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						
L/s		kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C				
17.2°C	905	19.1	3.55	0.72	0.90	1.00	17.5	4.15	0.74	0.95	1.00	15.6	4.86	0.77	1.00	1.00	15.1	5.11	0.83	1.00	1.00				
	1135	20.1	3.56	0.78	1.00	1.00	18.6	4.16	0.81	1.00	1.00	16.9	4.88	0.88	1.00	1.00	16.3	5.13	0.92	1.00	1.00				
	1360	21.2	3.58	0.86	1.00	1.00	19.6	4.17	0.91	1.00	1.00	17.9	4.89	0.98	1.00	1.00	17.2	5.15	1.00	1.00	1.00				
19.4°C	905	20.4	3.57	0.56	0.70	0.86	18.7	4.16	0.57	0.72	0.90	16.8	4.87	0.57	0.74	0.95	16.1	5.13	0.61	0.80	0.98				
	1135	21.3	3.58	0.59	0.76	0.97	19.5	4.17	0.60	0.79	1.00	17.5	4.89	0.62	0.84	1.00	16.9	5.14	0.67	0.89	1.00				
	1360	22.0	3.58	0.63	0.83	1.00	20.2	4.18	0.65	0.88	1.00	18.1	4.89	0.68	0.95	1.00	17.4	5.15	0.72	0.98	1.00				
21.7°C	905	21.7	3.58	0.41	0.55	0.68	20.0	4.17	0.41	0.56	0.70	17.9	4.89	0.41	0.57	0.72	17.2	5.15	0.41	0.59	0.77				
	1135	22.7	3.59	0.43	0.58	0.74	20.8	4.19	0.43	0.60	0.77	18.7	4.90	0.43	0.62	0.80	18.0	5.16	0.44	0.65	0.86				
	1360	23.4	3.60	0.44	0.63	0.80	21.4	4.19	0.45	0.64	0.85	19.3	4.91	0.46	0.67	0.92	18.6	5.17	0.47	0.71	0.95				
Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		48°C						50°C						51.7°C											
		Total Cool Cap. Input	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					Dry Bulb	
L/s		kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C				
17.2°C	905	14.7	5.32	0.83	1.00	1.00	14.3	5.55	0.85	1.00	1.00	13.9	5.75	0.84	1.00	1.00	14.7	5.32	0.83	1.00	1.00				
	1135	15.8	5.34	0.93	1.00	1.00	15.4	5.56	0.95	1.00	1.00	14.9	5.77	0.96	1.00	1.00	15.8	5.34	0.93	1.00	1.00				
	1360	16.8	5.36	1.00	1.00	1.00	16.2	5.58	1.00	1.00	1.00	15.7	5.79	1.00	1.00	1.00	16.8	5.36	1.00	1.00	1.00				
19.4°C	905	15.6	5.34	0.61	0.81	1.00	15.0	5.55	0.62	0.82	1.00	14.5	5.75	0.60	0.79	1.00	15.6	5.34	0.61	0.81	1.00				
	1135	16.4	5.35	0.67	0.91	1.00	15.8	5.57	0.68	0.93	1.00	15.2	5.78	0.66	0.93	1.00	16.4	5.35	0.67	0.91	1.00				
	1360	16.8	5.36	0.73	0.99	1.00	16.2	5.58	0.74	1.00	1.00	15.7	5.78	0.71	1.00	1.00	16.8	5.36	0.73	0.99	1.00				
21.7°C	905	16.7	5.35	0.42	0.60	0.78	16.2	5.58	0.42	0.61	0.80	15.6	5.78	0.41	0.59	0.77	16.7	5.35	0.42	0.60	0.78				
	1135	17.4	5.37	0.45	0.67	0.88	16.9	5.59	0.45	0.68	0.90	16.3	5.80	0.44	0.65	0.89	17.4	5.37	0.45	0.67	0.88				
	1360	18.0	5.38	0.48	0.72	0.97	17.3	5.60	0.48	0.74	0.99	16.7	5.81	0.47	0.71	0.99	18.0	5.38	0.48	0.72	0.97				

## COOLING RATINGS

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

### 21 kW - LGH074H4 (1ST STAGE)

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		18°C						24°C						29°C						35°C					
		Total Cool Cap. Input	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						
L/s	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kBtuh	kW	24°C	27°C	29°C				
17°C	565	13.7	1.85	0.74	0.88	0.97	13.1	2.13	0.75	0.90	0.99	12.5	2.40	0.76	0.92	1.00	11.7	2.77	0.78	0.95	1.00				
	755	14.8	1.84	0.81	0.98	1.00	14.1	2.12	0.82	1.00	1.00	13.5	2.39	0.84	1.00	1.00	12.8	2.76	0.86	1.00	1.00				
	945	16.0	1.82	0.88	1.00	1.00	15.3	2.11	0.90	1.00	1.00	14.6	2.38	0.92	1.00	1.00	13.7	2.75	0.95	1.00	1.00				
19°C	565	14.7	1.84	0.59	0.74	0.82	14.0	2.13	0.60	0.75	0.84	13.3	2.40	0.61	0.76	0.86	12.5	2.77	0.62	0.78	0.88				
	755	15.8	1.83	0.65	0.82	0.92	15.0	2.11	0.66	0.82	0.94	14.3	2.39	0.64	0.84	0.96	13.3	2.76	0.67	0.87	0.99				
	945	16.5	1.82	0.69	0.89	1.00	15.7	2.10	0.71	0.91	1.00	15.0	2.38	0.71	0.93	1.00	14.0	2.75	0.73	0.96	1.00				
22°C	565	16.1	1.82	0.41	0.53	0.62	15.3	2.11	0.42	0.54	0.63	14.6	2.38	0.41	0.55	0.64	13.7	2.75	0.41	0.56	0.65				
	755	17.2	1.81	0.43	0.59	0.69	16.4	2.09	0.43	0.60	0.70	15.6	2.37	0.42	0.60	0.71	14.7	2.74	0.43	0.61	0.73				
	945	18.1	1.79	0.45	0.63	0.74	17.2	2.08	0.45	0.64	0.75	16.4	2.36	0.45	0.64	0.78	15.4	2.73	0.46	0.67	0.80				

### 21 kW - LGH074H4 (2ND STAGE)

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		26.7°C						35°C						43.3°C						46°C					
		Total Cool Cap. Input	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						
L/s	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C					
17.2°C	905	18.0	3.22	0.80	0.97	1.00	16.5	3.85	0.82	1.00	1.00	15.1	4.63	0.86	1.00	1.00	14.7	4.91	0.87	1.00	1.00				
	1135	19.1	3.25	0.87	1.00	1.00	17.8	3.90	0.90	1.00	1.00	16.2	4.66	0.95	1.00	1.00	15.7	4.94	0.97	1.00	1.00				
	1360	20.2	3.28	0.94	1.00	1.00	18.6	3.92	0.98	1.00	1.00	17.1	4.70	1.00	1.00	1.00	16.6	4.98	1.00	1.00	1.00				
19.4°C	905	19.0	3.25	0.64	0.81	0.91	17.5	3.88	0.65	0.83	0.95	15.8	4.65	0.67	0.86	0.99	15.2	4.93	0.68	0.88	1.00				
	1135	19.9	3.27	0.69	0.88	0.99	18.2	3.91	0.70	0.91	1.00	16.5	4.68	0.73	0.97	1.00	15.9	4.95	0.75	0.98	1.00				
	1360	20.5	3.29	0.73	0.95	1.00	18.8	3.93	0.76	0.99	1.00	17.1	4.69	0.79	1.00	1.00	16.5	4.97	0.81	1.00	1.00				
21.7°C	905	20.6	3.30	0.43	0.59	0.68	18.9	3.93	0.43	0.60	0.70	17.1	4.70	0.42	0.61	0.72	16.6	4.98	0.43	0.62	0.74				
	1135	21.5	3.32	0.44	0.62	0.74	19.7	3.96	0.45	0.64	0.77	17.8	4.72	0.45	0.66	0.80	17.2	5.00	0.44	0.68	0.82				
	1360	22.1	3.35	0.46	0.66	0.80	20.3	3.99	0.47	0.69	0.84	18.3	4.75	0.47	0.72	0.88	17.7	5.02	0.47	0.73	0.90				
Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		48°C						50°C						51.7°C											
		Total Cool Cap. Input	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						
L/s	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C	kW	24°C	27°C	29°C					
17.2°C	905	14.3	5.14	0.88	1.00	1.00	14.0	5.37	0.89	1.00	1.00	13.6	5.57	0.91	1.00	1.00	14.7	5.87	0.92	1.00	1.00				
	1135	15.3	5.16	0.98	1.00	1.00	14.9	5.40	0.99	1.00	1.00	14.5	5.60	1.00	1.00	1.00	15.7	6.04	0.97	1.00	1.00				
	1360	16.1	5.20	1.00	1.00	1.00	15.7	5.43	1.00	1.00	1.00	15.2	5.62	1.00	1.00	1.00	16.6	6.29	1.00	1.00	1.00				
19.4°C	905	14.8	5.15	0.68	0.90	1.00	14.3	5.37	0.69	0.91	1.00	13.9	5.57	0.69	0.92	1.00	14.6	5.87	0.77	1.00	1.00				
	1135	15.4	5.17	0.75	0.99	1.00	14.9	5.40	0.76	1.00	1.00	14.6	5.60	0.77	1.00	1.00	15.7	6.04	0.77	1.00	1.00				
	1360	16.0	5.19	0.82	1.00	1.00	15.6	5.42	0.82	1.00	1.00	15.3	5.63	0.83	1.00	1.00	16.6	6.29	0.83	1.00	1.00				
21.7°C	905	16.1	5.19	0.43	0.63	0.75	15.6	5.42	0.43	0.63	0.76	15.2	5.62	0.42	0.63	0.76	15.7	6.04	0.46	0.70	0.86				
	1135	16.7	5.22	0.45	0.68	0.83	16.2	5.45	0.45	0.69	0.84	15.8	5.65	0.46	0.70	0.86	17.2	6.31	0.46	0.70	0.86				
	1360	17.2	5.24	0.48	0.74	0.91	16.7	5.47	0.48	0.75	0.93	16.1	5.66	0.48	0.76	0.94	17.7	6.31	0.48	0.70	0.86				

## DEHUMIDIFICATION SYSTEM RATINGS

### 10.6 kW - LGH036S4 with DEHUMIDIFICATION OPERATING

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		18°C						24°C						29°C						35°C	
		Total Cool Cap. Input	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		
L/s	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	
17°C	300	5.8	1.34	0.51	0.68	0.83	4.8	1.48	0.43	0.64	0.83	3.8	1.63	0.33	0.58	0.83	2.7	1.81	0.12	0.47	0.82
	380	6.2	1.36	0.57	0.75	0.93	5.1	1.49	0.51	0.73	0.94	3.9	1.64	0.31	0.70	0.98	2.7	1.81	0.18	0.63	0.86
	455	6.5	1.37	0.61	0.82	1.00	5.3	1.50	0.57	0.82	1.00	4.0	1.65	0.47	0.81	1.00	2.7	1.81	0.28	0.79	1.00
19°C	300	6.6	1.36	0.37	0.51	0.65	5.6	1.50	0.28	0.45	0.62	4.5	1.66	0.15	0.36	0.57	3.4	1.83	-0.06	0.22	0.49
	380	7.0	1.38	0.40	0.57	0.72	5.9	1.51	0.30	0.50	0.71	4.8	1.67	0.17	0.36	0.67	3.5	1.83	-0.06	0.29	0.62
	455	7.3	1.39	0.42	0.61	0.79	6.1	1.52	0.34	0.57	0.78	4.8	1.67	0.20	0.50	0.78	3.4	1.83	-0.04	0.38	0.75
22°C	300	7.4	1.38	0.25	0.38	0.51	6.3	1.52	0.16	0.31	0.45	5.2	1.68	0.02	0.21	0.38	4.1	1.85	-0.19	0.05	0.27
	380	7.9	1.40	0.26	0.41	0.55	6.7	1.53	0.16	0.33	0.51	5.5	1.68	0.02	0.23	0.44	4.2	1.85	-0.22	0.08	0.31
	455	8.2	1.41	0.27	0.44	0.60	6.9	1.54	0.17	0.37	0.56	5.6	1.69	0.02	0.26	0.51	4.2	1.85	-0.24	0.10	0.42

### 14 kW - LGH048S4 with DEHUMIDIFICATION OPERATING

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		18°C						24°C						29°C						35°C	
		Total Cool Cap. Input	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		
L/s	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kWtuh	kW	24°C	27°C	29°C	
17°C	420	7.9	1.67	0.50	0.67	0.83	6.6	1.86	0.43	0.63	0.83	5.2	2.07	0.33	0.58	0.83	3.9	2.29	0.18	0.50	0.84
	525	8.4	1.69	0.56	0.75	0.94	6.9	1.87	0.43	0.74	0.85	5.5	2.08	0.41	0.70	1.00	3.9	2.29	0.26	0.68	0.93
	630	8.8	1.70	0.60	0.85	1.00	7.2	1.88	0.57	0.84	0.99	5.6	2.08	0.47	0.84	1.00	4.0	2.30	0.35	0.76	0.81
19°C	420	9.0	1.70	0.35	0.49	0.64	7.6	1.89	0.27	0.44	0.61	6.3	2.10	0.16	0.35	0.56	4.8	2.33	-0.01	0.25	0.50
	525	9.5	1.72	0.31	0.54	0.71	8.1	1.91	0.30	0.50	0.70	6.5	2.11	0.19	0.42	0.67	4.9	2.33	0.00	0.32	0.65
	630	9.9	1.73	0.40	0.60	0.80	8.3	1.92	0.33	0.57	0.80	6.7	2.11	0.21	0.49	0.80	4.9	2.33	0.03	0.40	0.79
22°C	420	10.1	1.73	0.23	0.35	0.48	8.7	1.93	0.15	0.29	0.43	7.3	2.14	0.04	0.20	0.36	5.9	2.36	-0.14	0.07	0.28
	525	10.6	1.75	0.24	0.39	0.54	9.3	1.95	0.15	0.27	0.49	7.6	2.14	0.03	0.23	0.43	6.0	2.37	-0.16	0.10	0.36
	630	11.1	1.77	0.24	0.41	0.58	9.4	1.95	0.15	0.35	0.55	7.7	2.15	0.03	0.26	0.50	6.0	2.37	-0.18	0.13	0.34

### 17.6 kW - LGH060S4 with DEHUMIDIFICATION OPERATING

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		18°C						24°C						29°C						35°C	
		Total Cool Cap. Input	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		
L/s	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kWtuh	kW	24°C	27°C	29°C	
17°C	510	9.4	2.28	0.46	0.64	0.82	7.5	2.53	0.37	0.59	0.81	5.7	2.81	0.20	0.50	0.80	3.7	3.11	-0.09	0.33	0.77
	635	9.9	2.30	0.52	0.73	0.94	7.9	2.55	0.43	0.69	0.96	5.8	2.82	0.28	0.63	0.98	3.7	3.11	-0.03	0.50	1.00
	765	10.4	2.31	0.57	0.81	1.00	8.1	2.56	0.49	0.80	1.00	5.9	2.82	0.35	0.77	1.00	3.5	3.11	0.05	0.74	1.00
19°C	510	10.8	2.32	0.31	0.46	0.62	8.9	2.58	0.21	0.38	0.56	7.0	2.85	0.05	0.28	0.50	5.0	3.16	-0.24	0.08	0.38
	635	11.5	2.34	0.34	0.52	0.69	9.4	2.60	0.25	0.44	0.62	7.3	2.87	0.02	0.34	0.62	5.1	3.17	-0.24	0.15	0.52
	765	12.0	2.36	0.36	0.56	0.77	9.7	2.61	0.26	0.51	0.75	7.4	2.88	0.08	0.40	0.73	5.0	3.17	-0.25	0.23	0.67
22°C	510	12.3	2.36	0.20	0.33	0.46	10.4	2.62	0.10	0.24	0.40	8.4	2.90	-0.06	0.13	0.31	6.4	3.22	-0.32	-0.07	0.16
	635	13.1	2.39	0.21	0.36	0.51	10.8	2.65	0.10	0.28	0.45	8.6	2.92	-0.07	0.16	0.31	6.5	3.23	-0.36	-0.06	0.23
	765	13.6	2.41	0.21	0.38	0.56	11.3	2.66	0.10	0.30	0.51	8.9	2.93	-0.08	0.18	0.43	6.5	3.23	-0.40	-0.04	0.30

### 21 kW - LGH072H4 with DEHUMIDIFICATION OPERATING

Entering Wet Bulb Temper- ature
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## DEHUMIDIFICATION SYSTEM RATINGS

### 21 kW - LGH074H4 with DEHUMIDIFICATION OPERATING

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																				
		18°C						24°C						29°C						35°C		
		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			
L/s	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kW	kW	24°C	27°C	29°C	kBtuh	kW	24°C	27°C	29°C		
17°C	565	10.0	2.62	0.46	0.63	0.80	8.0	2.88	0.39	0.58	0.76	6.2	3.20	0.21	0.49	0.76	4.2	3.57	-0.10	0.32	0.73	
	755	10.7	2.66	0.53	0.74	0.95	8.8	2.91	0.44	0.65	0.97	6.5	3.21	0.30	0.60	0.99	4.1	3.57	-0.02	0.55	1.00	
	945	11.2	2.69	0.60	0.84	1.00	8.8	2.92	0.52	0.84	1.00	6.4	3.21	0.39	0.83	1.00	3.8	3.55	0.11	0.85	1.00	
19°C	565	11.4	2.68	0.31	0.46	0.61	9.5	2.94	0.20	0.39	0.57	7.5	3.26	0.04	0.27	0.49	5.5	3.63	-0.25	0.07	0.37	
	755	12.3	2.72	0.35	0.52	0.71	10.1	2.97	0.23	0.46	0.68	7.8	3.27	0.06	0.35	0.63	5.5	3.63	-0.27	0.15	0.55	
	945	12.8	2.75	0.38	0.59	0.81	10.4	2.99	0.26	0.53	0.80	7.9	3.28	0.09	0.44	0.78	5.4	3.62	-0.26	0.26	0.76	
22°C	565	12.9	2.73	0.19	0.33	0.45	10.9	3.00	0.08	0.24	0.40	9.0	3.32	-0.08	0.11	0.30	6.9	3.70	-0.35	-0.10	0.16	
	755	13.8	2.78	0.20	0.37	0.52	11.6	3.03	0.08	0.28	0.47	9.3	3.34	-0.10	0.15	0.33	7.0	3.70	-0.41	-0.08	0.24	
	945	14.4	2.81	0.20	0.40	0.59	12.0	3.06	0.08	0.31	0.54	9.5	3.35	-0.12	0.18	0.47	6.9	3.70	-0.48	-0.06	0.34	

## BLOWER DATA - BELT DRIVE - LGH036

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

- 1 - Any factory installed options air resistance (heat section, economizer, etc.).
- 2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 30 for blower motors and drives and wet coil and options/accessory air resistance data.

### DOWNFLOW

Air Volume	External Static - Pa (in.w.g.)																														
	25 (0.10)			50 (0.20)			75 (0.30)			100 (0.40)			125 (0.50)			150 (0.60)			175 (0.70)			200 (0.80)			225 (0.90)			250 (1.00)			
L/s	cfm	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP
330	700	453	0.05	0.07	523	0.08	0.11	596	0.10	0.14	679	0.13	0.17	762	0.16	0.21	828	0.18	0.24	927	0.19	0.26	979	0.22	0.29	1029	0.23	0.31			
380	800	471	0.07	0.09	542	0.10	0.13	614	0.12	0.16	696	0.14	0.19	777	0.16	0.21	841	0.17	0.23	889	0.19	0.26	938	0.22	0.29	990	0.23	0.31	1042	0.25	0.34
425	900	493	0.08	0.11	563	0.11	0.15	634	0.14	0.19	715	0.16	0.21	793	0.17	0.23	854	0.19	0.26	902	0.22	0.29	950	0.24	0.32	1002	0.25	0.34	1054	0.27	0.36
470	1000	517	0.10	0.14	587	0.13	0.18	657	0.16	0.21	736	0.18	0.24	811	0.19	0.26	869	0.22	0.29	916	0.24	0.32	964	0.26	0.35	1015	0.28	0.37	1067	0.30	0.40
520	1100	544	0.13	0.17	613	0.16	0.21	683	0.18	0.24	759	0.20	0.27	831	0.22	0.30	886	0.24	0.32	931	0.27	0.36	978	0.28	0.38	1028	0.31	0.41	1078	0.32	0.43
565	1200	574	0.15	0.20	643	0.18	0.24	711	0.20	0.27	784	0.22	0.30	852	0.25	0.33	904	0.27	0.36	947	0.29	0.39	993	0.31	0.42	1042	0.34	0.45	1091	0.35	0.47
615	1300	608	0.18	0.24	676	0.21	0.28	743	0.23	0.31	812	0.25	0.34	875	0.28	0.37	923	0.30	0.40	964	0.33	0.44	1010	0.34	0.46	1057	0.37	0.49	1104	0.38	0.51
660	1400	645	0.21	0.28	711	0.23	0.31	776	0.26	0.35	842	0.28	0.38	898	0.31	0.41	942	0.33	0.44	983	0.36	0.48	1028	0.38	0.51	1074	0.40	0.53	1120	0.42	0.56

Air Volume	External Static - Pa (in.w.g.)																														
	275 (1.10)			300 (1.20)			325 (1.30)			350 (1.40)			375 (1.50)			400 (1.60)			425 (1.70)			450 (1.80)			475 (1.90)			500 (2.00)			
L/s	cfm	Rev/min	kW	BHP	Rev/min	kW	BHP																								
330	700	1078	0.25	0.33	1124	0.27	0.36	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
380	800	1091	0.27	0.36	1137	0.29	0.39	1180	0.31	0.41	1221	0.33	0.44	1260	0.35	0.47	---	---	---	---	---	---	---	---	---	---	---	---	---		
425	900	1105	0.29	0.39	1150	0.31	0.42	1192	0.34	0.45	1232	0.35	0.47	1270	0.37	0.50	1307	0.40	0.53	1345	0.42	0.56	1382	0.44	0.59	1420	0.46	0.62	---	---	
470	1000	1117	0.31	0.42	1162	0.34	0.45	1203	0.36	0.48	1242	0.38	0.51	1279	0.40	0.54	1316	0.43	0.57	1353	0.45	0.60	1390	0.47	0.63	1427	0.49	0.66	1465	0.52	0.70
520	1100	1126	0.34	0.46	1171	0.37	0.49	1212	0.39	0.52	1251	0.42	0.56	1288	0.44	0.59	1325	0.46	0.62	1361	0.48	0.65	1397	0.51	0.68	1433	0.53	0.71	1470	0.56	0.75
565	1200	1137	0.37	0.50	1180	0.40	0.54	1222	0.43	0.57	1260	0.45	0.60	1298	0.48	0.64	1334	0.50	0.67	1369	0.52	0.70	1404	0.54	0.73	1440	0.57	0.77	1477	0.60	0.80
615	1300	1149	0.41	0.55	1191	0.43	0.58	1232	0.46	0.62	1270	0.48	0.65	1307	0.51	0.69	1343	0.54	0.72	1378	0.57	0.76	1413	0.59	0.79	1449	0.61	0.82	1486	0.64	0.86
660	1400	1163	0.45	0.60	1204	0.47	0.63	1243	0.50	0.67	1281	0.53	0.71	1317	0.55	0.74	1353	0.58	0.78	1388	0.61	0.82	1423	0.63	0.85	1459	0.66	0.89	1496	0.69	0.92

## BLOWER DATA - BELT DRIVE - LGHO36

### BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 30 for blower motors and drives and wet coil and options/accessory air resistance data.

### HORIZONTAL

Air Volume	External Static - Pa (in.w.g.)							
	25 (0.10)	50 (0.20)	75 (0.30)	100 (0.40)	125 (0.50)	150 (0.60)	175 (0.70)	200 (0.80)
L/s cfm	Rev/min	kW BHP	Rev/min	kW BHP	Rev/min	kW BHP	Rev/min	kW BHP
330 700	440 0.05	0.07 510	0.07 0.10	585 0.09	0.12 657	0.10 0.14 726	0.13 0.17 793	0.15 0.20 856
380 800	456 0.06	0.08 526	0.08 0.11	600 0.10	0.14 672	0.12 0.16 739	0.14 0.19 804	0.16 0.22 866
425 900	474 0.07	0.10 544	0.10 0.13	617 0.12	0.16 688	0.13 0.18 754	0.16 0.21 818	0.18 0.24 877
470 1000	495 0.09	0.12 565	0.11 0.15	637 0.13	0.18 707	0.16 0.21 771	0.17 0.23 832	0.20 0.27 889
520 1100	518 0.10	0.14 588	0.13 0.18	659 0.16	0.21 727	0.17 0.23 789	0.19 0.26 848	0.22 0.30 903
565 1200	544 0.13	0.17 613	0.16 0.21	682 0.18	0.24 748	0.20 0.27 809	0.22 0.29 866	0.25 0.33 918
615 1300	572 0.16	0.21 640	0.18 0.24	707 0.20	0.27 771	0.22 0.30 830	0.25 0.33 884	0.28 0.37 934
660 1400	602 0.18	0.24 669	0.21 0.28	733 0.23	0.31 795	0.25 0.34 851	0.28 0.37 903	0.31 0.41 950

Air Volume	External Static - Pa (in.w.g.)							
	250 (1.00)	225 (0.90)	200 (0.80)	175 (0.70)	150 (0.60)	125 (0.50)	100 (0.40)	75 (0.30)
L/s cfm	Rev/min	kW BHP	Rev/min	kW BHP	Rev/min	kW BHP	Rev/min	kW BHP
330 700	1065 0.25	0.33 ---	--- ---	--- ---	--- ---	--- ---	--- ---	--- ---
380 800	1075 0.27	0.36 1122	0.29 0.39	1164 0.31 0.42	1203 0.34 0.45	1241 0.35 0.47	--- ---	--- ---
425 900	1086 0.29	0.39 1133	0.31 0.42	1174 0.34 0.45	1213 0.36 0.48	1250 0.38 0.51	1286 0.40 0.54	1322 0.43 0.57
470 1000	1094 0.32	0.43 1142	0.34 0.46	1183 0.37 0.49	1222 0.39 0.52	1259 0.41 0.55	1295 0.43 0.58	1330 0.46 0.62
520 1100	1102 0.34	0.46 1148	0.37 0.49	1191 0.40 0.53	1230 0.42 0.56	1267 0.45 0.60	1303 0.47 0.63	1338 0.49 0.66
565 1200	1110 0.37	0.50 1156	0.40 0.53	1198 0.43 0.57	1238 0.45 0.61	1275 0.48 0.64	1311 0.51 0.68	1346 0.53 0.71
615 1300	1120 0.40	0.54 1164	0.43 0.58	1207 0.46 0.62	1246 0.48 0.65	1283 0.51 0.69	1319 0.54 0.73	1354 0.57 0.76
660 1400	1131 0.44	0.59 1175	0.47 0.63	1216 0.50 0.67	1255 0.52 0.70	1292 0.55 0.74	1327 0.58 0.78	1362 0.60 0.81

## BLOWER DATA - BELT DRIVE - LGH048

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

- 1 - Any factory installed options air resistance (heat section, economizer, etc.).
- 2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 30 for blower motors and drives and wet coil and options/accessory air resistance data.

#### DOWNFLOW

External Static - Pa (in.w.g.)																															
Air																															
Volume		25 (0.10)		50 (0.20)		75 (0.30)		100 (0.40)		125 (0.50)		150 (0.60)		175 (0.70)		200 (0.80)		225 (0.90)		250 (1.00)											
L/s	cfm	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP									
425	900	502	0.09	0.12	573	0.11	0.15	644	0.14	0.19	725	0.16	0.22	802	0.18	0.24	861	0.19	0.26	908	0.22	0.29	957	0.24	0.32	1009	0.25	0.34	1061	0.28	0.37
470	1000	528	0.10	0.14	598	0.13	0.18	668	0.16	0.22	747	0.18	0.24	821	0.20	0.27	877	0.22	0.30	923	0.25	0.33	971	0.26	0.35	1022	0.28	0.38	1074	0.30	0.40
520	1100	557	0.13	0.17	626	0.16	0.21	695	0.19	0.25	772	0.21	0.28	841	0.22	0.30	894	0.25	0.33	939	0.27	0.36	986	0.29	0.39	1037	0.31	0.41	1087	0.33	0.44
565	1200	589	0.16	0.21	657	0.19	0.25	725	0.21	0.28	798	0.23	0.31	864	0.25	0.33	913	0.28	0.37	956	0.30	0.40	1003	0.32	0.43	1052	0.34	0.45	1100	0.36	0.48
615	1300	625	0.19	0.25	692	0.21	0.28	759	0.24	0.32	827	0.25	0.34	887	0.28	0.37	933	0.31	0.41	975	0.33	0.44	1021	0.35	0.47	1068	0.37	0.49	1115	0.39	0.52
660	1400	665	0.22	0.29	730	0.24	0.32	794	0.26	0.35	857	0.28	0.38	911	0.31	0.42	953	0.34	0.45	995	0.37	0.49	1040	0.39	0.52	1086	0.40	0.54	1131	0.43	0.57
710	1500	706	0.25	0.33	768	0.27	0.36	829	0.29	0.39	886	0.32	0.43	934	0.34	0.46	974	0.37	0.50	1015	0.40	0.54	1060	0.42	0.56	1105	0.44	0.59	1149	0.46	0.62
755	1600	746	0.28	0.37	805	0.30	0.40	862	0.33	0.44	914	0.36	0.48	957	0.39	0.52	996	0.41	0.55	1037	0.44	0.59	1081	0.46	0.62	1126	0.48	0.64	1167	0.51	0.68
800	1700	784	0.31	0.42	840	0.34	0.45	893	0.37	0.49	940	0.40	0.53	980	0.43	0.57	1019	0.45	0.61	1060	0.48	0.64	1104	0.50	0.67	1147	0.52	0.70	1187	0.55	0.74
850	1800	821	0.35	0.47	874	0.38	0.51	923	0.41	0.55	967	0.44	0.59	1006	0.47	0.63	1044	0.50	0.67	1085	0.52	0.70	1128	0.54	0.73	1170	0.57	0.77	1208	0.61	0.82
895	1900	857	0.40	0.53	906	0.43	0.57	952	0.46	0.62	994	0.49	0.66	1032	0.52	0.70	1071	0.54	0.73	1112	0.57	0.76	1154	0.60	0.80	1194	0.63	0.85	1230	0.67	0.90

External Static - Pa (in.w.g.)																															
Air																															
Volume		275 (1.10)		300 (1.20)		325 (1.30)		350 (1.40)		375 (1.50)		400 (1.60)		425 (1.70)		450 (1.80)		475 (1.90)		500 (2.00)											
L/s	cfm	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP									
425	900	1111	0.29	0.39	1156	0.31	0.42	1197	0.34	0.45	1236	0.36	0.48	1275	0.38	0.51	1312	0.40	0.54	1349	0.42	0.56	1387	0.44	0.59	1424	0.46	0.62	-- --	-- --	-- --
470	1000	1124	0.32	0.43	1168	0.34	0.46	1209	0.37	0.49	1247	0.39	0.52	1285	0.41	0.55	1322	0.43	0.58	1358	0.45	0.61	1395	0.48	0.64	1432	0.50	0.67	1470	0.52	0.70
520	1100	1134	0.35	0.47	1178	0.37	0.50	1219	0.40	0.53	1258	0.42	0.56	1295	0.45	0.60	1331	0.47	0.63	1367	0.49	0.66	1403	0.51	0.69	1439	0.54	0.72	1477	0.56	0.75
565	1200	1146	0.38	0.51	1189	0.40	0.54	1230	0.43	0.58	1268	0.45	0.61	1305	0.48	0.65	1341	0.51	0.68	1376	0.53	0.71	1411	0.55	0.74	1447	0.57	0.77	1485	0.60	0.81
615	1300	1159	0.41	0.55	1201	0.44	0.59	1241	0.47	0.63	1279	0.49	0.66	1315	0.52	0.70	1351	0.54	0.73	1386	0.57	0.77	1421	0.60	0.80	1457	0.62	0.83	1495	0.65	0.87
660	1400	1173	0.45	0.61	1214	0.48	0.64	1253	0.51	0.68	1290	0.54	0.72	1327	0.56	0.75	1362	0.59	0.79	1397	0.61	0.82	1432	0.64	0.86	1468	0.66	0.89	1506	0.69	0.93
710	1500	1189	0.49	0.66	1228	0.52	0.70	1266	0.55	0.74	1303	0.58	0.78	1339	0.60	0.81	1374	0.63	0.85	1409	0.66	0.89	1445	0.69	0.92	1481	0.72	0.96	1519	0.75	1.00
755	1600	1206	0.54	0.72	1244	0.57	0.76	1281	0.60	0.80	1317	0.63	0.84	1353	0.66	0.88	1388	0.69	0.92	1423	0.72	0.96	1459	0.75	1.00	1496	0.78	1.04	1535	0.81	1.08
800	1700	1224	0.59	0.79	1261	0.62	0.83	1298	0.65	0.87	1334	0.68	0.91	1369	0.71	0.95	1404	0.74	0.99	1440	0.77	1.03	1476	0.80	1.07	1513	0.84	1.12	1552	0.87	1.16
850	1800	1244	0.64	0.86	1280	0.68	0.91	1316	0.71	0.95	1352	0.74	0.99	1387	0.77	1.03	1422	0.80	1.07	1457	0.83	1.11	1494	0.87	1.16	1532	0.89	1.20	1570	0.92	1.24
895	1900	1265	0.71	0.95	1301	0.75	1.00	1336	0.78	1.04	1371	0.81	1.08	1406	0.84	1.12	1441	0.87	1.16	1477	0.89	1.20	1515	0.92	1.24	1553	0.96	1.29	1592	0.99	1.33

## BLOWER DATA - BELT DRIVE - LGH048

### BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 30 for blower motors and drives and wet coil and options/accessory air resistance data.

### HORIZONTAL

External Static - Pa (in.w.g.)																															
Air Volume																															
25 (0.10)			50 (0.20)			75 (0.30)			100 (0.40)			125 (0.50)			150 (0.60)			175 (0.70)			200 (0.80)			225 (0.90)			250 (1.00)				
L/s	cfm	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP			
425	900	483	0.07	0.10	554	0.10	0.13	627	0.12	0.16	699	0.14	0.19	765	0.16	0.22	826	0.18	0.24	882	0.20	0.27	935	0.22	0.30	986	0.25	0.33	1039	0.27	0.36
470	1000	505	0.09	0.12	576	0.12	0.16	648	0.14	0.19	719	0.16	0.21	784	0.18	0.24	842	0.20	0.27	896	0.22	0.30	947	0.25	0.33	998	0.28	0.37	1050	0.30	0.40
520	1100	530	0.11	0.15	601	0.13	0.18	671	0.16	0.21	741	0.18	0.24	804	0.20	0.27	860	0.22	0.30	912	0.25	0.34	961	0.28	0.37	1010	0.30	0.40	1060	0.32	0.43
565	1200	558	0.13	0.18	627	0.16	0.22	696	0.19	0.25	764	0.21	0.28	824	0.22	0.30	878	0.25	0.34	928	0.28	0.37	975	0.31	0.41	1023	0.33	0.44	1072	0.35	0.47
615	1300	588	0.16	0.22	656	0.19	0.25	723	0.21	0.28	788	0.23	0.31	846	0.25	0.34	897	0.28	0.38	945	0.31	0.42	990	0.34	0.45	1037	0.36	0.48	1084	0.38	0.51
660	1400	621	0.19	0.25	687	0.22	0.29	752	0.24	0.32	814	0.26	0.35	868	0.28	0.38	916	0.31	0.42	962	0.34	0.46	1006	0.37	0.50	1052	0.40	0.53	1098	0.42	0.56
710	1500	655	0.22	0.29	719	0.25	0.33	781	0.27	0.36	839	0.29	0.39	890	0.32	0.43	936	0.35	0.47	979	0.38	0.51	1023	0.41	0.55	1068	0.43	0.58	1113	0.45	0.61
755	1600	690	0.25	0.33	751	0.28	0.37	810	0.30	0.40	865	0.33	0.44	912	0.36	0.48	955	0.39	0.52	997	0.42	0.56	1041	0.45	0.60	1086	0.47	0.63	1129	0.49	0.66
800	1700	725	0.28	0.38	784	0.31	0.41	839	0.34	0.45	891	0.37	0.49	935	0.40	0.53	975	0.43	0.58	1017	0.46	0.62	1060	0.48	0.65	1104	0.51	0.68	1147	0.54	0.72
850	1800	761	0.31	0.42	816	0.34	0.46	868	0.37	0.50	916	0.41	0.55	957	0.44	0.59	997	0.48	0.64	1038	0.51	0.68	1081	0.53	0.71	1124	0.55	0.79	1165	0.59	0.79
895	1900	795	0.36	0.48	848	0.39	0.52	897	0.42	0.56	942	0.45	0.61	981	0.49	0.66	1020	0.52	0.70	1060	0.55	0.74	1103	0.57	0.77	1145	0.60	0.81	1183	0.63	0.85

External Static - Pa (in.w.g.)																															
Air Volume																															
275 (1.10)			300 (1.20)			325 (1.30)			350 (1.40)			375 (1.50)			400 (1.60)			425 (1.70)			450 (1.80)			475 (1.90)			500 (2.00)				
L/s	cfm	Rev/min	kW	BHP																											
425	900	1091	0.30	0.40	1138	0.32	0.43	1180	0.34	0.46	1220	0.37	0.49	1257	0.40	0.53	1293	0.42	0.56	1329	0.44	0.59	1364	0.46	0.62	1400	0.48	0.65	1435	0.51	0.69
470	1000	1101	0.32	0.43	1149	0.34	0.46	1190	0.37	0.50	1229	0.40	0.53	1266	0.43	0.57	1302	0.45	0.60	1338	0.47	0.63	1373	0.49	0.66	1408	0.52	0.70	1444	0.54	0.73
520	1100	1110	0.34	0.46	1156	0.37	0.50	1199	0.40	0.54	1238	0.43	0.57	1275	0.45	0.61	1311	0.48	0.64	1346	0.50	0.67	1381	0.53	0.71	1416	0.55	0.74	1452	0.58	0.78
565	1200	1119	0.37	0.50	1165	0.40	0.54	1207	0.43	0.58	1247	0.46	0.62	1284	0.48	0.65	1319	0.51	0.69	1355	0.54	0.72	1389	0.56	0.75	1425	0.59	0.79	1460	0.61	0.82
615	1300	1130	0.41	0.55	1175	0.44	0.59	1216	0.47	0.63	1255	0.49	0.66	1292	0.52	0.70	1328	0.55	0.74	1363	0.57	0.77	1398	0.60	0.80	1433	0.63	0.84	1469	0.65	0.87
660	1400	1143	0.45	0.60	1186	0.47	0.63	1226	0.50	0.67	1265	0.53	0.71	1302	0.56	0.75	1337	0.59	0.79	1372	0.61	0.82	1406	0.63	0.85	1441	0.66	0.89	1477	0.69	0.93
710	1500	1156	0.48	0.65	1198	0.51	0.69	1237	0.54	0.73	1275	0.57	0.77	1311	0.60	0.80	1346	0.63	0.84	1381	0.66	0.88	1415	0.68	0.91	1450	0.71	0.95	1486	0.73	0.98
755	1600	1171	0.52	0.70	1211	0.55	0.74	1249	0.58	0.78	1286	0.61	0.82	1321	0.64	0.86	1356	0.67	0.90	1390	0.69	0.93	1425	0.72	0.97	1460	0.75	1.01	1496	0.78	1.05
800	1700	1186	0.57	0.76	1225	0.60	0.80	1262	0.63	0.84	1298	0.66	0.88	1333	0.69	0.92	1367	0.72	0.96	1401	0.75	1.00	1436	0.77	1.03	1471	0.80	1.07	1507	0.84	1.12
850	1800	1202	0.62	0.83	1240	0.65	0.87	1276	0.68	0.91	1311	0.71	0.95	1345	0.74	0.99	1380	0.77	1.03	1413	0.80	1.07	1448	0.83	1.11	1483	0.86	1.15	1520	0.89	1.19
895	1900	1220	0.67	0.90	1256	0.70	0.94	1291	0.74	0.99	1326	0.77	1.03	1360	0.80	1.07	1393	0.82	1.10	1427	0.85	1.14	1462	0.88	1.18	1497	0.91	1.22	1534	0.95	1.27

## BLOWER DATA - BELT DRIVE - LGH060

**FOR ALL UNITS ADD:**  
1 - Any factory installed options air resistance (heat section, economizer, etc.).  
2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 30 for blower motors and drives and wet coil and options/accessory air resistance data.

### DOWNFLOW

Air		25 (0.10)			50 (0.20)			75 (0.30)			100 (0.40)			125 (0.50)			150 (0.60)			175 (0.70)			200 (0.80)			225 (0.90)			250 (1.00)		
L/s	cfm	Rev/ min	kW	BHP																											
520	1100	503	0.10	0.14	569	0.13	0.17	636	0.15	0.20	703	0.17	0.23	769	0.19	0.26	842	0.21	0.28	909	0.22	0.30	964	0.25	0.33	1008	0.27	0.36	1049	0.30	0.40
565	1200	525	0.12	0.16	590	0.15	0.20	657	0.17	0.23	722	0.19	0.26	787	0.22	0.29	857	0.23	0.31	921	0.25	0.34	974	0.28	0.37	1016	0.30	0.40	1056	0.32	0.43
615	1300	548	0.14	0.19	613	0.17	0.23	679	0.19	0.26	743	0.22	0.29	806	0.24	0.32	873	0.26	0.35	934	0.28	0.37	984	0.31	0.41	1026	0.33	0.44	1065	0.35	0.47
660	1400	574	0.16	0.22	638	0.19	0.26	702	0.22	0.30	765	0.25	0.33	827	0.27	0.36	891	0.29	0.39	949	0.31	0.41	996	0.34	0.45	1037	0.36	0.48	1076	0.38	0.51
710	1500	609	0.19	0.25	671	0.22	0.29	733	0.25	0.33	793	0.27	0.36	851	0.29	0.39	911	0.31	0.42	965	0.34	0.46	1010	0.37	0.49	1049	0.40	0.53	1088	0.42	0.56
755	1600	654	0.21	0.28	712	0.24	0.32	769	0.27	0.36	825	0.29	0.39	879	0.32	0.43	933	0.35	0.47	982	0.37	0.50	1024	0.40	0.54	1063	0.43	0.58	1101	0.45	0.61
800	1700	703	0.23	0.31	756	0.26	0.35	807	0.29	0.39	858	0.32	0.43	906	0.35	0.47	955	0.38	0.51	999	0.41	0.55	1039	0.44	0.59	1078	0.47	0.63	1117	0.49	0.66
850	1800	752	0.25	0.34	798	0.28	0.38	844	0.32	0.43	889	0.36	0.48	933	0.39	0.52	977	0.43	0.57	1017	0.45	0.61	1056	0.48	0.65	1094	0.51	0.68	1133	0.54	0.72
895	1900	796	0.28	0.38	837	0.32	0.43	878	0.36	0.48	918	0.40	0.53	958	0.43	0.58	997	0.46	0.62	1036	0.50	0.67	1074	0.53	0.71	1112	0.55	0.77	1151	0.57	0.77
945	2000	833	0.32	0.43	870	0.36	0.48	907	0.40	0.54	943	0.44	0.59	980	0.48	0.64	1018	0.51	0.69	1055	0.54	0.73	1093	0.57	0.77	1131	0.60	0.80	1170	0.62	0.83
990	2100	864	0.37	0.50	897	0.41	0.55	931	0.45	0.60	966	0.48	0.65	1002	0.53	0.71	1038	0.57	0.76	1075	0.60	0.80	1113	0.62	0.83	1151	0.65	0.87	1189	0.67	0.90
1040	2200	887	0.43	0.57	920	0.46	0.62	953	0.50	0.67	988	0.54	0.73	1024	0.58	0.78	1060	0.62	0.83	1097	0.65	0.87	1135	0.67	0.90	1173	0.70	0.94	1210	0.73	0.98
1085	2300	909	0.48	0.64	942	0.52	0.70	976	0.56	0.75	1011	0.60	0.81	1046	0.64	0.86	1083	0.68	0.91	1120	0.71	0.95	1157	0.73	0.98	1195	0.76	1.02	1231	0.79	1.06
1135	2400	931	0.54	0.72	965	0.58	0.78	999	0.62	0.83	1035	0.66	0.89	1071	0.70	0.94	1108	0.74	0.99	1144	0.77	1.03	1181	0.80	1.07	1217	0.82	1.10	1252	0.86	1.15

Air		275 (1.10)			300 (1.20)			325 (1.30)			350 (1.40)			375 (1.50)			400 (1.60)			425 (1.70)			450 (1.80)			475 (1.90)			500 (2.00)		
L/s	cfm	Rev/ min	kW	BHP																											
520	1100	1090	0.31	0.42	1132	0.34	0.45	1175	0.35	0.47	1216	0.37	0.50	1257	0.40	0.53	1296	0.42	0.56	1334	0.44	0.59	1370	0.46	0.62	1405	0.48	0.65	1439	0.51	0.69
565	1200	1097	0.34	0.46	1139	0.37	0.49	1181	0.38	0.51	1222	0.40	0.54	1263	0.43	0.57	1301	0.45	0.60	1338	0.47	0.63	1374	0.50	0.67	1409	0.52	0.70	1443	0.55	0.74
615	1300	1106	0.37	0.50	1147	0.40	0.53	1189	0.41	0.55	1230	0.43	0.58	1270	0.45	0.61	1307	0.48	0.65	1344	0.51	0.68	1379	0.54	0.72	1414	0.56	0.75	1447	0.59	0.79
660	1400	1116	0.40	0.54	1157	0.43	0.57	1198	0.45	0.60	1239	0.47	0.63	1278	0.49	0.66	1315	0.52	0.70	1351	0.55	0.74	1385	0.57	0.77	1419	0.60	0.81	1452	0.63	0.85
710	1500	1128	0.44	0.59	1168	0.46	0.62	1209	0.48	0.64	1249	0.51	0.68	1287	0.53	0.71	1323	0.56	0.75	1358	0.59	0.79	1393	0.62	0.83	1426	0.65	0.87	1458	0.68	0.91
755	1600	1141	0.48	0.64	1181	0.50	0.67	1222	0.52	0.70	1261	0.54	0.73	1298	0.57	0.77	1333	0.60	0.81	1367	0.63	0.85	1401	0.66	0.89	1433	0.69	0.93	1465	0.72	0.97
800	1700	1156	0.51	0.69	1196	0.54	0.72	1235	0.56	0.75	1273	0.59	0.79	1309	0.62	0.83	1344	0.65	0.87	1377	0.68	0.91	1410	0.72	0.96	1442	0.75	1.00	1473	0.78	1.04
850	1800	1172	0.56	0.75	1211	0.58	0.78	1250	0.60	0.81	1287	0.63	0.85	1322	0.67	0.90	1355	0.70	0.94	1388	0.73	0.98	1420	0.76	1.02	1451	0.80	1.07	1482	0.83	1.11
895	1900	1190	0.60	0.81	1228	0.63	0.84	1265	0.66	0.88	1301	0.69	0.92	1335	0.72	0.97	1367	0.75	1.01	1399	0.78	1.05	1431	0.82	1.10	1462	0.85	1.14	1492	0.88	1.18
945	2000	1208	0.65	0.87	1245	0.68	0.91	1281	0.72	0.96	1316	0.75	1.00	1349	0.78	1.04	1380	0.81	1.09	1412	0.84	1.13	1443	0.88	1.18	1473	0.91	1.22	1503	0.94	1.26
990	2100	1227	0.70	0.94	1263	0.74	0.98	1298	0.78	1.04	1331	0.81	1.08	1363	0.84	1.13	1394	0.87	1.17	1425	0.91	1.22	1455	0.94	1.26	1485	0.98	1.31	1515	1.01	1.35
1040	2200	1246	0.76	1.02	1281	0.80	1.07	1315	0.84	1.12	1347	0.87	1.17	1379	0.91	1.22	1409	0.94	1.26	1439	0.98	1.31	1469	1.01	1.36	1499	1.04	1.40	1529	1.08	1.45
1085	2300	1266	0.83	1.11	1300	0.87	1.16	1333	0.91	1.22	1364	0.95	1.27	1395	0.98	1.32	1424	1.01	1.36	1454	1.05	1.41	1484	1.09	1.46	1513	1.12	1.50	1543	1.16	1.55
1135	2400	1286	0.89	1.20	1319	0.94	1.26	1351	0.98	1.32	1382	1.03	1.38	1411	1.07	1.43	1440	1.10	1.48	1470	1.13	1.52	1499	1.17	1.57	1528	1.20	1.61	1558	1.24	1.66

BLOWER DATA - BELT DRIVE - LGH060

TABLE II. INFLUENCE OF BASE INITIATOR ON DRY INDOOR COATING RESISTANCE

COB ALI INITS ADD:

- Any factory installed options air resistance (heat section, economizer, etc.)
  - Any field installed accessories air resistance (duct resistance, diffuser, etc.)

20 for blower motors and drives and options/contingencies are maintained.

HORIZONTAL

Air Volume	External Static - Pa (in.w.g.)																														
	25 (0.10)			50 (0.20)			75 (0.30)			100 (0.40)			125 (0.50)			150 (0.60)			175 (0.70)			200 (0.80)			225 (0.90)			250 (1.00)			
L/s	cfm	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP			
5220	1100	503	0.10	0.14	569	0.13	0.17	636	0.15	0.20	703	0.17	0.23	769	0.19	0.26	842	0.21	0.28	909	0.22	0.30	964	0.25	0.33	1008	0.27	0.36	1049	0.30	0.40
5665	1200	525	0.12	0.16	590	0.15	0.20	657	0.17	0.23	722	0.19	0.26	787	0.22	0.29	857	0.23	0.31	921	0.25	0.34	974	0.28	0.37	1016	0.30	0.40	1056	0.32	0.43
6115	1300	548	0.14	0.19	613	0.17	0.23	679	0.19	0.26	743	0.22	0.29	806	0.24	0.32	873	0.26	0.35	934	0.28	0.37	984	0.31	0.41	1026	0.33	0.44	1065	0.35	0.47
6665	1400	574	0.16	0.22	638	0.19	0.26	702	0.22	0.30	765	0.25	0.33	827	0.27	0.36	891	0.29	0.39	949	0.31	0.41	996	0.34	0.45	1037	0.36	0.48	1076	0.38	0.51
7170	1500	609	0.19	0.25	671	0.22	0.29	733	0.25	0.33	793	0.27	0.36	851	0.29	0.39	911	0.31	0.42	965	0.34	0.46	1010	0.37	0.49	1049	0.40	0.53	1088	0.42	0.56
7575	1600	654	0.21	0.28	712	0.24	0.32	769	0.27	0.36	825	0.29	0.39	879	0.32	0.43	933	0.35	0.47	982	0.37	0.50	1024	0.40	0.54	1063	0.43	0.58	1101	0.45	0.61
8300	1700	703	0.23	0.31	756	0.26	0.35	807	0.29	0.39	858	0.32	0.43	906	0.35	0.47	955	0.38	0.51	999	0.41	0.55	1039	0.44	0.59	1078	0.47	0.63	1117	0.49	0.66
8350	1800	752	0.25	0.34	798	0.28	0.38	844	0.32	0.43	889	0.36	0.48	933	0.39	0.52	977	0.43	0.57	1017	0.45	0.61	1056	0.48	0.65	1094	0.51	0.68	1133	0.54	0.72
895	1900	796	0.28	0.38	837	0.32	0.43	878	0.36	0.48	918	0.40	0.53	958	0.43	0.58	997	0.46	0.62	1036	0.50	0.67	1074	0.53	0.71	1112	0.55	0.74	1151	0.57	0.77
945	2000	833	0.32	0.43	870	0.36	0.48	907	0.40	0.54	943	0.44	0.59	980	0.48	0.64	1018	0.51	0.69	1055	0.54	0.73	1093	0.57	0.77	1131	0.60	0.80	1170	0.62	0.83
990	2100	864	0.37	0.50	897	0.41	0.55	931	0.45	0.60	966	0.48	0.65	1002	0.53	0.71	1038	0.57	0.76	1075	0.60	0.80	1113	0.62	0.83	1151	0.65	0.87	1189	0.67	0.90
040	2200	887	0.43	0.57	920	0.46	0.62	953	0.50	0.67	988	0.54	0.73	1024	0.58	0.78	1060	0.62	0.83	1097	0.65	0.87	1135	0.67	0.90	1173	0.70	0.94	1210	0.73	0.98
085	2300	909	0.48	0.64	942	0.52	0.70	976	0.56	0.75	1011	0.60	0.81	1046	0.64	0.86	1083	0.68	0.91	1120	0.71	0.95	1157	0.73	0.98	1195	0.76	1.02	1231	0.79	1.06
135	2400	931	0.54	0.72	965	0.58	0.78	999	0.62	0.83	1035	0.66	0.89	1071	0.70	0.94	1108	0.74	0.99	1144	0.77	1.03	1181	0.80	1.07	1217	0.82	1.10	1252	0.86	1.15

Volume

**BLOWER DATA - BELT DRIVE - LGH072 / LGH074**
**BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.**  
 FOR ALL UNITS ADD:

- 1 - Any factory installed options air resistance (heat section, economizer, etc.).
- 
- 2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 30 for blower motors and drives and wet coil and options/accessory air resistance data.

**DOWNFLOW**

Air Volume										External Static - Pa (in.w.g.)																																							
25 (0.10)					50 (0.20)					75 (0.30)					100 (0.40)					125 (0.50)					150 (0.60)					175 (0.70)					200 (0.80)					225 (0.90)					250 (1.00)				
L/s	cfm	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP									
895	1900	510	0.34	0.45	544	0.37	0.5	579	0.41	0.55	614	0.45	0.6	649	0.48	0.65	684	0.52	0.7	718	0.55	0.74	752	0.59	0.79	784	0.62	0.83	812	0.66	0.88	820	0.69	0.93															
945	2000	526	0.37	0.49	560	0.41	0.55	595	0.45	0.6	629	0.48	0.65	663	0.52	0.7	697	0.56	0.75	730	0.59	0.79	763	0.63	0.84	794	0.66	0.88	820	0.69	0.93																		
990	2100	542	0.40	0.54	576	0.44	0.59	610	0.48	0.65	644	0.52	0.7	678	0.56	0.75	711	0.60	0.8	743	0.63	0.84	775	0.66	0.89	804	0.70	0.94	830	0.73	0.98																		
1040	2200	560	0.44	0.59	593	0.48	0.64	627	0.52	0.7	660	0.56	0.75	693	0.60	0.8	725	0.63	0.85	757	0.67	0.9	787	0.70	0.94	814	0.74	0.99	840	0.77	1.03																		
1085	2300	578	0.48	0.64	610	0.52	0.7	644	0.56	0.75	676	0.60	0.81	709	0.64	0.86	740	0.68	0.91	770	0.71	0.95	799	0.75	1	826	0.78	1.05	851	0.81	1.09																		
1135	2400	597	0.52	0.7	629	0.56	0.75	661	0.60	0.81	693	0.64	0.86	725	0.68	0.91	755	0.72	0.96	784	0.75	1.01	812	0.79	1.06	838	0.83	1.11	862	0.86	1.15																		
1180	2500	617	0.57	0.76	648	0.60	0.81	679	0.65	0.87	710	0.69	0.92	741	0.72	0.97	770	0.77	1.03	799	0.81	1.08	825	0.84	1.13	850	0.87	1.17	875	0.91	1.22																		
1225	2600	637	0.61	0.82	667	0.65	0.87	698	0.69	0.93	728	0.73	0.98	758	0.78	1.04	786	0.81	1.09	814	0.86	1.15	839	0.89	1.2	864	0.92	1.24	887	0.95	1.28																		
1275	2700	658	0.66	0.88	687	0.70	0.94	717	0.75	1	746	0.78	1.05	775	0.83	1.11	802	0.87	1.16	829	0.91	1.22	853	0.95	1.27	877	0.98	1.31	901	1.01	1.36																		
1320	2800	679	0.71	0.95	708	0.75	1.01	736	0.80	1.07	764	0.84	1.12	792	0.88	1.18	819	0.92	1.24	844	0.97	1.3	868	1.01	1.35	892	1.04	1.39	915	1.07	1.43																		
1370	2900	701	0.76	1.02	728	0.81	1.08	756	0.85	1.14	783	0.89	1.2	809	0.94	1.26	835	0.98	1.32	860	1.03	1.38	884	1.07	1.43	907	1.10	1.47	930	1.13	1.52																		

**Air Volume**

Air Volume										External Static - Pa (in.w.g.)																																							
275 (1.10)					300 (1.20)					325 (1.30)					350 (1.40)					375 (1.50)					400 (1.60)					425 (1.70)					450 (1.80)					475 (1.90)					500 (2.00)				
L/s	cfm	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP	Rev/ min	kW	BHP									
895	1900	837	0.69	0.92	861	0.72	0.96	886	0.75	1	913	0.78	1.04	939	0.80	1.07	966	0.83	1.11	992	0.87	1.16	1017	0.90	1.21	1041	0.95	1.27	1065	0.99	1.33																		
945	2000	845	0.72	0.97	870	0.75	1.01	895	0.78	1.05	921	0.81	1.09	948	0.84	1.12	974	0.87	1.17	999	0.91	1.22	1023	0.95	1.27	1047	0.99	1.33	1070	1.04	1.39																		
990	2100	855	0.76	1.02	879	0.79	1.06	904	0.82	1.1	930	0.85	1.14	956	0.88	1.18	982	0.91	1.22	1006	0.95	1.28	1030	1.00	1.34	1053	1.04	1.4	1075	1.09	1.46																		
1040	2200	865	0.81	1.08	889	0.84	1.12	914	0.86	1.15	940	0.89	1.19	966	0.92	1.24	990	0.96	1.29	1014	1.00	1.34	1037	1.05	1.41	1059	1.10	1.47	1081	1.15	1.54																		
1085	2300	875	0.84	1.13	900	0.87	1.17	925	0.90	1.21	951	0.93	1.25	976	0.97	1.3	999	1.01	1.35	1022	1.05	1.41	1044	1.10	1.48	1066	1.16	1.55	1087	1.21	1.62																		
1135	2400	887	0.89	1.19	912	0.92	1.23	936	0.95	1.27	961	0.98	1.32	986	1.02	1.37	1009	1.07	1.43	1031	1.11	1.49	1052	1.17	1.57	1073	1.22	1.64	1094	1.28	1.71																		
1180	2500	899	0.93	1.25	923	0.96	1.29	948	1.00	1.34	973	1.04	1.39	996	1.07	1.44	1018	1.13	1.51	1039	1.18	1.58	1060	1.23	1.65	1080	1.29	1.73	1101	1.34	1.8																		
1225	2600	912	0.98	1.32	936	1.01	1.36	960	1.05	1.41	984	1.09	1.46	1007	1.13	1.52	1028	1.19	1.59	1049	1.25	1.67	1069	1.30	1.75	1089	1.36	1.82	1109	1.41	1.89																		
1275	2700	925	1.04	1.4	949	1.07	1.44	973	1.11	1.49	996	1.16	1.55	1018	1.20	1.61	1038	1.26	1.69	1058	1.31	1.76	1078	1.37	1.84	1098	1.43	1.92	1118	1.48	1.99																		
1320	2800	939	1.10	1.47	962	1.13	1.52	985	1.17	1.57	1008	1.22	1.64	1029	1.28	1.71	1049	1.33	1.79	1069	1.39	1.87	1088	1.45	1.94	1107	1.51	2.02	1127	1.56	2.09																		
1370	2900	953	1.16	1.56	976	1.20	1.61	998	1.25	1.67	1020	1.29	1.73	1041	1.35	1.81	1060	1.41	1.89	1079	1.48	1.98	1098	1.54	2.06	1117	1.59	2.13	1137	1.65	2.21																		

## BLOWER DATA - BELT DRIVE - LGH072 / LGH074

### BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 30 for blower motors and drives and wet coil and options/Accessory air resistance data.

### HORIZONTAL

External Static - Pa (in.w.g.)																															
Air Volume																															
25 (0.10)			50 (0.20)			75 (0.30)			100 (0.40)			125 (0.50)			150 (0.60)			175 (0.70)			200 (0.80)			225 (0.90)			250 (1.00)				
L/s	cfm	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP	Rev/min	kW	BHP			
895	1900	485	0.41	0.55	516	0.43	0.57	549	0.44	0.59	583	0.46	0.62	618	0.48	0.65	654	0.51	0.69	689	0.54	0.73	724	0.57	0.77	758	0.61	0.82	790	0.64	0.86
945	2000	499	0.44	0.59	531	0.45	0.61	563	0.47	0.63	597	0.49	0.66	631	0.52	0.70	666	0.54	0.73	701	0.57	0.77	734	0.61	0.82	767	0.64	0.86	798	0.68	0.91
990	2100	514	0.47	0.63	546	0.48	0.65	578	0.51	0.68	611	0.53	0.71	645	0.55	0.74	679	0.58	0.78	712	0.61	0.82	745	0.64	0.86	777	0.68	0.91	806	0.72	0.96
1040	2200	530	0.51	0.68	562	0.52	0.70	594	0.54	0.73	627	0.57	0.76	660	0.59	0.79	693	0.62	0.83	725	0.65	0.87	757	0.69	0.92	787	0.72	0.96	816	0.75	1.01
1085	2300	548	0.54	0.73	579	0.56	0.75	610	0.58	0.78	643	0.60	0.81	675	0.63	0.85	707	0.66	0.88	738	0.69	0.93	769	0.72	0.97	798	0.76	1.02	826	0.79	1.06
1135	2400	566	0.58	0.78	596	0.60	0.81	628	0.63	0.84	659	0.65	0.87	691	0.67	0.90	722	0.70	0.94	752	0.73	0.98	782	0.77	1.03	810	0.81	1.08	837	0.84	1.12
1180	2500	585	0.63	0.84	615	0.64	0.86	645	0.67	0.90	676	0.69	0.93	707	0.72	0.96	737	0.75	1.00	767	0.78	1.05	795	0.81	1.09	822	0.85	1.14	848	0.89	1.19
1225	2600	604	0.67	0.90	634	0.69	0.93	664	0.72	0.96	694	0.74	0.99	724	0.77	1.03	753	0.80	1.07	781	0.83	1.11	809	0.86	1.15	835	0.89	1.20	861	0.93	1.25
1275	2700	624	0.72	0.96	653	0.74	0.99	682	0.76	1.02	712	0.79	1.06	741	0.81	1.09	769	0.84	1.13	796	0.88	1.18	823	0.91	1.22	849	0.95	1.27	873	0.98	1.32
1320	2800	645	0.76	1.02	673	0.78	1.05	701	0.81	1.09	730	0.84	1.16	758	0.87	1.21	785	0.89	1.20	812	0.93	1.25	838	0.96	1.29	862	1.00	1.34	886	1.04	1.39
1370	2900	665	0.81	1.09	693	0.84	1.12	721	0.87	1.16	748	0.89	1.19	775	0.92	1.23	802	0.95	1.27	827	0.98	1.32	852	1.01	1.36	877	1.05	1.41	900	1.09	1.46

External Static - Pa (in.w.g.)																															
Air Volume																															
275 (1.10)			300 (1.20)			325 (1.30)			350 (1.40)			375 (1.50)			400 (1.60)			425 (1.70)			450 (1.80)			475 (1.90)			500 (2.00)				
L/s	cfm	Rev/min	kW	BHP																											
895	1900	819	0.67	0.90	846	0.70	0.94	871	0.73	0.98	897	0.76	1.02	922	0.78	1.05	948	0.81	1.09	974	0.84	1.13	999	0.88	1.18	1025	0.92	1.23	1050	0.95	1.28
945	2000	826	0.71	0.95	852	0.74	0.99	877	0.77	1.03	902	0.79	1.06	928	0.82	1.10	953	0.85	1.14	979	0.88	1.18	1004	0.92	1.23	1029	0.95	1.28	1054	1.00	1.34
990	2100	834	0.75	1.00	859	0.78	1.04	884	0.81	1.08	909	0.84	1.12	934	0.86	1.15	960	0.89	1.20	985	0.92	1.24	1010	0.96	1.29	1034	1.01	1.35	1058	1.04	1.40
1040	2200	842	0.78	1.05	868	0.82	1.1	892	0.84	1.13	917	0.87	1.17	942	0.90	1.21	967	0.94	1.26	992	0.97	1.3	1016	1.01	1.36	1040	1.05	1.41	1063	1.10	1.47
1085	2300	852	0.83	1.11	877	0.86	1.15	901	0.89	1.19	926	0.92	1.23	950	0.95	1.27	975	0.98	1.32	999	1.02	1.37	1023	1.06	1.42	1046	1.10	1.48	1069	1.15	1.54
1135	2400	862	0.87	1.17	887	0.90	1.21	911	0.93	1.25	935	0.97	1.30	959	1.00	1.34	983	1.04	1.39	1007	1.07	1.44	1030	1.12	1.50	1053	1.16	1.56	1075	1.21	1.62
1180	2500	873	0.92	1.23	897	0.95	1.28	921	0.98	1.32	945	1.01	1.36	969	1.05	1.41	992	1.09	1.46	1016	1.13	1.52	1038	1.18	1.58	1060	1.22	1.64	1082	1.27	1.70
1225	2600	885	0.97	1.30	909	1.00	1.34	932	1.04	1.39	955	1.07	1.43	979	1.11	1.49	1002	1.15	1.54	1025	1.19	1.6	1047	1.24	1.66	1069	1.29	1.73	1090	1.33	1.79
1275	2700	897	1.02	1.37	920	1.05	1.41	944	1.09	1.46	967	1.13	1.51	990	1.17	1.57	1012	1.21	1.62	1034	1.26	1.69	1056	1.30	1.75	1077	1.36	1.82	1098	1.41	1.89
1320	2800	910	1.07	1.44	933	1.11	1.49	955	1.15	1.54	978	1.19	1.60	1001	1.23	1.65	1023	1.28	1.72	1044	1.33	1.78	1066	1.38	1.85	1086	1.43	1.99	1107	1.48	1.99
1370	2900	923	1.13	1.52	945	1.17	1.57	968	1.22	1.63	990	1.25	1.68	1012	1.30	1.75	1034	1.35	1.81	1055	1.40	1.88	1076	1.45	1.95	1096	1.51	2.02	1116	1.55	2.09

## BLOWER DATA

### BELT DRIVE KIT SPECIFICATIONS - 036-060

Model No.	Motor kW		Motor HP		No. of Speeds	Drive Kits and rev/min Range					
	Nom.	Max.	Nom.	Max.		A01	A02	A03	A05	A06	A07
036	0.47	0.54	0.63	0.72	2	low 374-561 high 561-842	---	---	---	---	---
	0.62	0.71	0.83	0.95	2	---	---	---	low 498-748 high 748-1122	---	---
048	0.47	0.54	0.63	0.72	2	---	low 414-621 high 621-931	---	---	---	---
	1.24	1.42	1.66	1.91	2	---	---	---	low 595-794 high 893-1191	---	---
060	0.62	0.71	0.83	0.95	2	---	---	low 463-694 high 694-1042	---	---	---
	1.24	1.42	1.66	1.91	2	---	---	---	---	---	low 673-860 high 1010-1290

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

### BELT DRIVE KIT SPECIFICATIONS - 072-074

Model No.	Motor kW		Motor HP		No. of Speeds	Drive Kits and rev/min Range		
	Nom.	Max.	Nom.	Max.		AA02	AA03	AA04
072	1.5	1.7	2	2.3	1	527-729		665-921
074	0.75	0.88	1	1.15	2	---	665-921	768-1023
	1.5	1.7	2	2.3	2	---	665-921	768-1023

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

### FACTORY INSTALLED OPTIONS/FIELD INSTALLED ACCESSORY AIR RESISTANCE - in. w.g.

Air Volume cfm	Wet Indoor Coil			Dehumidification Coil	Gas Heating		Econo-mizer	Filters	
	036	048	060, 072, 074		Medium Heat	High Heat		MERV 8	MERV 13

#### 036-048 MODELS

L/s	cfm	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.
380	800	2	0.01	2	0.01	---	---	0	0.00	5	0.02	5	0.02	10	0.04	10	0.04	12	0.05
470	1000	5	0.02	5	0.02	---	---	0	0.00	5	0.02	5	0.02	10	0.04	10	0.04	17	0.07
565	1200	7	0.03	10	0.04	---	---	2	0.01	5	0.02	5	0.02	10	0.04	10	0.04	17	0.07
660	1400	10	0.04	12	0.05	---	---	5	0.02	5	0.02	7	0.03	10	0.04	10	0.04	17	0.07
755	1600	12	0.05	15	0.06	---	---	7	0.03	7	0.03	10	0.04	10	0.04	10	0.04	17	0.07
850	1800	15	0.06	17	0.07	---	---	10	0.04	10	0.04	12	0.05	12	0.05	10	0.04	17	0.07
945	2000	20	0.08	22	0.09	---	---	10	0.04	10	0.04	15	0.06	12	0.05	12	0.05	20	0.08

#### 060, 072, 074 MODELS

L/s	cfm	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.
470	1000	---	---	---	5	0.02	0	0.00	5	0.02	5	0.02	10	0.04	7	0.03	12	0.05	
565	1200	---	---	---	10	0.04	0	0.00	5	0.02	5	0.02	10	0.04	7	0.03	17	0.07	
660	1400	---	---	---	12	0.05	2	0.01	5	0.02	7	0.03	10	0.04	10	0.04	17	0.07	
755	1600	---	---	---	17	0.07	5	0.02	7	0.03	10	0.04	10	0.04	10	0.04	17	0.07	
850	1800	---	---	---	20	0.08	5	0.02	7	0.03	12	0.05	12	0.05	12	0.05	17	0.07	
945	2000	---	---	---	24	0.10	7	0.03	10	0.04	15	0.06	12	0.05	12	0.05	17	0.07	
1040	2200	---	---	---	27	0.11	10	0.04	10	0.04	17	0.07	12	0.05	12	0.05	20	0.08	
1135	2400	---	---	---	32	0.13	10	0.04	12	0.05	20	0.08	12	0.05	12	0.05	20	0.08	
1225	2600	---	---	---	37	0.15	12	0.05	12	0.05	22	0.09	15	0.06	12	0.05	20	0.08	
1321	2800	---	---	---	40	0.16	12	0.05	15	0.06	24	0.10	15	0.06	12	0.05	20	0.08	
1416	3000	---	---	---	45	0.18	15	0.06	17	0.07	27	0.11	15	0.06	12	0.05	20	0.08	

## BLOWER DATA

### POWER EXHAUST FAN PERFORMANCE

Return Air System Static Pressure		Air Volume Exhausted	
Pa	in. w.g.	L/s	cfm
0	0.00	787	1665
12	0.05	783	1660
25	0.10	757	1605
37	0.15	712	1510
50	0.20	654	1385
62	0.25	593	1255
75	0.30	531	1125
87	0.35	476	1010

### CEILING DIFFUSERS AIR RESISTANCE

Air Volume	RTD9-65S Step-Down Diffuser						FD9-65S Flush Diffuser	RTD11-95S Step-Down Diffuser						FD11-95S Flush Diffuser	
	2 Ends Open		1 Side & 2 Ends Open		All Ends & Sides Open			2 Ends Open		1 Side & 2 Ends Open		All Ends & Sides Open			
L/s	cfm	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.
378	800	37	0.15	32	0.13	27	0.11	27	0.11	---	---	---	---	---	---
472	1000	47	0.19	40	0.16	35	0.14	35	0.14	---	---	---	---	---	---
566	1200	62	0.25	50	0.20	42	0.17	42	0.17	---	---	---	---	---	---
661	1400	82	0.33	65	0.26	50	0.20	50	0.20	---	---	---	---	---	---
755	1600	107	0.43	80	0.32	50	0.20	60	0.24	---	---	---	---	---	---
849	1800	139	0.56	99	0.40	75	0.30	75	0.30	32	0.13	27	0.11	22	0.09
944	2000	182	0.73	124	0.50	90	0.36	90	0.36	37	0.15	32	0.13	27	0.11
1038	2200	236	0.95	157	0.63	109	0.44	109	0.44	45	0.18	37	0.15	30	0.12
1133	2400	---	---	---	---	---	---	---	---	52	0.21	45	0.18	37	0.15
1227	2600	---	---	---	---	---	---	---	---	60	0.24	52	0.21	45	0.18
1321	2800	---	---	---	---	---	---	---	---	67	0.27	60	0.24	52	0.21
1416	3000	---	---	---	---	---	---	---	---	80	0.32	72	0.29	62	0.25

### CEILING DIFFUSER AIR THROW DATA

Air Volume		¹ Effective Throw					
L/s	cfm	m	ft.	m	ft.		
Model No.		RTD9-65S				FD9-65S	
378	800	3 - 5	10 - 17	4 - 5	14 - 18		
472	1000	3 - 5	10 - 17	4 - 6	15 - 20		
566	1200	3 - 5	11 - 18	5 - 7	16 - 22		
661	1400	3 - 6	12 - 19	5 - 7	17 - 24		
755	1600	3 - 6	12 - 20	5 - 8	18 - 25		
849	1800	4 - 6	13 - 21	6 - 9	20 - 28		
944	2000	4 - 7	14 - 23	6 - 9	21 - 29		
1038	2200	5 - 8	16 - 25	7 - 9	22 - 30		
Model No.		RTD11-95S				FD11-95S	
1227	2600	7 - 9	24 - 29	6 - 7	19 - 24		
1321	2800	8 - 9	25 - 30	6 - 9	20 - 28		
1416	3000	8 - 10	27 - 33	6 - 9	21 - 29		

<sup>1</sup> Effective throw based on terminal velocities of 23 m (75 ft.) per minute.

## ELECTRICAL DATA

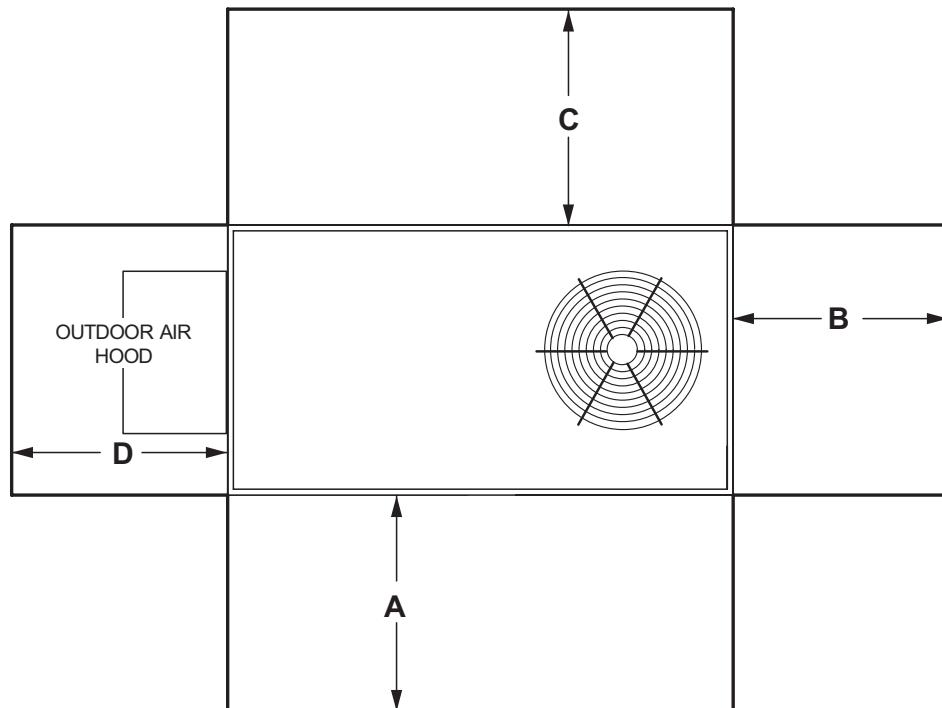
		LGH036S4	LGH048S4	LGH060S4	LGH072H4	LGH074H4
<sup>1</sup> Voltage - 50hz 3 Phase with neutral		380/420V	380/420V	380/420V	380/420V	380/420V
Compressor	Rated Load Amps	3.7	5.1	6.2	8	8.5
	Locked Rotor Amps	31	55	55	67.1	66.1
Outdoor Fan Motor	Full Load Amps	0.6	1.1	1.3	1.3	1.3
Power Exhaust (1) 0.25 kW (0.33 HP)	Full Load Amps	1.3	1.3	1.3	1.3	1.3
Indoor Blower Motor	kW	0.47	0.62	0.47	1.24	0.62
	Full Load Amps	1.4	1.9	1.4	2.6	1.9
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	15	15	15	15	15
	With (1) 0.25 kW (0.33 HP) Power Exhaust	15	15	15	15	20
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	7	8	9	11	11
	With (1) 0.25 kW (0.33 HP) Power Exhaust	8	9	11	12	13

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

<sup>2</sup> Heating/Air Conditioning/Refrigeration (HACR) type breaker or fuse.

<sup>3</sup> Refer to local codes to determine wire, fuse and disconnect size requirements.

## UNIT CLEARANCES



<sup>1</sup> Unit Clearance	A		B		C		D		Top Clearance
	mm	in.	mm	in.	mm	in.	mm	in.	
Service Clearance	1219	48	914	36	914	36	914	36	
Clearance to Combustibles	914	36	25	1	25	1	25	1	
Minimum Operation Clearance	914	36	914	36	914	36	914	36	Unobstructed

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.

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## WEIGHT DATA

Model Number	Outdoor Coil	Net		Shipping		Outdoor Coil	Net		Shipping	
		kg	lbs.	kg	lbs.		kg	lbs.	kg	lbs.
036 Base Unit	Eco-Last™	249	549	277	610	Fin/Tube	257	568	285	629
036 Max. Unit	Eco-Last™	337	743	365	804	Fin/Tube	346	762	373	823
048 Base Unit	Eco-Last™	256	565	284	626	Fin/Tube	271	598	299	659
048 Max. Unit	Eco-Last™	342	754	378	834	Fin/Tube	366	806	393	867
060 Base Unit	Eco-Last™	292	643	319	704	Fin/Tube	311	685	338	746
060 Max. Unit	Eco-Last™	395	871	423	932	Fin/Tube	414	913	442	974
072 Base Unit	Eco-Last™	327	720	354	781	Fin/Tube	346	762	373	823
072 Max. Unit	Eco-Last™	416	918	444	979	Fin/Tube	436	960	463	1021
074 Base Unit	Eco-Last™	327	720	354	781	Fin/Tube	346	762	373	823
074 Max. Unit	Eco-Last™	416	918	444	979	Fin/Tube	436	960	463	1021

## OUTDOOR SOUND DATA

Unit Model No.	Octave Band Sound Power Levels dBA, re 10 <sup>-12</sup> Watts Center Frequency - Hz							¹ Sound Rating Number (dBA)
	125	250	500	1000	2000	4000	8000	
036, 048	63	66	70	71	68	62	53	75
060, 072, 074	67	72	77	76	73	68	61	82

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

<sup>¹</sup> Sound Rating Number according to ARI Standard 270-95 (includes pure tone penalty). The Sound Rating Number is the overall A-Weighted Sound Power Level, (Lwa), dB (100 Hz to 10,000 Hz).

## OPTIONS / ACCESSORIES

	Model No	Shipping Weight		
		kg	lbs.	
<b>ECONOMIZER / OUTDOOR AIR / EXHAUST</b>				
<b>Economizer</b>				
Economizer, Includes Outdoor Air Hood and Barometric Relief Dampers with Hood		59	131	
<b>Outdoor Air Dampers</b>				
Motorized		18	40	
Manual		14	30	
<b>Power Exhaust</b>				
Standard Static		17	35	
<b>GAS HEAT</b>				
Medium Heat (adder over standard heat)		4	8	
High Heat (adder over standard heat)		9	19	
<b>ROOF CURBS</b>				
<b>Hybrid Roof Curbs, Downflow</b>				
203 mm height	C1CURB70A-1	23	50	
356 mm height	C1CURB71A-1	32	70	
457 mm height	C1CURB72A-1	36	80	
610 mm height	C1CURB73A-1	45	100	
<b>Adjustable Pitch Curb, Downflow</b>				
356 mm height		51	113	
<b>CEILING DIFFUSERS</b>				
Step-Down	RTD9-65S	36	80	
	RTD11-95S	54	118	
Flush	FD9-65S	36	80	
	FD11-95S	54	118	
Transitions	T1TRAN10AN1	10	22	
	T1TRAN20N-1	10	21	
<b>DEHUMIDIFICATION SYSTEM</b>				
Dehumidification	036-048	12	27	
	060-072	14	30	
<b>PACKAGING</b>				
LTL Packaging (less than truck load)	036-048	27	60	
	060-072	29	65	

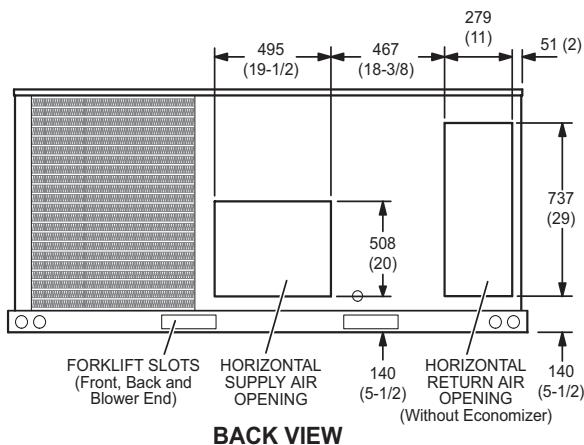
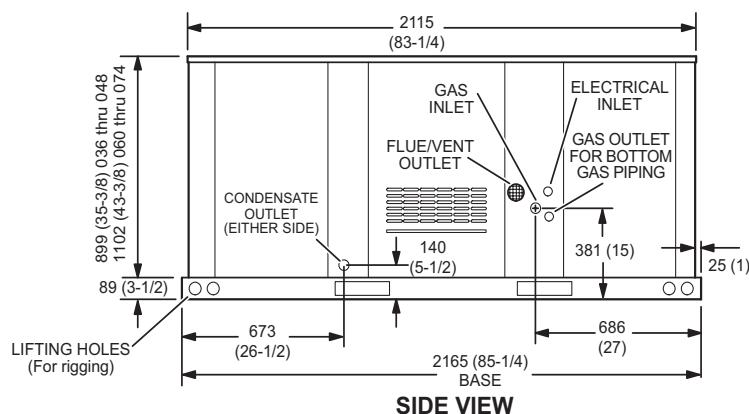
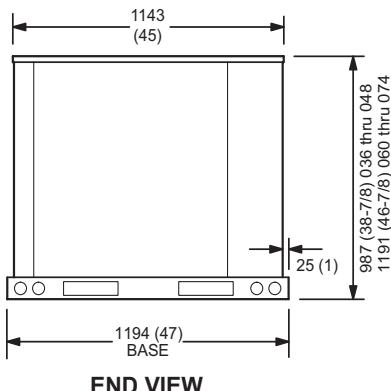
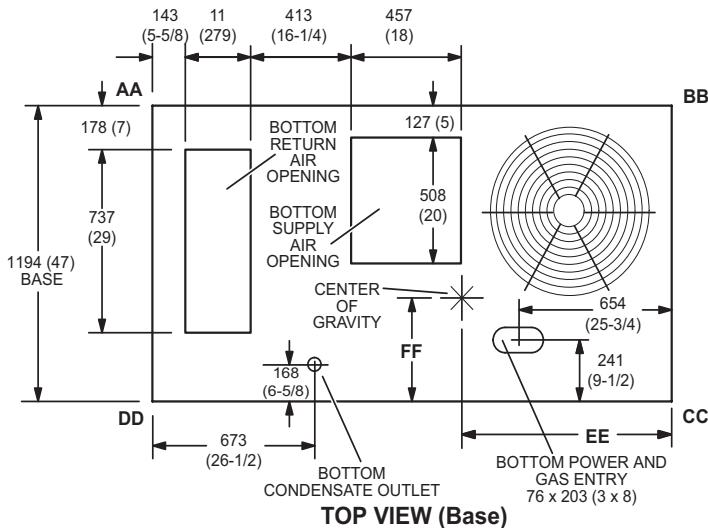
## DIMENSIONS - UNIT

### CORNER WEIGHTS

Model No.	AA		BB		CC		DD		CENTER OF GRAVITY			
	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	mm	in.	mm	in.
LGH036 Base Unit	45	98	54	119	87	192	72	158	978	38.5	457	18
LGH036 Max. Unit	62	137	70	155	113	250	100	221	1016	40	457	18
LGH048 Base Unit	47	104	57	126	92	202	76	167	978	38.5	457	18
LGH048 Max. Unit	66	145	74	164	120	264	106	233	1016	40	457	18
LGH060 Base Unit	54	118	65	144	105	232	87	191	978	38.5	457	18
LGH060 Max. Unit	75	164	84	186	136	299	120	264	1016	40	457	18
LGH072 Base Unit	60	132	73	160	117	258	96	212	978	38.5	457	18
LGH072 Max. Unit	78	173	89	195	143	314	126	278	1016	40	457	18
LGH074 Base Unit	60	132	73	160	117	258	96	212	978	38.5	457	18
LGH074 Max. Unit	78	173	89	195	143	314	126	278	1016	40	457	18

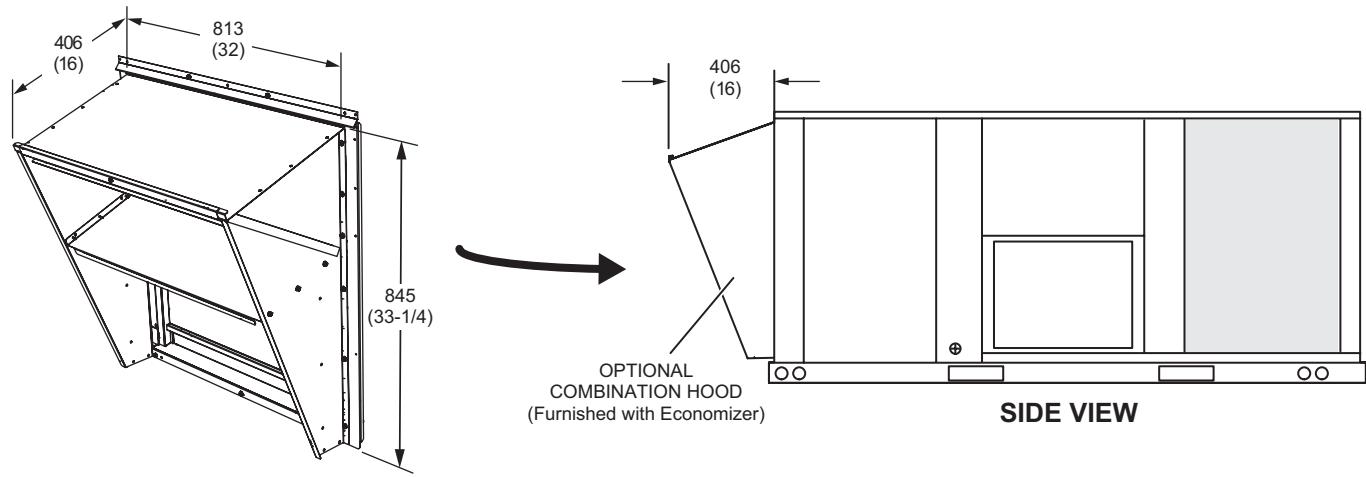
Base Unit - The unit with NO INTERNAL OPTIONS.

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



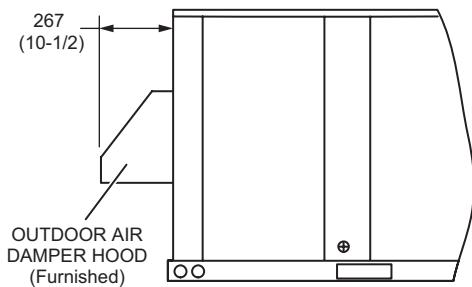
## DIMENSIONS - ACCESSORIES

### COMBINATION OUTDOOR AIR HOOD DETAIL FOR OPTIONAL ECONOMIZER AND BAROMETRIC RELIEF DAMPERS (Furnished With Economizer for Downflow Applications)

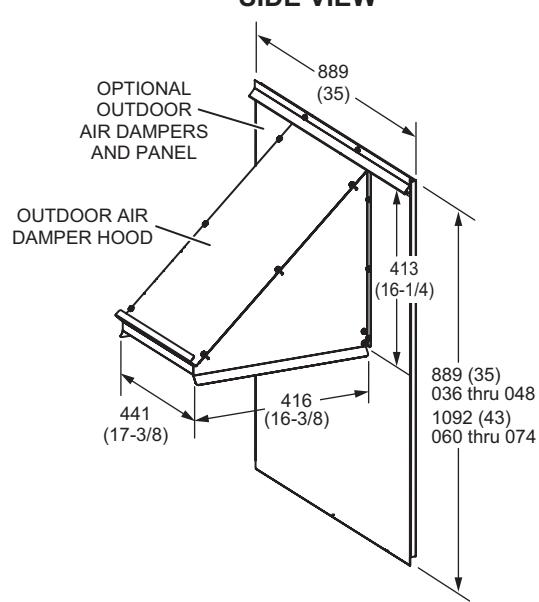
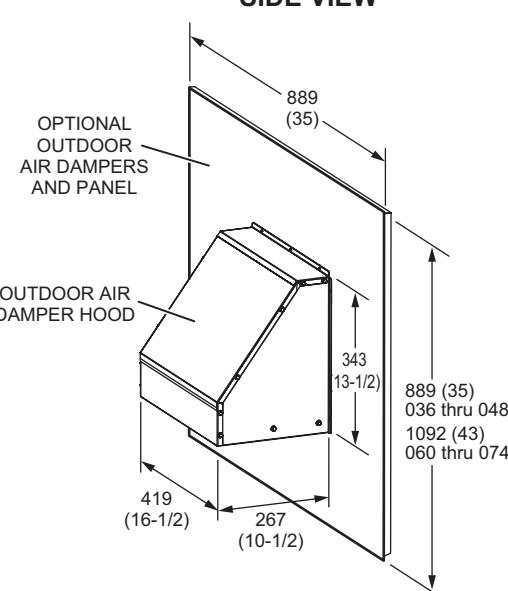
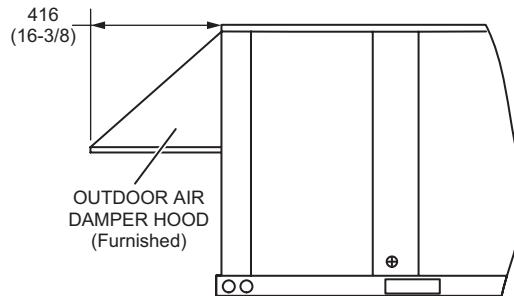


### OUTDOOR AIR DAMPER HOOD DETAIL (Downflow or Horizontal Applications)

MANUAL OUTDOOR AIR HOOD

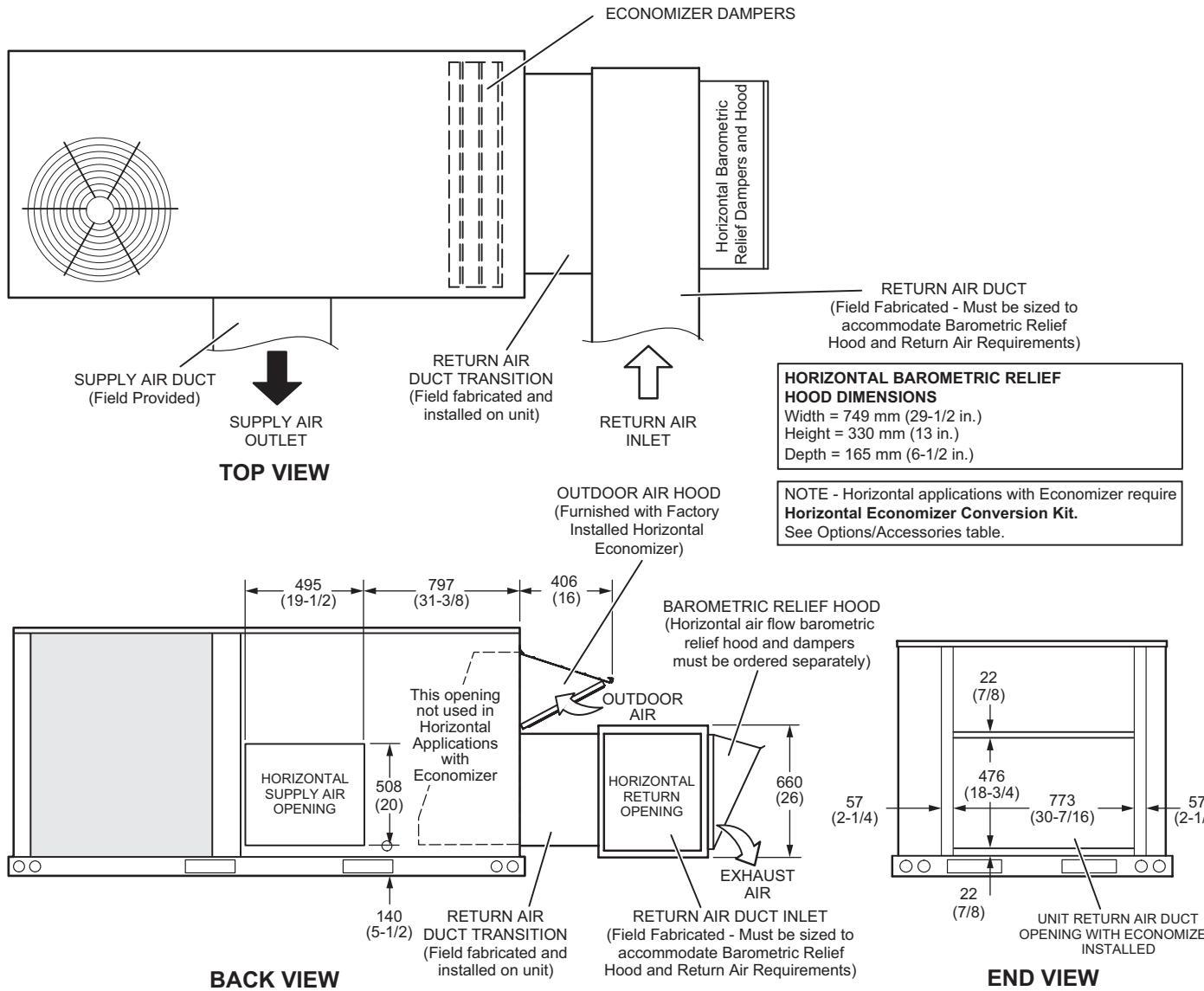


MOTORIZED OUTDOOR AIR HOOD



## DIMENSIONS - ACCESSORIES

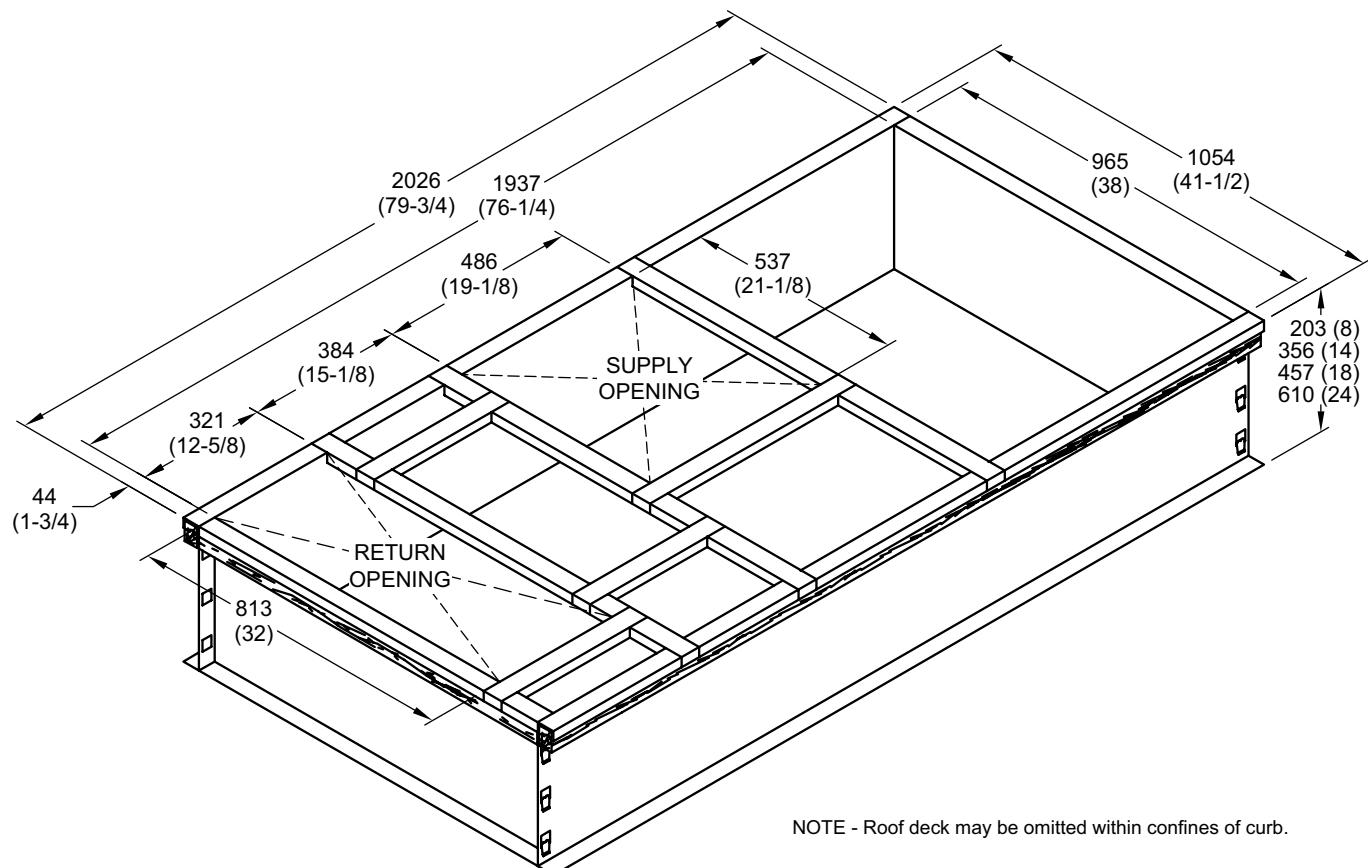
### OUTDOOR AIR HOOD DETAIL WITH OPTIONAL ECONOMIZER AND OPTIONAL BAROMETRIC RELIEF DAMPERS WITH HOOD (Horizontal Application)



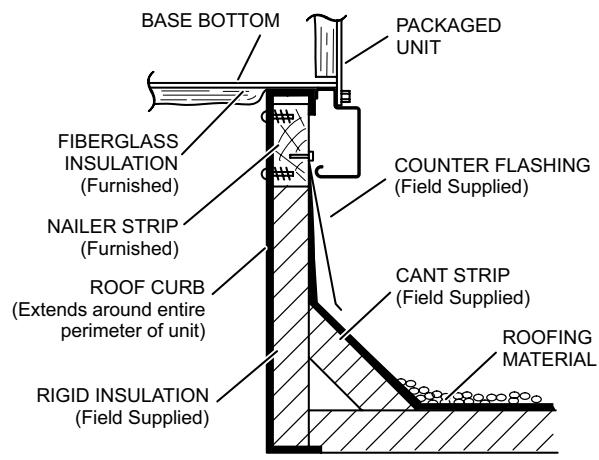
NOTE - Return Air Duct and Transition must be supported

## DIMENSIONS - ACCESSORIES

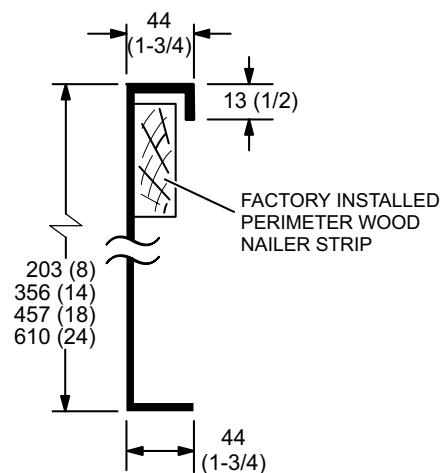
### HYBRID ROOF CURBS - DOUBLE DUCT OPENING



**TYPICAL FLASHING DETAIL FOR ROOF CURB**

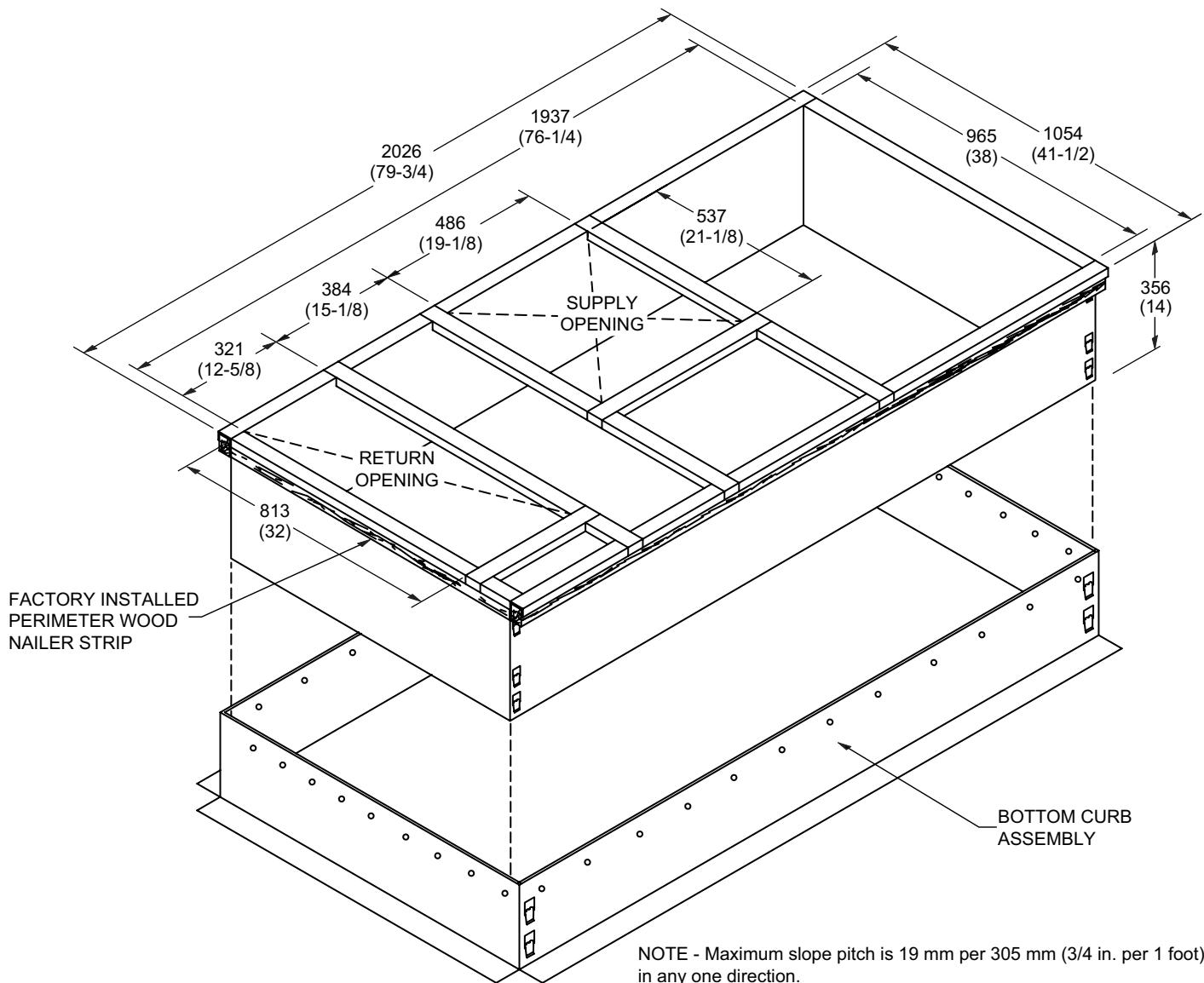


**DETAIL ROOF CURB**

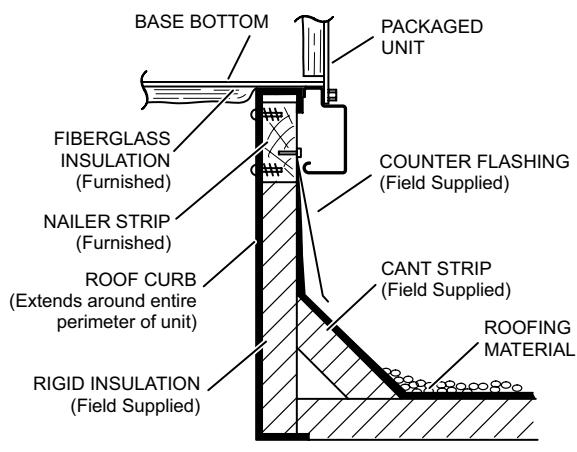


## DIMENSIONS - ACCESSORIES

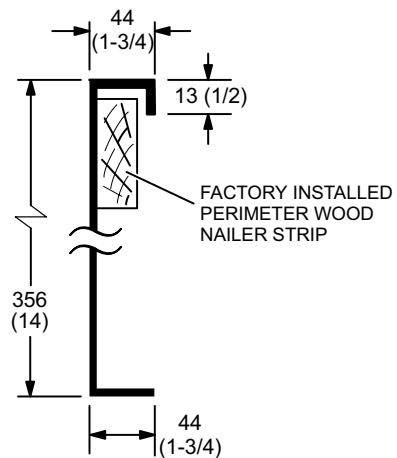
### ADJUSTABLE PITCH CURBS - DOUBLE DUCT OPENING



TYPICAL FLASHING DETAIL FOR ROOF CURB

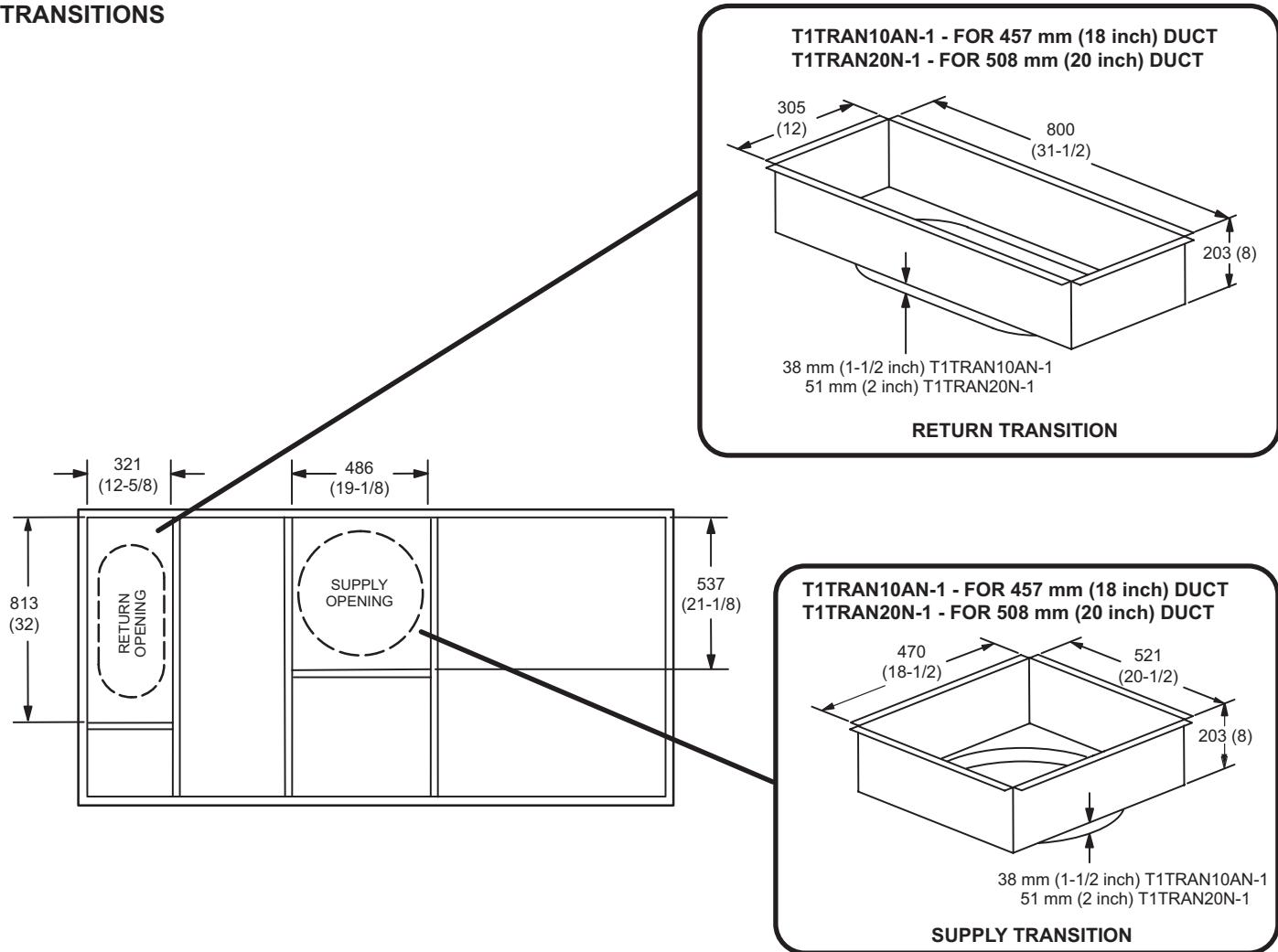


DETAIL ROOF CURB



## DIMENSIONS - ACCESSORIES

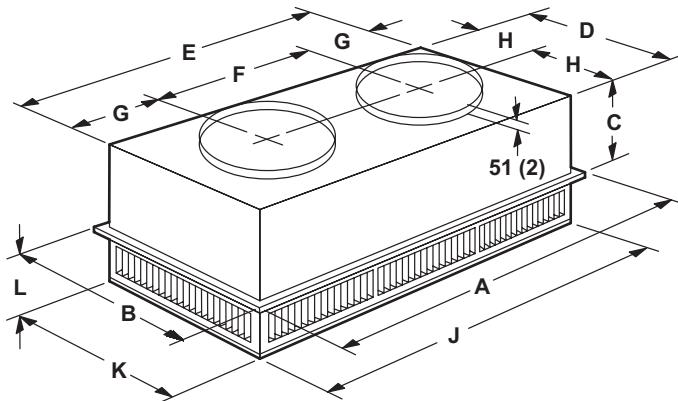
### TRANSITIONS



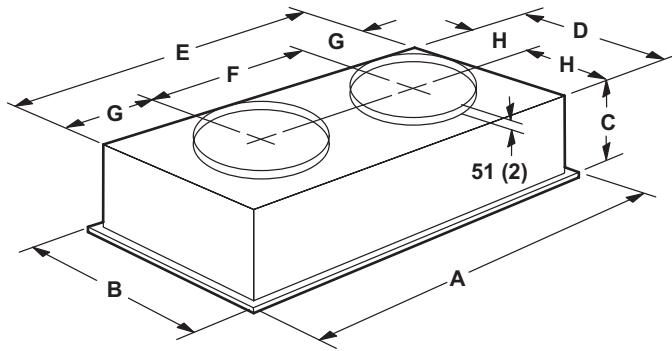
## DIMENSIONS - ACCESSORIES

### COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

#### STEP-DOWN CEILING DIFFUSER



#### FLUSH CEILING DIFFUSER



Model Number	RTD9-65S	RTD11-95S
<b>A</b>	mm 1159	1159
	in. 47-5/8	47-5/8
<b>B</b>	mm 600	752
	in. 23-5/8	29-5/8
<b>C</b>	mm 289	365
	in. 11-3/8	14-3/8
<b>D</b>	mm 546	699
	in. 21-1/2	27-1/2
<b>E</b>	mm 1156	1156
	in. 45-1/2	45-1/2
<b>F</b>	mm 572	572
	in. 22-1/2	22-1/2
<b>G</b>	mm 292	292
	in. 11-1/2	11-1/2
<b>H</b>	mm 273	349
	in. 10-3/4	13-3/4
<b>J</b>	mm 1156	1156
	in. 45-1/2	45-1/2
<b>K</b>	mm 546	699
	in. 21-1/2	27-1/2
<b>L</b>	mm 181	206
	in. 7-1/8	8-1/8
<b>Duct Size</b>	mm 457 round	508 round
	in. 18 round	20 round

Model Number	FD9-65S	FD11-95S
<b>A</b>	mm 1159	1159
	in. 47-5/8	47-5/8
<b>B</b>	mm 600	752
	in. 23-5/8	29-5/8
<b>C</b>	mm 343	422
	in. 13-1/2	16-5/8
<b>D</b>	mm 533	686
	in. 21	27
<b>E</b>	mm 1143	1143
	in. 45	45
<b>F</b>	mm 572	572
	in. 22-1/2	22-1/2
<b>G</b>	mm 286	286
	in. 11-1/4	11-1/4
<b>H</b>	mm 267	343
	in. 10-1/2	13-1/2
<b>Duct Size</b>	mm 457 round	508 round
	in. 18 round	20 round



## REVISIONS

Section	Description
Electrical / Electric Heat Data	Updated tables for 10.6, 14.1, and 17.6 kW standard efficiency units.



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Contact us at 1-800-448-5872

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Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury.  
Installation and service must be performed by a qualified installer and servicing agency.

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