

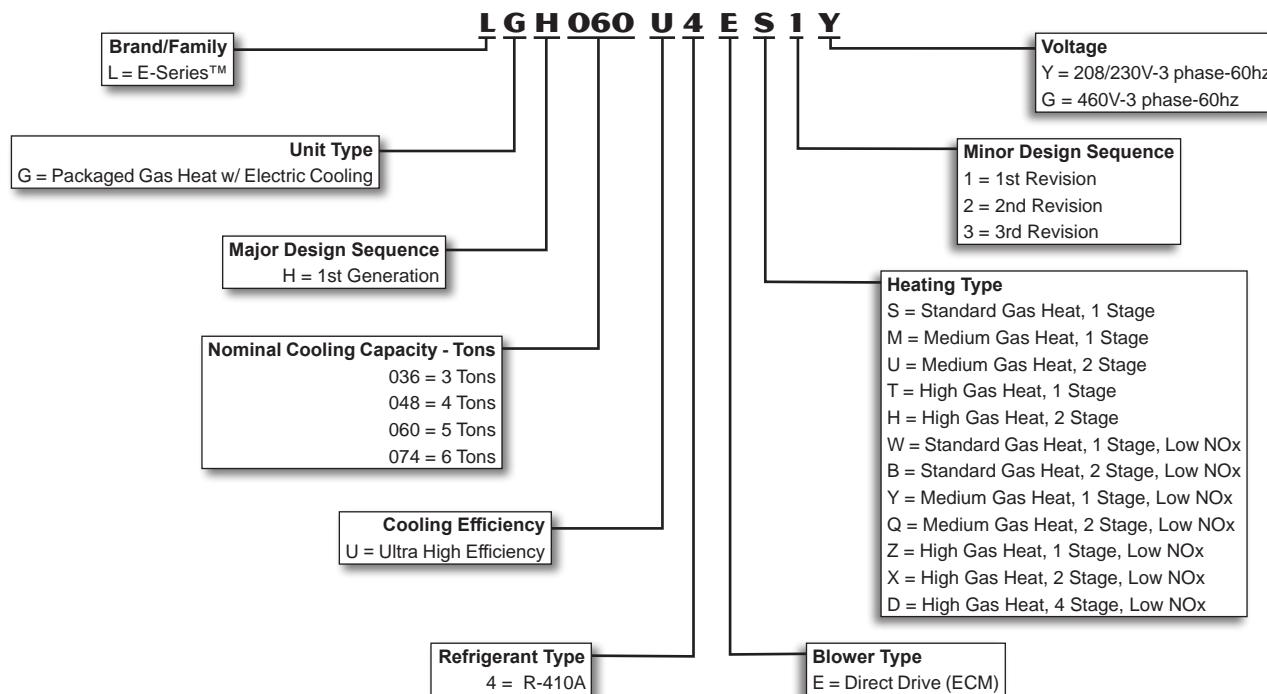
**ASHRAE 90.1
COMPLIANT**

ENERGY STAR

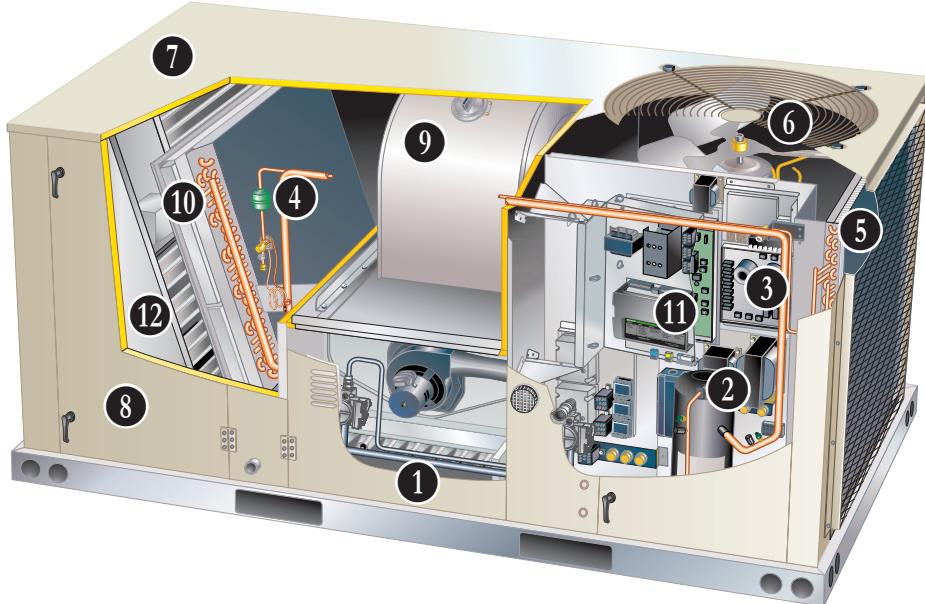
3 to 6 Tons

Net Cooling Capacity - 34,500 to 70,000 Btuh
 Gas Input Heat Capacity - 28,000 to 150,000 Btuh

MODEL NUMBER IDENTIFICATION



FEATURES AND BENEFITS



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

- ECM Blower And Condenser Fan Motors** - Direct drive units feature ECM blower and condenser fan motors to allow energy efficient Single Zone VAV Supply Fan operation during all operating conditions. Blower setpoints can be easily set in the field through the Intelli-Guide™ unit controller reducing setup time.
- Ultra-High Efficiency Cooling System With Variable Capacity Compressor and DC Inverter Control** - An integrated system that operates together to reduce overall energy usage when compared to conventional rooftop units.
- 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.
- MERV 13 Filters** - Available as factory or field option, provide an enhanced level of indoor air quality, and can help the building qualify for additional LEED credits.
- Foil-Faced Insulation** - Insulation on all internal surfaces that have contact with airflow helps minimize airborne fibers and improve 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 E-Series™ 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

CONTENTS

Blower Data . . . . .	.21
Dimensions - Accessories . . . . .	.32
Dimensions - Unit . . . . .	.31
Electrical Data . . . . .	.25
Features And Benefits	2
High Altitude Derate . . . . .	.16
Model Number Identification	1
Options / Accessories . . . . .	.12
Outdoor Sound Data . . . . .	.27
Intelli-Guide™ Control System	8
Ratings . . . . .	.17
Specifications . . . . .	.15
Specifications - Gas Heat . . . . .	.16
Unit Clearances . . . . .	.27
Weight Data . . . . .	.30

APPROVALS

AHRI Certified to AHRI Standard 210/240 (3 thru 5 ton models) and AHRI Standard 340/360 (6 ton models).

ETL and CSA listed.

Efficiency rating certified by CSA.

Components bonded for grounding to meet safety standards for servicing required by UL, ULC and National and Canadian Electrical Codes.

All models are ASHRAE 90.1 compliant.

ENERGY STAR® certified units are designed to use less energy, help save money on utility bills, and help protect the environment.

ISO 9001 Registered Manufacturing Quality System.

California Only

If installed in South Coast Air Quality Management District (SCAQMD) only:

This gas unit does not meet the SCAQMD Rule 1111 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the Clean Air Furnace Rebate Program: www.CleanAirFurnaceRebate.com.

If installed in San Joaquin Valley Air Pollution Control District (SJVAPCD) only:

This gas unit does not meet the SJVAPCD Rule 4905 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to \$450.

WARRANTY

Limited ten years aluminized heat exchanger, limited fifteen years optional stainless steel heat exchanger.

Limited five years on compressors.

Limited three years on Intelli-Guide™ unit controller.

Limited five years optional high performance economizers.

Limited one year all other covered components.

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 45°F.

Furnished as Standard when Four-Stage Heat is Ordered.

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.

Low NOx Models

All models are available in low NOx versions (40 ng/J).

FEATURES AND BENEFITS

HEATING SYSTEM (continued)

Required Selections

Gas Input Choice - Order one:

- Standard Gas Heat (1 Stage) 65,000 Btuh
- Standard Gas Heat (2 Stage) 70,000/53,000 Btuh
- Medium Gas Heat (1 Stage) 108,000 Btuh
- Medium Gas Heat (2 Stage) 81,000/108,000 Btuh
- High Gas Heat (1 Stage) 150,000 Btuh
- High Gas Heat (2 Stage) 113,000/150,000 Btuh
- High Gas Heat (4 Stage) 28,000/81,000/113,000/ 150,000 Btuh

Standard or Low NOx

Specify standard gas heat or low NOx (40 ng/J) option.

NOTE - Standard Gas Heat (2 Stage) and High Gas Heat (4 Stage) is only available with low NOx models.

Options/Accessories

Factory Installed

Stainless Steel Heat Exchanger

Required if mixed air temperature is below 45 °F.

Furnished as Standard when Four-Stage Heat is Ordered.

Factory or Field Installed

Low Temperature Vestibule Heater

Extends gas heat operation from -40°F (standard) down to -60°F. Electric heater automatically controls minimum temperature in gas burner compartment when temperature falls below -40°F.

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 (3 in. 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 0°F to 125°F without any additional controls.

R-410A Refrigerant

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

2 Variable Capacity Scroll Compressor

Operates on a variable frequency determined by the DC Inverter Control to vary capacity based on the cooling load required.

Features high efficiency with uniform suction flow, constant discharge flow, high volumetric efficiency and quiet operation.

Consists of two involute spiral scrolls matched together to generate a series of crescent shaped gas pockets between them.

During compression, one scroll remains stationary while the other scroll orbits around it.

Gas is drawn into the outer pocket, the pocket is sealed as the scroll rotates.

As the spiral movement continues, gas pockets are pushed to the center of the scrolls. Volume between the pockets is simultaneously reduced. When the pocket reaches the center, gas is now at high pressure and is forced out of a port located in the center of the fixed scrolls.

During compression, several pockets are compressed simultaneously resulting in a smooth continuous compression cycle. Continuous flank contact, maintained by centrifugal force, minimizes gas leakage and maximizes efficiency.

Compressor is tolerant to the effects of slugging and contaminants. If this occurs, scrolls separate, allowing liquid or contaminants to be worked toward the center and discharged.

Top Cap Thermal Sensor Switch

Located on top of the compressor casing.

Discontinues compressor operation in case of abnormal operating conditions.

Crankcase Heater

Crankcase heater prevents migration of liquid refrigerant into compressor and ensures proper compressor lubrication.

FEATURES AND BENEFITS

COOLING SYSTEM (continued)

3 DC Inverter Control

Converts AC line voltage into filtered variable DC voltage. Provides continuous compressor operation, while adjusting the capacity according to indoor temperature. Adjusts compressor output in increments as small as 1%. The accurate sensing of cooling load prevents frequent changes in capacity and ensures efficient, economical operation. Power Factor Correction (PFC) circuit monitors the DC bus for high, low and abnormal voltage conditions to protect the compressor. Two LEDS (red and green) indicate inverter operating status and aid in troubleshooting. Noise filter reduces unwanted electromagnetic interference (EMI). The inverter reactor adds inductance to the line between the inverter and the compressor to limit current rise and protect the compressor.

4 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.

5 Condenser Coil

Copper tube construction, enhanced rippled-edge aluminum fins, flared shoulder tubing connections, silver soldered construction.

Evaporator Coil

Copper tube construction, enhanced rippled-edge aluminum fins, flared shoulder tubing connections, silver soldered construction for improved heat transfer.

Cross row circuiting with rifled copper tubing optimizes both sensible and latent cooling capacity.

Condensate Drain Pan

Plastic pan, sloped to meet drainage requirements per ASHRAE 62.1.

Side or bottom drain connections. Reversible to allow connection at back of unit.

6 Variable-Speed ECM Outdoor Coil Fan Motors

Fan speed is directly controlled by the Intelli-Guide™ unit controller.

Thermal overload protected, totally enclosed, permanently lubricated ball bearings, shaft up, wire basket mount.

Outdoor Coil Fan

PVC coated fan guard furnished.

Required Selections

Cooling Capacity

Specify nominal cooling capacity of the unit.

Options/Accessories

Factory Installed

Service Valves

Fully serviceable brass valves installed in discharge & liquid lines.

Factory or Field Installed

Condensate Drain Trap

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

Available in copper or PVC.

Drain Pan Overflow Switch

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

FEATURES AND BENEFITS

CABINET

7 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.

8 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 all 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
- 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.

BLOWER

Direct Drive ECM Motor

High-efficiency, variable-speed ECM (electronically commutated) motor.

Maintains the ability to ramp the blower up or down to meet comfort needs.

The amount of airflow for each stage can be set according to a parameter in the Intelli-Guide™ unit controller. Unit is shipped from the factory with preset airflow.

Airflow Management

Allows the installer to directly enter the design-specified supply air (blower) parameters without the need to manually take measurements and adjust settings. Also monitors supply air volume as well as customizable diagnostics.

9 Supply Air Blower

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

Ordering Information

Specify motor output when base unit is ordered.

FEATURES AND BENEFITS

ELECTRICAL

WireRight™ 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.

Required Selections

Voltage Choice

Specify when ordering base unit.

Options/Accessories

Factory Installed

Circuit Breakers

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

Short-Circuit Current Rating (SCCR)

Higher short circuit protection up to 100kA.

Factory or Field Installed

Disconnect Switch

Accessible from outside of unit, spring loaded weatherproof cover furnished.

GFI Service Outlets (2)

115V ground fault circuit interrupter (GFCI) type, non-powered, field-wired.

INDOOR AIR QUALITY

10 Air Filters

Disposable 2 inch filters furnished as standard.

Options/Accessories

Factory or Field Installed

High Efficiency Air Filters

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

Indoor Air Quality (CO₂) Sensors

Monitors CO₂ levels, reports to the Intelli-Guide™ unit controller, which adjusts economizer dampers as needed.

Field Installed

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.

INTELLI-GUIDE™ CONTROL SYSTEM

11 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 heat/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 dehumidification option.

Thermostat Bounce Delay

Warm Up Mode Delay

LED Indicators

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

Room Sensor Operation - Controls temperature.

Options/Accessories

Factory or Field Installed

Dirty Filter Switch

Senses static pressure increase indicating dirty filter condition.

Control 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.

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.

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

OPTIONS / ACCESSORIES

INTELLI-GUIDE UNIT

CONTROLLER (continued)

Controls Options (continued)

Commercial Control Systems

Aftermarket DDC

Novar® Unit Controller and options.

Thermostats

Control system and thermostat options. Aftermarket unit controller options.

Field Installed

General Purpose Control Kit

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

Humidity Sensor Kit

Humidity sensor required when Increased Dehumidification is enabled.

12 ECONOMIZER

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

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

All E-Series™ rooftop units are equipped with factory installed CEC Title 24 approved sensors for outside, return and discharge air temperature monitoring.

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

Approved for California Title 24 building standards.

Low leakage dampers are Air Movement and Control Association International (AMCA) Class 1A Certified - Maximum 3 CFM per sq. ft. leakage at 1 in. w.g.

ASHRAE 90.1 compliant.

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 factory installed Power Exhaust Fan option. See Power Exhaust Fan section and Options/Accessories table.

Demand Control Ventilation (DCV) ready using optional CO₂ 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.

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

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

Refer to Installation Instructions for complete setup information.

OPTIONS / ACCESSORIES

ECONOMIZER (continued)

Differential Sensible Control

Factory setting. Uses outdoor air and return air sensors that are furnished with the unit. The Intelli-Guide™ unit controller compares outdoor air 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.

NOTE - Global control with enthalpy is not approved for Title 24 applications.

Factory or Field Installed

Single Enthalpy Temperature Control (Not for Title 24)

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

Differential Enthalpy Control (Not for Title 24)

Order two Single Enthalpy Controls. One is field installed in the return air section, 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

Outdoor Air CFM Control

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

NOTE - Not available with Demand Control Ventilation (CO₂ Sensor) or Building Pressure Control.

Building Pressure Control

Maintains constant building pressure level.

Using information from a differential pressure between the outdoor air and the building air, the Intelli-Guide™ unit controller changes the economizer position to help maintain a constant building pressure.

NOTE - Not available with Demand Control Ventilation (CO₂ Sensor) or Outdoor Air CFM Control.

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 16 in. diameter with 4 fan blades and a 1/3 hp 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: 100°F.

Outdoor Air Hood is furnished.

OPTIONS / ACCESSORIES

ROOF CURBS

Field Installed

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 8, 14, 18, and 24 inch 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 3/4 in. per foot 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 14 inch 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

Field Installed

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

Item	Model Number	Catalog Number	Unit Model No			
			036	048	060	074
COOLING SYSTEM						
Condensate Drain Trap	PVC - C1TRAP20AD2	76W26	OX	OX	OX	OX
	Copper - C1TRAP10AD2	76W27	OX	OX	OX	OX
Drain Pan Overflow Switch	E1NSR71AD1	68W88	OX	OX	OX	OX
Service valves		Factory	O	O	O	O
HEATING SYSTEM						
Bottom Gas Piping Kit	T1GPKT01AN1	19W50	OX	OX	OX	OX
Combustion Air Intake Extensions	T1EXTN10AN1	19W51	X	X	X	X
Gas Heat Input	Standard One-Stage - 65 kBtuh input	Factory	O	O	O	O
	Standard Two-Stage - 53/70 kBtuh input	Factory	^O	^O	^O	^O
	Medium One-Stage - 108 kBtuh input	Factory	O	O	O	O
	Medium Two-Stage - 81/108 kBtuh input	Factory	O	O	O	O
	High One-Stage - 150 kBtuh input	Factory	O	O	O	O
	High Two-Stage - 113/150 kBtuh input	Factory	O	O	O	O
	High Four-Stage - 28/81/113/150 kBtuh input	Factory	O	O	O	O
Low Temperature Vestibule Heater	208/230V-1 or 3ph - E1LTVH10A-1Y	54W23	OX	OX	OX	OX
	460V-3ph - E1LTVH10A-1G	54W24	OX	OX	OX	OX
LPG/Propane Conversion Kits	For One-Stage models - C1PROP10AP2	11U62	X	X	X	X
	For Two-Stage Standard models - C1PROP28A11	21A01	X	X	X	X
	For Two-Stage Medium and High models - C1PROP20AP2	11U63	X	X	X	X
	For Four-Stage High models - C1PROP30A11	21A02	X	X	X	X
Stainless Steel Heat Exchanger (Furnished as Standard when Four-Stage Heat is Ordered)	Factory	O	O	O	O	O
Vertical Vent Extension	C1EXTN20FF1	31W62	X	X	X	X
BLOWER - SUPPLY AIR						
Motors	Direct Drive - 0.50 hp	Factory	O			
	Direct Drive - 0.75 hp	Factory	O			
	Direct Drive - 1 hp	Factory		O	O	O
CABINET						
Combination Coil/Hail Guards	C1GARD51AT1	13T03	X	X	X	X
Corrosion Protection (indoor coil / outdoor coil)	Factory	O	O	O	O	O
CONTROLS						
Commercial Controls	CPC Einstein Integration	Factory	O	O	O	O
Intelli-Guide™ Control System - BACnet® Module - C0CTRL60AE1L	59W51	OX	OX	OX	OX	
Intelli-Guide™ Control System - LonTalk® Module - C0CTRL65FF1	54W27	OX	OX	OX	OX	
Novar® LSE	Factory	O	O	O	O	O
L Connection® Building Automation System	- - -	X	X	X	X	X
Dirty Filter Switch	E1NSR55AP1	53W66	OX	OX	OX	OX
General Purpose Control Kit	E1GPBK30C1	13J78	X	X	X	X
Fresh Air Tempering	C1NSR75AD1	58W63	OX	OX	OX	OX
Smoke Detector - Supply or Return (Power board and one sensor)	C1NSR44AP1	53W78	OX	OX	OX	OX
Smoke Detector - Supply and Return (Power board and two sensors)	C1NSR43AP1	53W79	OX	OX	OX	OX

¹ Standard Two-Stage Heat and High Four-Stage Heat is only available with Low NOx Models.

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 Model No			
			036	048	060	074
ELECTRICAL						
Voltage 60 hz		208/230V - 3 phase	Factory	O	O	O
		460V - 3 phase	Factory	O	O	O
HACR Circuit Breakers			Factory	O	O	O
Short-Circuit Current Rating (SCCR) of 100kA			Factory	O	O	O
Disconnect Switch	80 amp - T2DISC080NH1	20W24	OX	OX	OX	OX
GFI Service Outlets	15 amp non-powered, field-wired - LTAGFIK10/15	74M70	OX	OX	OX	OX
Weatherproof Cover for GFI	C1GFCI99FF1	10C89	X	X	X	X
ECONOMIZER						
High Performance Economizer With Outdoor Air Hood (Sensible Control) (Approved for California Title 24 Building Standards / AMCA Class 1A Certified)						
High Performance Economizer - Includes Barometric Relief Dampers with Exhaust Hood	E1ECON17A-1	10U54	OX	OX	OX	OX
High Performance Economizer - No Exhaust Option	Factory	O	O	O	O	O
Economizer Accessories						
Horizontal Economizer Conversion Kit	T1HECK00AN1	17W45	X	X	X	X
Economizer Controls (Not for Title 24)						
Differential Enthalpy	Order 2 - C1SNSR64FF1	53W64	OX	OX	OX	OX
Sensible Control	Sensor is Furnished	Factory	O	O	O	O
Single Enthalpy	C1SNSR64FF1	53W64	OX	OX	OX	OX
Global Control	Sensor Field Provided	Factory	O	O	O	O
Building Pressure Control	E1GPBK10C1	13J77	X	X	X	X
Outdoor Air CFM Control	E1GPBK20C1	13J76	X	X	X	X
POWER EXHAUST FAN						
Standard Static	208/230V-3ph - C1PWRE10A-1P	79W87	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>		460V-3ph - C1PWRE10A-1G	79W88	OX	OX	OX
BAROMETRIC RELIEF						
¹ Barometric Relief Dampers for Power Exhaust Kit	C1DAMP50A-3-	19D42	X	X	X	X
² Horizontal Barometric Relief Dampers With Exhaust Hood	LAGEDH03/15-2	19F01	X	X	X	X
OUTDOOR AIR						
Outdoor Air Dampers With Outdoor Air Hood						
Motorized	C1DAMP21A-1	15D17	OX	OX	OX	OX
Manual	C1DAMP11A-2	15D18	OX	OX	OX	OX

¹ Required when Economizer is factory installed with factory installed Power Exhaust Fan option.

² 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 Field Installed

O = Configure To Order (Factory Installed)

X = Field Installed

OPTIONS / ACCESSORIES

Item	Model Number	Catalog Number	Unit Model No					
			036	048	060	074		
INDOOR AIR QUALITY								
Air Filters								
High Efficiency Air Filters	MERV 8 (20 x 20 x 2 in.) - C1FLTR15D-1-	54W21	OX	OX	OX	OX		
Order 4 per unit	MERV 13 (20 x 20 x 2 in.) - C1FLTR40D-1-	52W39	OX	OX	OX	OX		
Replaceable Media Filter With Metal Mesh Frame (includes non-pleated filter media)	20 x 20 x 2 in. (Order 4) - K1FLTR30A-2	44N60	X	X	X	X		
Indoor Air Quality (CO₂) Sensors								
Sensor - Wall-mount, off-white plastic cover with LCD display	C0SNSR50AE1L	77N39	X	X	X	X		
Sensor - Wall-mount, off-white plastic cover, no display	C0SNSR52AE1L	87N53	X	X	X	X		
Sensor - Black plastic case with LCD display, rated for plenum mounting	C0SNSR51AE1L	87N52	X	X	X	X		
Sensor - Wall-mount, black plastic case, no display, rated for plenum mounting	COMISC19AE1	87N54	X	X	X	X		
CO ₂ Sensor Duct Mounting Kit - for downflow applications	COMISC19AE1-	85L43	X	X	X	X		
Aspiration Box - for duct mounting non-plenum rated CO ₂ sensors (87N53 or 77N39)	COMISC16AE1-	90N43	X	X	X	X		
UVC Germicidal Lamps								
¹ UVC Light Kit (208/230v-1ph)	C1UVCL10AN1-	50W90	X	X	X	X		
ROOF CURBS								
Hybrid Roof Curbs, Downflow								
8 in. height	C1CURB70A-1	11F50	X	X	X	X		
14 in. height	C1CURB71A-1	11F51	X	X	X	X		
18 in. height	C1CURB72A-1	11F52	X	X	X	X		
24 in. height	C1CURB73A-1	11F53	X	X	X	X		
Adjustable Pitched Curb								
14 in. height	C1CURB55AT1	43W27	X	X	X	X		
CEILING DIFFUSERS								
Step-Down - Order one	RTD11-95S	13K61	X	X	X	X		
Flush - Order one	FD11-95S	13K56	X	X	X	X		
Transitions (Supply and Return) - Order one	T1TRAN20N-1	17W54	X	X	X	X		

¹ Lamps operate on 110-230V single-phase power supply. Step-down transformer may be ordered separately for 460V and 575V units. Alternately, 110V power supply may be used to directly power the UVC ballast(s).

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

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

O = Configure To Order (Factory Installed)

X = Field Installed

SPECIFICATIONS

General Data	Nominal Tonnage	3 Ton	4 Ton	5 Ton	6 Ton
	Model Number	LGH036U4E	LGH048U4E	LGH060U4E	LGH074U4E
	Efficiency Type	Ultra	Ultra	Ultra	Ultra
	Blower Type	Single Zone VAV Supply Fan Direct Drive	Single Zone VAV Supply Fan Direct Drive	Single Zone VAV Supply Fan Direct Drive	Single Zone VAV Supply Fan Direct Drive
Cooling Performance	Gross Cooling Capacity - Btuh	35,300	48,500	59,500	72,000
	¹ Net Cooling Capacity - Btuh	34,500	47,000	58,000	70,000
	AHRI Rated Air Flow - cfm	1200	1550	1800	2050
	Total Unit Power - kW	2.3	3.4	4.5	5.8
	SEER (Btuh/Watt) - 208/230V-3ph	¹ 23.5	¹ 21.0	¹ 20.0	---
	SEER (Btuh/Watt) - 460V-3ph	¹ 22.5	¹ 20.2	¹ 19.5	---
	EER (Btuh/Watt) - 208/230V-3ph	¹ 15.0	¹ 14.0	¹ 13.0	² 12.0
	EER (Btuh/Watt) - 460V-3ph	¹ 14.5	¹ 13.7	¹ 12.5	² 12.0
	IEER (Btuh/Watt) - 208/230V-3ph-3ph	---	---	---	² 22.0
	IEER (Btuh/Watt) - 460V-3ph	---	---	---	² 22.0
Refrigerant Charge	Refrigerant Type	R-410A	R-410A	R-410A	R-410A
		17 lbs. 0 oz.	17 lbs. 0 oz.	16 lbs. 11 oz.	16 lbs. 11 oz.
Gas Heating Options Available - See page 16		Standard (1 or 2 stage), Medium (1 or 2 stage), High (1, 2 or 4 Stage)	Standard (1 or 2 stage), Medium (1 or 2 stage), High (1, 2 or 4 Stage)		
Compressor Type (number)		Variable Capacity Scroll (1)	Variable Capacity Scroll (1)	Variable Capacity Scroll (1)	Variable Capacity Scroll (1)
Outdoor Coil	Net face area (total) - sq. ft.	19.3	19.3	19.3	19.3
	Tube diameter - in.	3/8	3/8	3/8	3/8
	Number of rows	2	2	2	2
	Fins per inch	20	20	20	20
Outdoor Coil Fan	Motor - (No.) horsepower	(1) 1/3 (ECM)	(1) 1/3 (ECM)	(1) 1/3 (ECM)	(1) 1/3 (ECM)
	Motor rpm	550 - 850	600 - 900	700 - 950	700 - 1050
	Total Motor Input - watts	50 - 200	80 - 236	120 - 272	120 - 360
	Diameter - (No.) in.	(1) 24	(1) 24	(1) 24	(1) 24
	Number of blades	3	3	3	3
	Total air volume - cfm	2500 - 3850	2750 - 4100	3200 - 4300	3200 - 4700
Indoor Coil	Net face area (total) - sq. ft.	9.72	9.72	9.72	9.72
	Tube diameter - in.	3/8	3/8	3/8	3/8
	Number of rows	3	3	4	4
	Fins per inch	14	14	14	14
Drain connection (Number) and size - in.					
Expansion device type					
² Indoor Blower	Nominal motor HP	0.50 (ECM)	0.75 (ECM)	1 (ECM)	1 (ECM)
	Blower wheel nominal diameter x width - in.	(1) 10 x 10	(1) 10 x 10	(1) 11 x 10	(1) 11 x 10
Filters	Type of filter	Disposable			
	Number and size - in.	(4) 20 x 20 x 2	(4) 20 x 20 x 2	(4) 20 x 20 x 2	(4) 20 x 20 x 2
Electrical characteristics		208/230V or 460V - 3 phase			

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

^{1,2} AHRI Certified to AHRI Standard ¹ 210/240 or ² 340/360: 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

² Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor output required. Maximum usable output of motors furnished are shown. In Canada, nominal motor output is also maximum usable motor output. If motors of comparable output are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

SPECIFICATIONS - GAS HEAT

Model No.	036 048 060 074	036 048 060 074	036 048 060 074	036 048 060 074	048 060 074	048 060 074	048 060 074	
Heat Input Type	Standard (1 Stage)	¹ Standard (2 Stage) Low NOx Only	Medium (1 Stage)	Medium (2 Stage)	High (1 Stage)	High (2 Stage)	^{1, 2} High (4 Stage) Low NOx Only	
Input Btuh	1st Stage	65,000	53,000	108,000	81,000	150,000	113,000	28,000
	2nd Stage	---	70,000	---	108,000	---	150,000	81,000
	3rd Stage	---	---	---	---	---	---	113,000
	4th Stage	---	---	---	---	---	---	150,000
Output Btuh Standard Models	1st Stage	52,000	---	86,000	65,000	120,000	90,000	---
	2nd Stage	---	---	---	86,000	---	120,000	---
	3rd Stage	---	---	---	---	---	---	---
	4th Stage	---	---	---	---	---	---	---
Output Btuh Low NOx Models	1st Stage	---	43,000	87,000	66,000	121,000	92,000	22,000
	2nd Stage	---	57,000	---	87,000	---	121,000	66,000
	3rd Stage	---	---	---	---	---	---	92,000
	4th Stage	---	---	---	---	---	---	121,000
Temp. Rise Range- °F	1st stage	15-45	5-35	30-70	25-55	45-75	30-60	5-35
	2nd Stage	---	15-45	---	30-70	---	45-75	35-65
	3rd Stage	---	---	---	---	---	---	35-65
	4th Stage	---	---	---	---	---	---	45-75
³ Thermal Efficiency - Standard	80%	---	80%	80%	80%	80%	80%	---
³ Thermal Efficiency - Low NOx Gas Heat	81%	81%	81%	81%	81%	81%	81%	81%
Gas Supply Connections	1/2 in. NPT							
Rec. Gas Supply Pressure - Nat./ LPG	7 in.w.g. / 11 in.w.g.							

¹ Two-Stage Standard Heat and Four-Stage High Heat is only available with Low NOx Models.

² Stainless Steel Heat Exchanger is furnished as Standard when Four-Stage Heat is Ordered.

³ Thermal Efficiency at full input.

HIGH ALTITUDE DERATE

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

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

Heat Input Type	Altitude Feet	Gas Manifold Pressure in. w.g.		Input Rate (Btuh)
		Natural Gas	LPG/ Propane	
Standard (1 stage)	2001 - 4500	3.0	9.0	60,000
Standard (2 stage)	2001 - 4500	3.0/1.7	9.0/5.1	65,000 / 49,000
Medium (1 stage)	2001 - 4500	3.0	9.0	100,000
Medium (2 stage)	2001 - 4500	3.0/1.7	9.0/5.1	100,000 / 75,000
High (1 stage)	2001 - 4500	3.0	9.0	139,000
High (2 stage)	2001 - 4500	3.0/1.7	9.0/5.1	139,000 / 104,000
High (4 stage)	2001 - 4500	3.0/1.7	9.0/5.1	139,000 / 104,000 / 75,000 / 26,000

RATINGS

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

3 TON - LGH036U4

Entering Wet Bulb Tempera- ture	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																		
		65°F						75°F						85°F						
		Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			
					Dry Bulb						Dry Bulb						Dry Bulb			
cfm	kBtuh	kW	°F	75°F	80°F	85°F	kBtuh	kW	°F	75°F	80°F	85°F	kBtuh	kW	°F	75°F	80°F	85°F		
63°F	550	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	700	33.5	1.26	45.1	0.68	0.79	0.89	32.4	1.52	45.7	0.69	0.80	0.91	31.1	1.79	46.5	0.70	0.81	0.93	
	850	35.5	1.22	47.9	0.71	0.83	0.95	34.3	1.48	48.4	0.72	0.85	0.97	32.8	1.76	49.3	0.73	0.86	0.99	
	1000	37.1	1.19	50.0	0.74	0.88	1.00	35.7	1.46	50.9	0.75	0.89	1.00	34.2	1.74	51.7	0.77	0.91	1.00	
	1200	38.7	1.16	52.9	0.78	0.94	1.00	37.2	1.44	53.6	0.80	0.96	1.00	35.7	1.71	54.4	0.81	0.98	1.00	
	1400	40.0	1.14	55.2	0.82	0.99	1.00	38.5	1.41	55.9	0.84	1.00	1.00	37.1	1.69	56.6	0.86	1.00	1.00	
67°F	550	32.7	1.27	45.5	0.54	0.63	0.71	31.7	1.53	46.4	0.54	0.63	0.72	30.5	1.80	47.3	0.54	0.64	0.73	
	700	35.5	1.22	49.3	0.55	0.65	0.76	34.3	1.49	49.9	0.56	0.66	0.77	33.0	1.76	50.8	0.56	0.67	0.78	
	850	37.7	1.19	51.9	0.57	0.68	0.80	36.3	1.46	52.7	0.57	0.69	0.81	34.7	1.73	53.3	0.58	0.71	0.83	
	1000	39.2	1.15	54.0	0.59	0.72	0.84	37.7	1.43	54.6	0.59	0.73	0.86	36.2	1.71	55.2	0.60	0.74	0.88	
	1200	40.8	1.13	56.2	0.61	0.76	0.90	39.2	1.40	56.7	0.62	0.77	0.92	37.7	1.68	57.1	0.63	0.79	0.94	
	1400	42.2	1.09	57.7	0.64	0.80	0.96	40.5	1.37	58.1	0.65	0.82	0.98	38.7	1.66	58.7	0.66	0.84	1.00	
71°F	550	34.7	1.24	50.0	0.43	0.51	0.60	33.5	1.50	50.9	0.43	0.52	0.60	32.3	1.77	51.7	0.43	0.52	0.61	
	700	37.6	1.19	53.6	0.43	0.53	0.63	36.2	1.45	54.3	0.43	0.54	0.64	34.9	1.73	55.2	0.43	0.54	0.64	
	850	39.8	1.14	56.2	0.44	0.55	0.66	38.3	1.42	56.8	0.44	0.56	0.67	36.7	1.69	57.6	0.44	0.56	0.68	
	1000	41.4	1.11	58.3	0.44	0.57	0.69	39.9	1.39	58.7	0.45	0.58	0.70	38.2	1.67	59.2	0.45	0.59	0.72	
	1200	43.2	1.08	60.0	0.46	0.60	0.74	41.5	1.35	60.6	0.46	0.61	0.75	39.8	1.64	61.1	0.46	0.62	0.77	
	1400	44.5	1.05	61.6	0.47	0.63	0.78	42.8	1.33	62.0	0.47	0.64	0.80	40.9	1.62	62.4	0.48	0.65	0.82	
Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
	95°F						105°F						115°F							
	Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)				
				Dry Bulb						Dry Bulb							Dry Bulb			
cfm	kBtuh	kW	°F	75°F	80°F	85°F	kBtuh	kW	°F	75°F	80°F	85°F	kBtuh	kW	°F	75°F	80°F	85°F		
63°F	550	---	---	---	---	---	---	---	---	---	---	---	---	25.1	2.75	45.9	0.69	0.81	0.92	
	700	29.8	2.08	47.3	0.71	0.83	0.95	28.4	2.38	48.2	0.72	0.85	0.97	27.0	2.71	49.2	0.73	0.87	0.99	
	850	31.4	2.05	50.1	0.74	0.88	1.00	29.9	2.36	51.1	0.76	0.90	1.00	28.3	2.70	52.2	0.78	0.93	1.00	
	1000	32.6	2.03	52.6	0.78	0.94	1.00	31.1	2.35	53.5	0.80	0.96	1.00	29.4	2.67	54.5	0.82	0.99	1.00	
	1200	34.0	2.00	55.3	0.83	1.00	1.00	32.6	2.31	56.0	0.86	1.00	1.00	31.0	2.65	57.0	0.88	1.00	1.00	
	1400	35.6	1.98	57.4	0.88	1.00	1.00	34.1	2.29	58.1	0.91	1.00	1.00	32.4	2.62	59.0	0.94	1.00	1.00	
67°F	550	29.3	2.08	48.1	0.55	0.65	0.74	28.0	2.39	49.2	0.55	0.65	0.76	26.7	2.71	50.2	0.56	0.66	0.77	
	700	31.6	2.05	51.4	0.57	0.68	0.80	30.2	2.36	52.4	0.57	0.69	0.81	28.6	2.69	53.3	0.58	0.71	0.83	
	850	33.3	2.02	53.9	0.59	0.72	0.85	31.7	2.34	54.7	0.60	0.73	0.87	30.0	2.67	55.5	0.61	0.75	0.89	
	1000	34.6	2.00	55.8	0.61	0.76	0.90	32.8	2.31	56.4	0.62	0.78	0.93	31.2	2.65	57.1	0.63	0.80	0.95	
	1200	35.8	1.97	57.7	0.64	0.81	0.97	34.1	2.28	58.2	0.66	0.83	0.99	32.3	2.62	59.0	0.67	0.86	1.00	
	1400	36.9	1.95	59.4	0.67	0.86	1.00	35.0	2.27	60.1	0.69	0.89	1.00	33.1	2.60	60.9	0.71	0.91	1.00	
71°F	550	31.0	2.06	52.5	0.43	0.53	0.62	29.6	2.36	53.6	0.43	0.53	0.63	28.2	2.69	54.5	0.43	0.54	0.64	
	700	33.4	2.02	55.7	0.44	0.55	0.66	31.9	2.32	56.7	0.44	0.55	0.67	30.3	2.66	57.6	0.44	0.56	0.68	
	850	35.1	1.99	58.3	0.44	0.57	0.69	33.5	2.30	58.8	0.45	0.58	0.71	31.8	2.63	59.6	0.45	0.59	0.73	
	1000	36.5	1.97	59.9	0.45	0.60	0.73	34.8	2.27	60.5	0.46	0.61	0.75	33.0	2.61	61.1	0.47	0.62	0.77	
	1200	38.0	1.94	61.5	0.47	0.63	0.79	36.1	2.26	62.2	0.47	0.64	0.81	34.2	2.59	62.7	0.48	0.66	0.83	
	1400	38.9	1.91	63.1	0.47	0.66	0.84	37.0	2.23	63.4	0.49	0.68	0.86	35.0	2.57	64.0	0.49	0.70	0.89	

RATINGS

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

4 TON - LGH048U4

Entering Wet Bulb Tempera- ture	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																	
		65°F						75°F						85°F					
		Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)		
					Dry Bulb						Dry Bulb						Dry Bulb		
cfm	kBtuh	kW	°F	75°F	80°F	85°F	kBtuh	kW	°F	75°F	80°F	85°F	kBtuh	kW	°F	75°F	80°F	85°F	
63°F	850	---	---	---	---	---	---	---	---	---	---	---	40.9	2.45	45.0	0.68	0.79	0.89	
	1000	46.5	1.84	45.7	0.69	0.80	0.90	44.5	2.13	46.8	0.69	0.81	0.92	42.8	2.45	47.5	0.70	0.82	0.94
	1150	48.4	1.83	47.8	0.71	0.83	0.94	46.4	2.12	48.6	0.72	0.84	0.96	44.5	2.44	49.3	0.73	0.86	0.98
	1300	50.0	1.82	49.5	0.73	0.86	0.98	47.8	2.12	50.3	0.74	0.88	1.00	45.9	2.43	51.2	0.75	0.89	1.00
	1600	52.5	1.81	52.8	0.77	0.92	1.00	50.1	2.10	53.6	0.79	0.94	1.00	48.0	2.43	54.3	0.81	0.97	1.00
	1900	54.4	1.81	55.3	0.82	0.98	1.00	52.0	2.10	56.0	0.84	1.00	1.00	49.9	2.42	56.8	0.86	1.00	1.00
67°F	850	46.9	1.84	47.5	0.54	0.64	0.73	45.0	2.12	48.3	0.55	0.65	0.74	43.3	2.44	49.3	0.55	0.65	0.75
	1000	49.3	1.83	50.0	0.55	0.66	0.76	47.3	2.11	50.8	0.56	0.67	0.77	45.4	2.43	51.6	0.56	0.68	0.79
	1150	51.3	1.82	51.9	0.57	0.68	0.79	49.1	2.11	52.7	0.57	0.69	0.81	47.1	2.43	53.3	0.58	0.70	0.83
	1300	53.0	1.81	53.6	0.58	0.70	0.82	50.7	2.11	54.1	0.59	0.72	0.84	48.5	2.43	54.9	0.59	0.73	0.86
	1600	55.4	1.81	56.1	0.60	0.75	0.89	52.9	2.10	56.6	0.61	0.77	0.91	50.7	2.42	57.2	0.62	0.78	0.93
	1900	57.2	1.80	57.9	0.63	0.80	0.95	54.6	2.09	58.4	0.64	0.82	0.97	52.2	2.42	58.9	0.66	0.83	1.00
71°F	850	49.5	1.82	52.0	0.43	0.52	0.61	47.5	2.11	52.7	0.43	0.53	0.62	45.7	2.44	53.6	0.43	0.53	0.63
	1000	52.0	1.82	54.5	0.43	0.53	0.63	49.9	2.11	55.1	0.44	0.54	0.64	48.0	2.43	55.7	0.44	0.55	0.65
	1150	54.1	1.81	56.2	0.44	0.55	0.65	51.8	2.10	56.9	0.44	0.55	0.67	49.7	2.43	57.6	0.44	0.56	0.68
	1300	55.9	1.81	57.7	0.44	0.56	0.68	53.4	2.10	58.4	0.44	0.57	0.69	51.2	2.42	59.0	0.45	0.58	0.70
	1600	58.5	1.80	60.0	0.45	0.59	0.73	55.8	2.09	60.6	0.46	0.60	0.74	53.5	2.42	61.1	0.46	0.61	0.76
	1900	60.6	1.80	61.8	0.46	0.62	0.77	57.7	2.09	62.2	0.47	0.63	0.80	55.1	2.41	62.6	0.48	0.65	0.81
Entering Wet Bulb Tempera- ture	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																	
		95°F						105°F						115°F					
		Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)		
					Dry Bulb						Dry Bulb						Dry Bulb						Dry Bulb
cfm	kBtuh	kW	°F	75°F	80°F	85°F	kBtuh	kW	°F	75°F	80°F	85°F	kBtuh	kW	°F	75°F	80°F	85°F	
63°F	850	39.2	2.80	45.84	0.69	0.80	0.91	37.5	3.20	46.78	0.70	0.81	0.93	35.5	3.62	47.90	0.71	0.83	0.95
	1000	41.2	2.80	48.08	0.71	0.84	0.96	39.3	3.19	48.83	0.73	0.86	0.98	37.1	3.62	50.00	0.74	0.88	1.00
	1150	42.7	2.79	49.97	0.74	0.88	1.00	40.7	3.18	51.05	0.75	0.90	1.00	38.4	3.61	52.28	0.77	0.92	1.00
	1300	43.9	2.78	52.07	0.77	0.91	1.00	41.8	3.18	53.01	0.78	0.94	1.00	39.4	3.61	54.00	0.81	0.97	1.00
	1600	46.0	2.78	55.07	0.82	0.99	1.00	43.8	3.17	56.00	0.84	1.00	1.00	41.6	3.60	56.97	0.87	1.00	1.00
	1900	48.0	2.78	57.54	0.88	1.00	1.00	45.9	3.17	58.38	0.90	1.00	1.00	43.6	3.61	59.25	0.93	1.00	1.00
67°F	850	41.7	2.80	49.87	0.56	0.66	0.77	39.8	3.17	50.95	0.56	0.67	0.78	37.7	3.62	51.80	0.57	0.69	0.80
	1000	43.6	2.79	52.28	0.57	0.69	0.80	41.7	3.18	52.97	0.58	0.70	0.82	39.2	3.60	53.99	0.59	0.72	0.84
	1150	45.2	2.79	54.16	0.58	0.71	0.84	43.1	3.18	54.78	0.59	0.73	0.86	40.6	3.60	55.59	0.60	0.75	0.89
	1300	46.5	2.78	55.49	0.60	0.74	0.88	44.3	3.17	56.13	0.61	0.76	0.90	41.6	3.61	56.89	0.63	0.78	0.93
	1600	48.4	2.78	57.59	0.64	0.80	0.96	46.0	3.17	58.26	0.65	0.82	0.98	43.4	3.60	58.99	0.66	0.85	1.00
	1900	49.9	2.78	59.57	0.67	0.85	1.00	47.4	3.17	60.29	0.68	0.88	1.00	44.5	3.60	61.13	0.70	0.91	1.00
71°F	850	44.0	2.80	54.28	0.43	0.54	0.64	42.1	3.18	55.24	0.43	0.54	0.65	39.8	3.61	56.15	0.44	0.55	0.66
	1000	46.0	2.78	56.57	0.44	0.55	0.66	43.9	3.17	57.37	0.44	0.56	0.67	41.5	3.61	58.23	0.44	0.57	0.69
	1150	47.6	2.78	58.28	0.44	0.57	0.69	45.5	3.18	58.87	0.45	0.58	0.70	42.9	3.61	59.74	0.45	0.59	0.72
	1300	49.1	2.78	59.48	0.45	0.59	0.72	46.7	3.17	60.15	0.45	0.60	0.74	44.1	3.60	60.84	0.46	0.61	0.76
	1600	51.1	2.77	61.57	0.47	0.62	0.78	48.7	3.17	62.06	0.47	0.64	0.80	45.8	3.60	62.77	0.48	0.65	0.82
	1900	52.6	2.77	63.17	0.48	0.66	0.83	50.0	3.17	63.59	0.48	0.68	0.86	47.0	3.60	64.12	0.49	0.70	0.89

RATINGS

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

5 TON - LGH060U4

Entering Wet Bulb Tempera- ture	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																	
		65°F						75°F						85°F					
		Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)		
					Dry Bulb						Dry Bulb						Dry Bulb		
cfm	kBtuh	kW	°F	75°F	80°F	85°F	kBtuh	kW	°F	75°F	80°F	85°F	kBtuh	kW	°F	75°F	80°F	85°F	
63°F	950	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1150	56.1	2.48	45.2	0.67	0.77	0.87	54.7	2.79	45.8	0.67	0.78	0.88	52.8	3.18	46.4	0.68	0.79	0.90
	1300	58.3	2.48	46.9	0.68	0.80	0.91	56.5	2.80	47.7	0.69	0.80	0.92	54.7	3.19	48.1	0.70	0.82	0.94
	1550	61.0	2.48	49.5	0.71	0.84	0.96	59.0	2.80	50.0	0.72	0.85	0.98	57.0	3.20	50.6	0.73	0.87	0.99
	1800	63.1	2.47	51.4	0.75	0.89	1.00	61.2	2.80	52.1	0.76	0.90	1.00	59.0	3.21	52.8	0.77	0.92	1.00
	2300	66.3	2.47	55.3	0.81	0.97	1.00	64.1	2.80	55.8	0.82	0.99	1.00	61.9	3.21	56.5	0.83	1.00	1.00
67°F	950	56.4	2.48	45.9	0.53	0.62	0.71	54.8	2.79	46.4	0.54	0.63	0.72	53.1	3.19	47.4	0.54	0.63	0.72
	1150	59.9	2.48	49.1	0.54	0.64	0.74	58.1	2.80	49.6	0.55	0.65	0.75	56.1	3.19	50.6	0.55	0.65	0.75
	1300	61.9	2.48	51.0	0.55	0.66	0.76	60.1	2.80	51.5	0.55	0.67	0.78	58.0	3.20	52.2	0.56	0.67	0.79
	1550	64.6	2.47	53.4	0.57	0.69	0.81	62.5	2.80	54.1	0.57	0.69	0.82	60.4	3.21	54.5	0.58	0.70	0.84
	1800	66.9	2.46	55.2	0.59	0.72	0.85	64.8	2.80	55.7	0.59	0.73	0.87	62.3	3.21	56.3	0.60	0.74	0.88
	2300	70.2	2.45	57.8	0.63	0.79	0.94	67.8	2.80	58.3	0.63	0.80	0.96	65.3	3.22	58.8	0.63	0.81	0.98
71°F	950	59.7	2.48	50.3	0.43	0.51	0.59	58.1	2.80	50.9	0.43	0.51	0.60	56.3	3.20	51.6	0.43	0.52	0.60
	1150	63.3	2.47	53.3	0.43	0.52	0.62	61.5	2.80	53.9	0.43	0.53	0.62	59.5	3.21	54.6	0.43	0.53	0.63
	1300	65.6	2.47	55.2	0.43	0.53	0.63	63.6	2.80	55.7	0.43	0.54	0.64	61.5	3.21	56.3	0.43	0.54	0.65
	1550	68.5	2.46	57.6	0.43	0.55	0.66	66.4	2.80	58.1	0.44	0.55	0.67	64.0	3.22	58.7	0.44	0.55	0.68
	1800	70.9	2.45	59.1	0.44	0.58	0.70	68.6	2.80	59.7	0.44	0.58	0.71	66.0	3.22	60.1	0.45	0.59	0.72
	2300	74.2	2.44	61.7	0.46	0.62	0.76	71.7	2.79	62.0	0.47	0.62	0.78	68.9	3.22	62.6	0.46	0.63	0.79
Entering Wet Bulb Tempera- ture	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																	
		95°F						105°F						115°F					
		Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)		
		cfm	kBtuh	kW	°F	75°F	80°F	85°F	kBtuh	kW	°F	75°F	80°F	85°F	kBtuh	kW	°F	75°F	80°F
63°F	950	---	---	---	---	---	45.9	4.10	45.3	0.67	0.78	0.88	43.7	4.60	46.4	0.68	0.79	0.90	
	1150	50.7	3.63	47.2	0.69	0.80	0.92	48.5	4.12	48.0	0.70	0.82	0.94	46.1	4.62	48.9	0.71	0.84	0.96
	1300	52.4	3.65	48.9	0.71	0.83	0.96	50.1	4.13	49.7	0.72	0.85	0.98	47.5	4.63	50.7	0.73	0.87	1.00
	1550	54.6	3.66	51.4	0.74	0.89	1.00	52.1	4.15	52.3	0.76	0.91	1.00	49.4	4.66	53.2	0.78	0.94	1.00
	1800	56.3	3.66	53.7	0.78	0.94	1.00	53.9	4.16	54.5	0.80	0.96	1.00	51.0	4.67	55.4	0.82	0.99	1.00
	2300	59.5	3.68	57.2	0.86	1.00	1.00	57.1	4.18	58.0	0.87	1.00	1.00	54.4	4.70	58.8	0.91	1.00	1.00
67°F	950	51.1	3.64	48.3	0.54	0.64	0.73	49.0	4.13	49.3	0.55	0.64	0.74	46.6	4.63	50.5	0.55	0.65	0.75
	1150	54.0	3.65	51.4	0.55	0.66	0.76	51.6	4.15	52.0	0.56	0.67	0.79	49.0	4.65	53.2	0.56	0.68	0.80
	1300	55.7	3.66	52.8	0.57	0.69	0.80	53.2	4.15	53.7	0.57	0.69	0.82	50.5	4.67	54.5	0.58	0.71	0.84
	1550	57.9	3.67	55.1	0.59	0.72	0.85	55.3	4.17	55.7	0.60	0.74	0.87	52.4	4.68	56.3	0.61	0.76	0.90
	1800	59.7	3.68	56.7	0.61	0.76	0.91	57.0	4.18	57.2	0.62	0.78	0.93	53.9	4.69	58.1	0.62	0.79	0.96
	2300	62.5	3.69	59.1	0.66	0.83	1.00	59.3	4.19	59.9	0.66	0.86	1.00	56.2	4.71	60.7	0.68	0.88	1.00
71°F	950	54.1	3.65	52.6	0.43	0.52	0.61	51.9	4.15	53.4	0.43	0.53	0.62	49.5	4.66	54.4	0.43	0.53	0.63
	1150	57.2	3.66	55.4	0.43	0.53	0.64	54.7	4.16	56.2	0.43	0.54	0.65	52.0	4.68	57.0	0.44	0.55	0.66
	1300	59.1	3.68	57.0	0.43	0.55	0.66	56.4	4.18	57.8	0.44	0.55	0.67	53.5	4.69	58.7	0.44	0.56	0.68
	1550	61.4	3.69	59.1	0.45	0.57	0.69	58.6	4.19	59.8	0.45	0.58	0.70	55.6	4.70	60.3	0.45	0.60	0.73
	1800	63.3	3.69	60.6	0.46	0.60	0.73	60.3	4.20	61.2	0.46	0.61	0.75	57.0	4.72	61.9	0.46	0.62	0.77
	2300	66.0	3.70	63.0	0.47	0.64	0.81	62.8	4.21	63.3	0.48	0.67	0.83	59.4	4.74	64.0	0.48	0.67	0.86

RATINGS

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

6 TON - LGH074U4

Entering Wet Bulb Tempera- ture	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																	
		65°F						75°F						85°F					
		Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)		
					Dry Bulb						Dry Bulb						Dry Bulb		
cfm	kBtuh	kW	°F	75°F	80°F	85°F	kBtuh	kW	°F	75°F	80°F	85°F	kBtuh	kW	°F	75°F	80°F	85°F	
63°F	950	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	1200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	1500	70.9	3.24	45.3	0.68	0.80	0.90	68.6	3.66	46.0	0.69	0.80	0.92	66.6	4.17	46.4	0.70	0.82	0.93
	1750	73.7	3.25	47.8	0.70	0.83	0.95	71.5	3.67	48.0	0.72	0.85	0.97	68.8	4.19	48.7	0.73	0.86	0.99
	2050	76.3	3.25	49.9	0.74	0.88	1.00	74.0	3.68	50.7	0.74	0.89	1.00	71.3	4.21	51.3	0.76	0.91	1.00
	2300	78.3	3.25	51.7	0.77	0.92	1.00	75.8	3.69	52.4	0.78	0.93	1.00	72.9	4.22	53.2	0.79	0.95	1.00
67°F	950	65.1	3.22	41.3	0.53	0.61	0.69	63.4	3.63	42.3	0.53	0.61	0.69	61.4	4.13	43.1	0.53	0.62	0.70
	1200	70.4	3.24	45.8	0.54	0.63	0.72	68.5	3.66	46.5	0.54	0.63	0.73	66.3	4.17	47.3	0.54	0.64	0.74
	1500	75.2	3.25	49.5	0.55	0.66	0.76	72.9	3.68	50.2	0.56	0.66	0.77	70.3	4.20	50.9	0.56	0.67	0.78
	1750	78.1	3.25	51.9	0.56	0.68	0.80	75.7	3.69	52.4	0.57	0.69	0.81	72.9	4.22	52.9	0.58	0.70	0.83
	2050	80.9	3.25	53.9	0.58	0.72	0.84	78.2	3.70	54.5	0.58	0.73	0.86	75.3	4.23	54.9	0.60	0.74	0.87
	2300	82.8	3.25	55.3	0.60	0.74	0.88	80.1	3.70	55.6	0.61	0.76	0.90	77.2	4.24	56.2	0.61	0.77	0.92
71°F	950	69.1	3.23	45.9	0.43	0.51	0.58	67.3	3.65	46.8	0.43	0.51	0.58	65.1	4.17	47.6	0.43	0.51	0.59
	1200	74.8	3.25	50.2	0.43	0.52	0.60	72.6	3.68	50.9	0.43	0.52	0.61	70.2	4.20	51.7	0.43	0.52	0.62
	1500	79.6	3.25	54.0	0.43	0.53	0.63	77.2	3.70	54.4	0.43	0.54	0.64	74.5	4.23	55.2	0.43	0.54	0.65
	1750	82.7	3.25	56.1	0.44	0.55	0.65	80.2	3.70	56.7	0.44	0.55	0.66	77.3	4.24	57.1	0.44	0.56	0.68
	2050	85.5	3.25	58.1	0.44	0.57	0.69	82.9	3.71	58.7	0.44	0.57	0.70	79.9	4.26	59.1	0.45	0.58	0.71
	2300	87.7	3.25	59.3	0.45	0.59	0.72	85.0	3.71	59.7	0.45	0.60	0.73	81.6	4.27	60.4	0.45	0.60	0.74
Entering Wet Bulb Tempera- ture	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																	
		95°F						105°F						115°F					
		Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)			Total Cool- ing Cap.	Comp. Motor Input	Dis- charge Air Temp.	Sensible To Total Ratio (S/T)		
					Dry Bulb						Dry Bulb							Dry Bulb	
cfm	kBtuh	kW	°F	75°F	80°F	85°F	kBtuh	kW	°F	75°F	80°F	85°F	kBtuh	kW	°F	75°F	80°F	85°F	
63°F	950	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	1200	---	---	---	---	---	57.2	5.34	45.1	0.68	0.79	0.90	54.5	5.96	46.1	0.69	0.81	0.92	
	1500	63.7	4.76	47.4	0.71	0.83	0.95	60.8	5.38	48.1	0.72	0.85	0.98	57.7	6.01	49.1	0.73	0.87	1.00
	1750	65.9	4.77	49.7	0.73	0.88	1.00	63.0	5.40	50.6	0.75	0.90	1.00	59.7	6.03	51.8	0.76	0.92	1.00
	2050	68.3	4.80	52.2	0.77	0.93	1.00	65.0	5.42	53.1	0.79	0.96	1.00	61.9	6.06	54.0	0.81	0.98	1.00
	2300	69.8	4.81	54.0	0.81	0.97	1.00	66.6	5.44	54.8	0.83	0.99	1.00	63.3	6.07	55.8	0.85	1.00	1.00
67°F	950	59.1	4.71	44.3	0.53	0.62	0.71	56.8	5.33	45.1	0.54	0.63	0.72	54.3	5.97	46.3	0.54	0.64	0.73
	1200	63.7	4.75	48.1	0.55	0.65	0.75	61.0	5.38	49.1	0.55	0.66	0.76	58.0	6.01	50.2	0.56	0.67	0.77
	1500	67.6	4.79	51.6	0.56	0.68	0.80	64.5	5.41	52.4	0.57	0.69	0.82	61.3	6.05	53.1	0.58	0.71	0.84
	1750	70.0	4.81	53.7	0.58	0.71	0.84	66.8	5.44	54.3	0.59	0.73	0.86	63.3	6.08	55.1	0.60	0.74	0.89
	2050	72.1	4.83	55.6	0.61	0.74	0.90	69.0	5.46	56.0	0.62	0.77	0.92	65.4	6.11	56.7	0.63	0.79	0.95
	2300	73.8	4.84	56.7	0.62	0.79	0.94	70.5	5.47	57.1	0.64	0.81	0.97	66.6	6.12	57.9	0.65	0.83	0.99
71°F	950	62.8	4.74	48.8	0.43	0.51	0.59	60.2	5.36	49.9	0.43	0.51	0.60	57.7	6.01	50.8	0.43	0.52	0.61
	1200	67.5	4.79	52.6	0.43	0.53	0.62	64.7	5.42	53.5	0.43	0.53	0.63	61.6	6.06	54.5	0.43	0.54	0.64
	1500	71.6	4.82	56.0	0.43	0.55	0.65	68.4	5.45	56.6	0.44	0.55	0.67	65.1	6.10	57.5	0.44	0.56	0.68
	1750	74.2	4.84	57.8	0.44	0.57	0.69	70.7	5.48	58.6	0.45	0.57	0.70	67.2	6.12	59.1	0.45	0.59	0.72
	2050	76.6	4.86	59.7	0.45	0.59	0.72	73.0	5.50	60.2	0.46	0.60	0.74	69.3	6.15	60.7	0.46	0.62	0.77
	2300	78.2	4.88	60.7	0.46	0.62	0.76	74.6	5.51	61.2	0.47	0.63	0.78	70.4	6.16	61.9	0.47	0.64	0.81

BLOWER DATA - DIRECT DRIVE - 3 TON

36 DIRECT DRIVE BLOWER - BASE UNIT

TABLE INCIDENCE RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COOL AND AIR FILTERS IN PLACE

EOB ALL INITIATIVES ADD:

- OR ALL UNITS ADD:

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

see page 24 or blower motors and drives and wet soil and options/accessories air resistance data

DOWNFLOW

HORIZONTAL

External Static Press. n. w.g.												Percentage of Total Motor Torque																		
10%			20%			30%			40%			50%			60%			70%			80%			90%						
Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM				
0.1	432	29	395	674	49	443	882	79	511	1053	115	567	1211	156	617	1334	205	676	1463	260	725	1583	322	769	1692	391	813	1791	466	852
0.2	334	32	479	581	56	537	822	87	582	1021	122	609	1178	165	659	1308	215	712	1439	270	758	1560	333	801	1670	402	843	1771	477	877
0.3	217	36	578	517	61	603	763	96	651	953	137	696	1128	179	720	1265	230	768	1400	286	809	1522	350	850	1634	420	888	1737	494	920
0.4	149	39	636	436	68	684	703	105	719	918	145	738	1079	193	781	1237	239	805	1374	297	842	1498	361	881	1611	431	917	1714	505	947
0.5	---	---	---	372	73	749	644	114	786	867	155	799	1046	201	820	1194	254	858	1335	312	891	1460	377	927	1576	447	960	1680	521	987
0.6	---	---	---	---	---	---	---	---	---	816	166	858	997	214	879	1152	267	909	1296	326	938	1435	387	957	1552	457	987	1645	536	1026
0.7	---	---	---	---	---	---	---	---	765	176	915	948	227	936	1109	280	959	1257	339	983	1398	401	1000	1517	471	1026	1611	550	1063	
0.8	---	---	---	---	---	---	---	---	714	185	970	915	235	974	1081	288	991	1231	348	1013	1360	415	1041	1482	484	1064	1588	558	1087	
0.9	---	---	---	---	---	---	---	---	663	194	1022	866	247	1030	1024	304	1052	1179	364	1070	1322	427	1081	1434	500	1112	1542	575	1133	
1.0	---	---	---	---	---	---	---	---	611	203	1073	816	259	1085	981	315	1096	1140	376	1112	1285	438	1118	1399	511	1146	1508	586	1165	
1.1	---	---	---	---	---	---	---	---	939	325	1138	1101	387	1152	1235	452	1166	1364	521	1178	1474	596	1197	---	---	---	---	---		
1.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1198	461	1200	1323	532	1214	1439	606	1227

BLOWER DATA - DIRECT DRIVE - 4 TON

048 DIRECT DRIVE BLOWER - BASE UNIT

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 24 for blower motors and drives and wet coil and options/accessory air resistance data.

DOWNTIME

External Static Press. in. w.g.	Percentage of Total Motor Torque											
	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%		
Cfm	Watts	RPMM	Cfm	Watts	RPMM	Cfm	Watts	RPMM	Cfm	Watts	RPMM	Cfm
0.1	682	46	420	894	79	499	1148	131	579	1366	192	651
0.2	583	52	510	836	87	562	1105	142	635	1329	204	697
0.3	484	59	601	778	96	629	1062	152	688	1292	217	744
0.4	410	64	666	720	105	697	1019	162	739	1255	231	792
0.5	---	---	662	114	764	961	176	805	1218	244	840	1428
0.6	---	---	---	---	---	---	---	1182	257	887	1398	341
0.7	---	---	---	---	---	---	---	1145	270	933	1367	354
0.8	---	---	---	---	---	---	---	1096	287	992	1326	372
0.9	---	---	---	---	---	---	---	1047	302	1047	1296	385
1.0	---	---	---	---	---	---	---	1010	312	1085	1255	403
1.1	---	---	---	---	---	---	---	---	---	---	---	---
1.2	---	---	---	---	---	---	---	---	---	---	---	---

HORIZONTAL

External Static Press. in. w.g.	Percentage of Total Motor Torque											
	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%		
Cfm	Watts	RPMM	Cfm	Watts	RPMM	Cfm	Watts	RPMM	Cfm	Watts	RPMM	Cfm
0.1	641	46	443	875	82	522	1127	137	614	1334	202	691
0.2	568	50	505	831	90	582	1097	144	650	1310	211	723
0.3	483	56	584	778	98	647	1050	155	706	1269	225	777
0.4	398	62	661	724	106	707	1004	167	764	1228	240	831
0.5	---	---	671	113	763	957	179	822	1201	250	867	1413
0.6	---	---	---	---	---	---	---	1161	265	919	1378	350
0.7	---	---	---	---	---	---	---	1120	279	970	1344	365
0.8	---	---	---	---	---	---	---	1093	288	1003	1310	379
0.9	---	---	---	---	---	---	---	1052	302	1051	1275	393
1.0	---	---	---	---	---	---	---	1012	314	1096	1241	407
1.1	---	---	---	---	---	---	---	---	---	---	1386	516
1.2	---	---	---	---	---	---	---	---	---	---	1201	1571

BLOWER DATA - DIRECT DRIVE - 5 AND 6 TON

160/074 DIRECT DRIVE BLOWER - BASE UNIT

OWNER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COOL AND AIR FILTERS IN PLACE

BECOME A MEMBER

- FOR ALL UNITS ADD:**

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

See page 24 for blower motors and drives and section 11 for necessary air resistance data.

DOWNFLOW

External Static Press. n.w.g.														Percentage of Total Motor Torque																				
10%		20%		30%		40%		50%		60%		70%		80%		90%		100%																
Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM											
0.1	743	58	428	992	100	492	1284	161	556	1526	231	607	1726	327	678	1890	427	737	2072	557	800	2220	686	848	2362	842	901	2478	996	938				
0.2	661	65	497	928	110	556	1231	175	610	1479	251	662	1685	348	726	1872	440	761	2052	574	827	2198	705	876	2344	860	925	2468	1016	969				
0.3	579	71	563	881	118	602	1179	188	663	1431	270	716	1658	362	757	1835	466	807	2024	597	863	2176	724	903	2322	881	952	2448	1035	993				
0.4	518	76	611	818	128	662	1126	202	716	1400	283	751	1618	383	802	1811	483	837	1995	619	898	2153	743	930	2301	900	978	2428	1053	1016				
0.5	---	---	---	754	138	719	1074	216	768	1352	301	801	1578	403	847	1775	507	881	1972	636	925	2120	769	968	2280	919	1002	2403	1074	1043				
0.6	---	---	---	---	---	---	---	---	---	1305	319	850	1551	416	875	1738	529	922	1938	659	963	2098	785	992	2248	945	1037	2383	1090	1064				
0.7	---	---	---	---	---	---	---	---	---	1273	330	882	1511	434	917	1714	544	948	1903	681	1000	2064	808	1026	2227	961	1039	2353	1113	1094				
0.8	---	---	---	---	---	---	---	---	---	1226	347	928	1470	453	957	1678	564	986	1869	701	1033	2031	830	1058	2195	983	1090	2323	1133	1121				
0.9	---	---	---	---	---	---	---	---	---	1178	363	972	1430	470	997	1641	583	1022	1835	720	1065	1998	849	1088	2163	1004	1119	2293	1151	1147				
1.0	---	---	---	---	---	---	---	---	---	1147	374	1000	1390	487	1034	1605	601	1057	1800	737	1094	1953	873	1125	2131	1022	1146	2263	1167	1170				
1.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1556	623	1099	1755	756	1129	1920	888	1151	2089	1043	1177	2203	1193	1211	2169	1213	1227
1.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1875	906	1181	2036	1063	1211	2169	1213	1227	1227			

HORIZONTAL

External Static Press. n. w.g.												Percentage of Total Motor Torque																			
10%			20%			30%			40%			50%			60%			70%			80%			90%							
Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM					
0.1	695	49	431	1051	88	470	1280	157	562	1430	314	665	1615	420	753	1798	526	807	1957	656	873	2100	793	925	2228	947	979	2351	1107	1022	
0.2	610	55	495	973	96	543	1233	166	607	1382	332	715	1589	433	782	1762	547	847	1927	677	905	2079	808	947	2207	965	1002	2332	1126	1043	
0.3	525	61	560	914	104	612	1186	177	657	1347	345	752	1563	446	811	1738	561	873	1907	690	927	2047	830	979	2186	982	1024	2308	1148	1069	
0.4	461	66	611	856	115	695	1138	190	714	1312	358	788	1525	464	853	1702	581	911	1877	709	958	2026	844	999	2165	998	1046	2289	1164	1088	
0.5	---	---	822	122	749	1095	202	772	1277	370	823	1486	482	893	1678	593	936	1847	726	987	1995	864	1030	2144	1013	1067	2264	1182	1111		
0.6	---	---	---	---	---	---	---	---	1242	382	857	1460	494	919	1642	612	972	1827	738	1007	1974	877	1050	2112	1035	1096	2239	1197	1133		
0.7	---	---	---	---	---	---	---	---	1194	398	901	1421	510	957	1618	624	995	1787	760	1044	1943	896	1079	2091	1048	1115	2208	1213	1158		
0.8	---	---	---	---	---	---	---	---	1148	413	943	1382	527	993	1582	641	1029	1757	775	1071	1912	914	1107	2059	1065	1142	2184	1223	1176		
0.9	---	---	---	---	---	---	---	---	1112	424	974	1343	542	1028	1546	657	1061	1727	789	1096	1880	932	1135	2028	1081	1167	2147	1233	1200		
1.0	---	---	---	---	---	---	---	---	1069	438	1011	1305	557	1062	1510	673	1092	1687	807	1129	1849	948	1162	1996	1095	1191	2110	1238	1221		
1.1	---	---	---	---	---	---	---	---	---	---	---	1474	688	1122	1652	822	1156	1818	964	1188	1964	1107	1212	2060	1235	1243	1123	1245	2010	1221	1258
1.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1781	982	1217	1912	1123	1245	2010	1221	1258		

BLOWER DATA

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

Air Volume cfm	Wet Indoor Coil		Gas Heating		Economizer	Filters	
	036, 048	060, 074	Medium Heat	High Heat		MERV 8	MERV 13
800	0.01	---	0.02	0.02	0.04	0.04	0.05
1000	0.02	0.02	0.02	0.02	0.04	0.04	0.07
1200	0.03	0.04	0.02	0.02	0.04	0.04	0.07
1400	0.04	0.05	0.02	0.03	0.04	0.04	0.07
1600	0.05	0.07	0.03	0.04	0.04	0.04	0.07
1800	0.06	0.08	0.04	0.05	0.05	0.04	0.07
2000	0.08	0.10	0.04	0.06	0.05	0.05	0.08
2200	---	0.11	0.04	0.07	0.05	0.05	0.08
2400	---	0.13	0.05	0.08	0.05	0.05	0.08

POWER EXHAUST FAN PERFORMANCE

Return Air System Static Pressure in. w.g.	Air Volume Exhausted cfm
0.00	2000
0.05	1990
0.10	1924
0.15	1810
0.20	1664
0.25	1507
0.30	1350
0.35	1210

CEILING DIFFUSERS AIR RESISTANCE (in. w.g.)

Air Volume - cfm	RTD11-95S Step-Down Diffuser			FD11-95S Flush Diffuser
	2 Ends Open	1 Side & 2 Ends Open	All Ends & Sides Open	
1800	0.13	0.11	0.09	0.09
2000	0.15	0.13	0.11	0.10
2200	0.18	0.15	0.12	0.12
2400	0.21	0.18	0.15	0.14
2600	0.24	0.21	0.18	0.17
2800	0.27	0.24	0.21	0.20
3000	0.32	0.29	0.25	0.25

CEILING DIFFUSER AIR THROW DATA

Air Volume - cfm	¹ Effective Throw - ft.	
	RTD11-95S	FD11-95S
2600	24 - 29	19 - 24
2800	25 - 30	20 - 28
3000	27 - 33	21 - 29

^¹ Effective throw based on terminal velocities of 75 ft. per minute.

ELECTRICAL DATA**3 TON****3 TON ULTRA EFFICIENCY (R-410A)****LGH036U4E**

¹ Voltage - 60hz		208/230V - 3 Ph	460V - 3 Ph
Compressor	Rated Load Amps	9.1	5.1
Outdoor Fan Motor	Full Load Amps	4.1	2.1
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4	1.3
Service Outlet 115V GFI (amps)		15	15
Indoor Blower Motor	Horsepower	0.5	0.5
	Full Load Amps	4.3	2.2
² Maximum Overcurrent Protection	Unit Only	25	15
	With (1) 0.33 HP Power Exhaust	30	15
³ Minimum Circuit Ampacity	Unit Only	20	11
	With (1) 0.33 HP Power Exhaust	23	12

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

¹ Extremes of operating range are plus and minus 10% of line voltage.² HACR type breaker or fuse.³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.**ELECTRICAL DATA****4 TON****4 TON ULTRA EFFICIENCY (R-410A)****LGH048U4E**

¹ Voltage - 60hz		208/230V - 3 Ph	460V - 3 Ph
Compressor	Rated Load Amps	13.8	6.5
Outdoor Fan Motor	Full Load Amps	4.1	2.1
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4	1.3
Service Outlet 115V GFI (amps)		15	15
Indoor Blower Motor	Horsepower	0.75	0.75
	Full Load Amps	6.1	3.1
² Maximum Overcurrent Protection	Unit Only	40	15
	With (1) 0.33 HP Power Exhaust	40	20
³ Minimum Circuit Ampacity	Unit Only	28	14
	With (1) 0.33 HP Power Exhaust	30	15

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

¹ Extremes of operating range are plus and minus 10% of line voltage.² HACR type breaker or fuse.³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

ELECTRICAL DATA**5 TON****5 TON ULTRA EFFICIENCY (R-410A)****LGH060U4E**

1 Voltage - 60hz		208/230V - 3 Ph	460V - 3 Ph
Compressor	Rated Load Amps	14.6	7
Outdoor Fan Motor	Full Load Amps	4.1	2.1
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4	1.3
Service Outlet 115V GFI (amps)		15	15
Indoor Blower Motor	Horsepower	1	1
	Full Load Amps	7.4	3.7
2 Maximum Overcurrent Protection	Unit Only	40	20
	With (1) 0.33 HP Power Exhaust	45	20
3 Minimum Circuit Ampacity	Unit Only	30	15
	With (1) 0.33 HP Power Exhaust	33	16

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

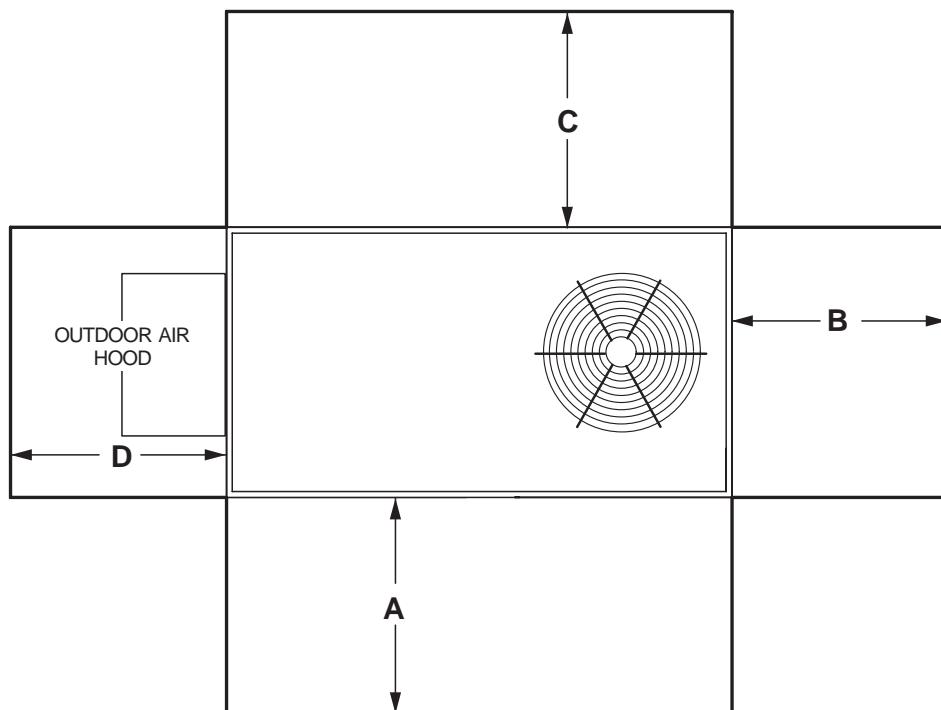
¹ Extremes of operating range are plus and minus 10% of line voltage.² HACR type breaker or fuse.³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.**ELECTRICAL DATA****6 TON****6 TON ULTRA EFFICIENCY (R-410A)****LGH074U4E**

1 Voltage - 60hz		208/230V - 3 Ph	460V - 3 Ph
Compressor	Rated Load Amps	16.9	8.3
Outdoor Fan Motor	Full Load Amps	4.1	2.1
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4	1.3
Service Outlet 115V GFI (amps)		15	16
Indoor Blower Motor	Horsepower	1	1
	Full Load Amps	7.4	3.7
2 Maximum Overcurrent Protection	Unit Only	45	20
	With (1) 0.33 HP Power Exhaust	50	25
3 Minimum Circuit Ampacity	Unit Only	33	17
	With (1) 0.33 HP Power Exhaust	36	18

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

¹ Extremes of operating range are plus and minus 10% of line voltage.² HACR type breaker or fuse.³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

UNIT CLEARANCES - INCHES (MM)



¹ Unit Clearance	A		B		C		D		Top Clearance
	in.	mm	in.	mm	in.	mm	in.	mm	
Service Clearance	48	1219	36	914	36	934	36	914	Unobstructed
Clearance to Combustibles	36	914	1	25	1	25	1	25	
Minimum Operation Clearance	36	914	36	914	36	914	36	914	

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

¹ Service Clearance - Required for removal of serviceable parts.

Clearance to Combustibles - Required clearance to combustible material.

Minimum Operation Clearance - Required clearance for proper unit operation.

OUTDOOR SOUND DATA

Unit Model No.	Octave Band Linear Sound Power Levels dBA, re 10⁻¹² Watts Center Frequency - Hz							¹,² Sound Rating Number (SRN) dBA
	125	250	500	1000	2000	4000	8000	
036	60	65	69	68	63	58	51	73
048	64	67	73	71	66	59	52	76
060	66	69	74	74	68	62	55	78
074	67	72	76	76	70	64	58	80

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

¹ Sound Rating Number according to ANSI/AHRI Standard 270-2008. "SRN" is the overall A-Weighted Sound Power Level, (LWA), dB (100 Hz to 10,000 Hz).

² Sound Rating Number according to ANSI/AHRI Standard 370-2011. "SRN" is the overall A-Weighted Sound Power Level, (LWA), dB (100 Hz to 10,000 Hz).

THIS PAGE INTENTIONALLY BLANK

THIS PAGE INTENTIONALLY BLANK

WEIGHT DATA

Model Number	Net		Shipping	
	Ibs.	kg	Ibs.	kg
036 Base Unit	710	322	752	341
036 Max. Unit	902	409	962	436
048 Base Unit	735	333	776	352
048 Max. Unit	949	430	1009	457
060 Base Unit	759	344	801	363
060 Max. Unit	973	441	1033	469
074 Base Unit	759	344	801	363
074 Max. Unit	973	441	1033	469

OPTIONS / ACCESSORIES

	Shipping Weight		
	Ibs.	kg.	
ECONOMIZER / OUTDOOR AIR / EXHAUST			
Economizer			
Economizer, Includes Outdoor Air Hood and Barometric Relief Dampers with Hood	131	59	
Outdoor Air Dampers			
Motorized	40	18	
Manual	30	14	
Power Exhaust			
Standard Static	35	17	
GAS HEAT			
Medium Heat (adder over standard heat)	8	4	
High Heat (adder over standard heat)	19	9	
PACKAGING			
LTL Packaging (less than truck load)	60	27	
ROOF CURBS			
Hybrid Roof Curbs, Downflow			
8 in. height	C1CURB70A-1	50	23
14 in. height	C1CURB71A-1	70	32
18 in. height	C1CURB72A-1	80	36
24 in. height	C1CURB73A-1	100	45
Adjustable Pitch Curb, Downflow			
14 in. height		113	51
CEILING DIFFUSERS			
Step-Down	RTD11-95S	118	54
Flush	FD11-95S	118	54
Transitions	T1TRAN20N-1	21	10

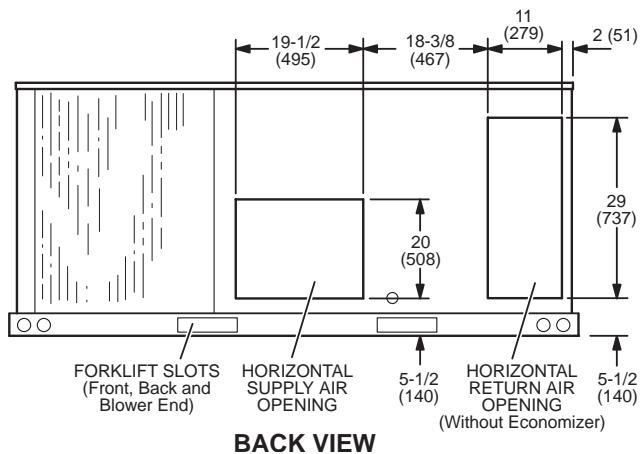
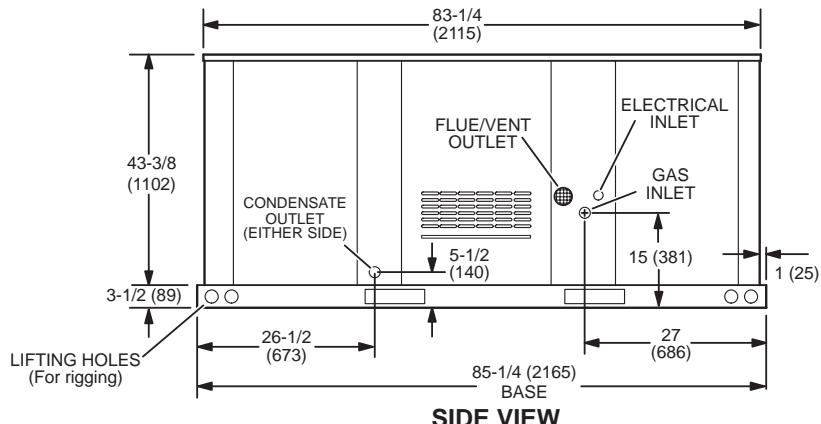
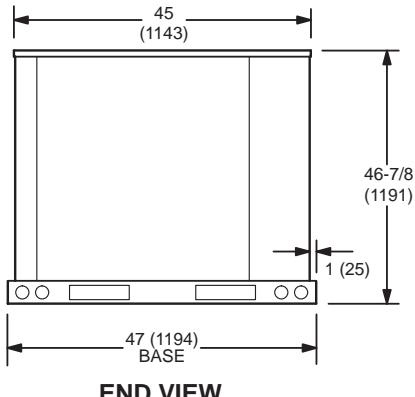
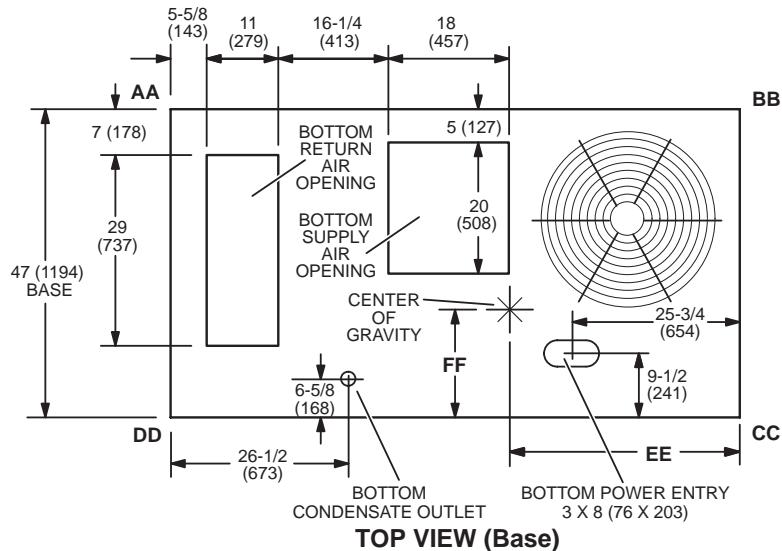
DIMENSIONS - UNIT - INCHES (MM)

CORNER WEIGHTS

Model No.	AA		BB		CC		DD		EE		FF	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm
LGH036U Base Unit	134	61	171	78	221	100	174	79	38	953	21	521
LGH036U Max. Unit	184	83	218	99	282	128	238	108	39	991	21	521
LGH048U Base Unit	134	61	179	81	232	105	173	78	37	927	21	521
LGH048U Max. Unit	183	83	218	99	294	133	237	108	38	965	21	521
LGH060U Base Unit	137	62	183	83	237	108	177	80	37	927	21	521
LGH060U Max. Unit	187	85	233	106	301	137	242	110	38	965	21	521
LGH074U Base Unit	137	62	183	83	237	108	177	80	37	927	21	521
LGH074U Max. Unit	187	85	233	106	301	137	242	110	38	965	21	521

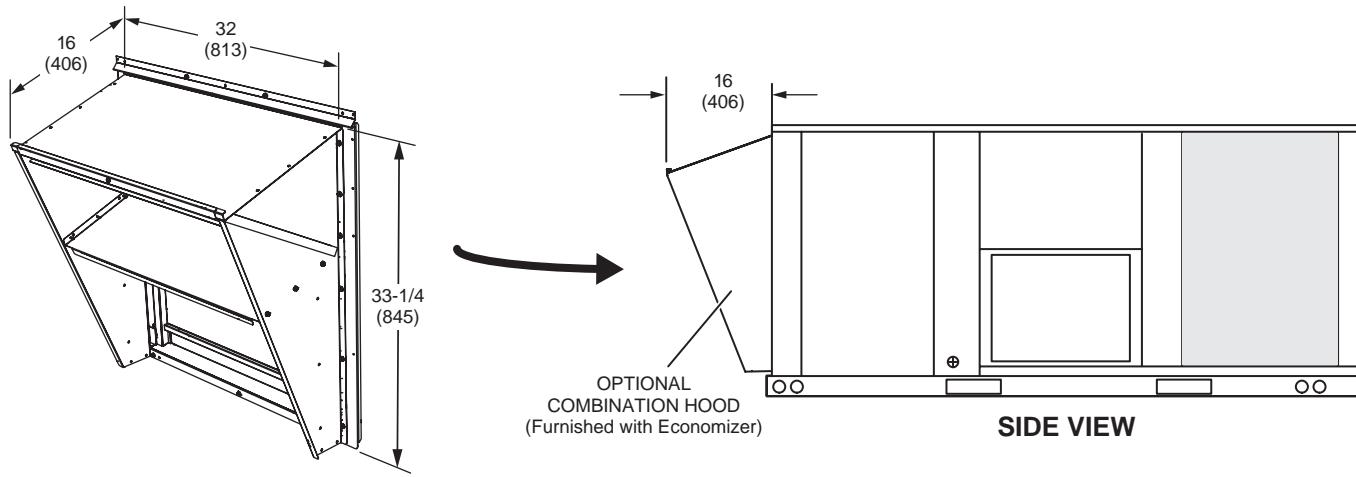
Base Unit - The unit with NO INTERNAL OPTIONS.

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.



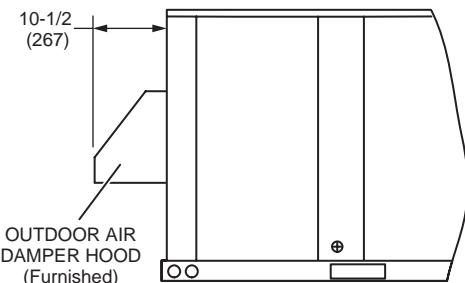
DIMENSIONS - ACCESSORIES - INCHES (MM)

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

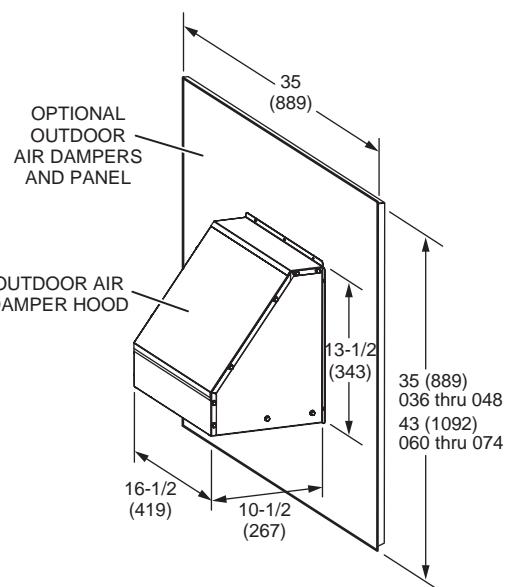


OUTDOOR AIR DAMPER HOOD DETAIL (Downflow or Horizontal Applications)

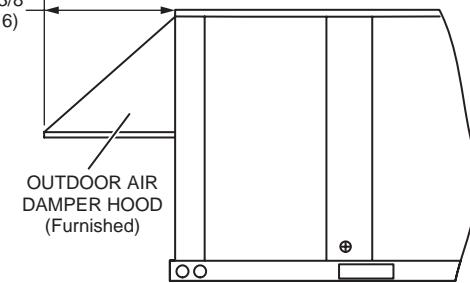
MANUAL OUTDOOR AIR HOOD



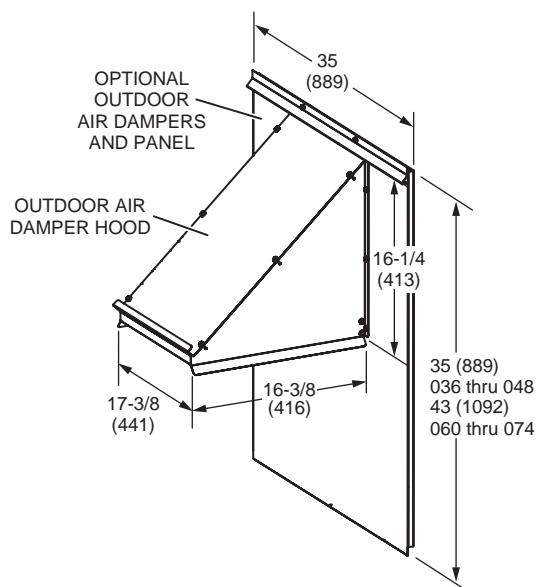
SIDE VIEW



MOTORIZED OUTDOOR AIR HOOD

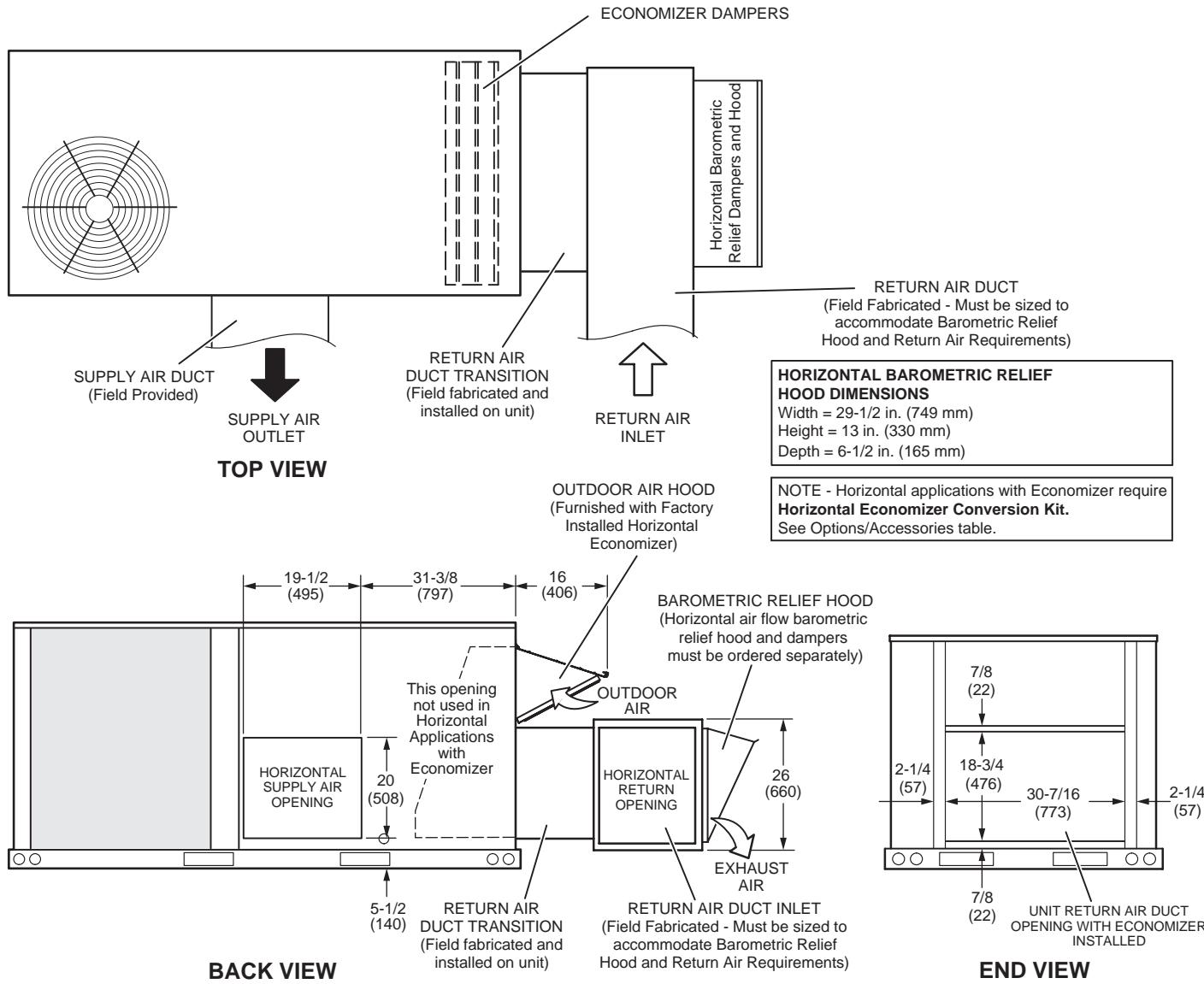


SIDE VIEW



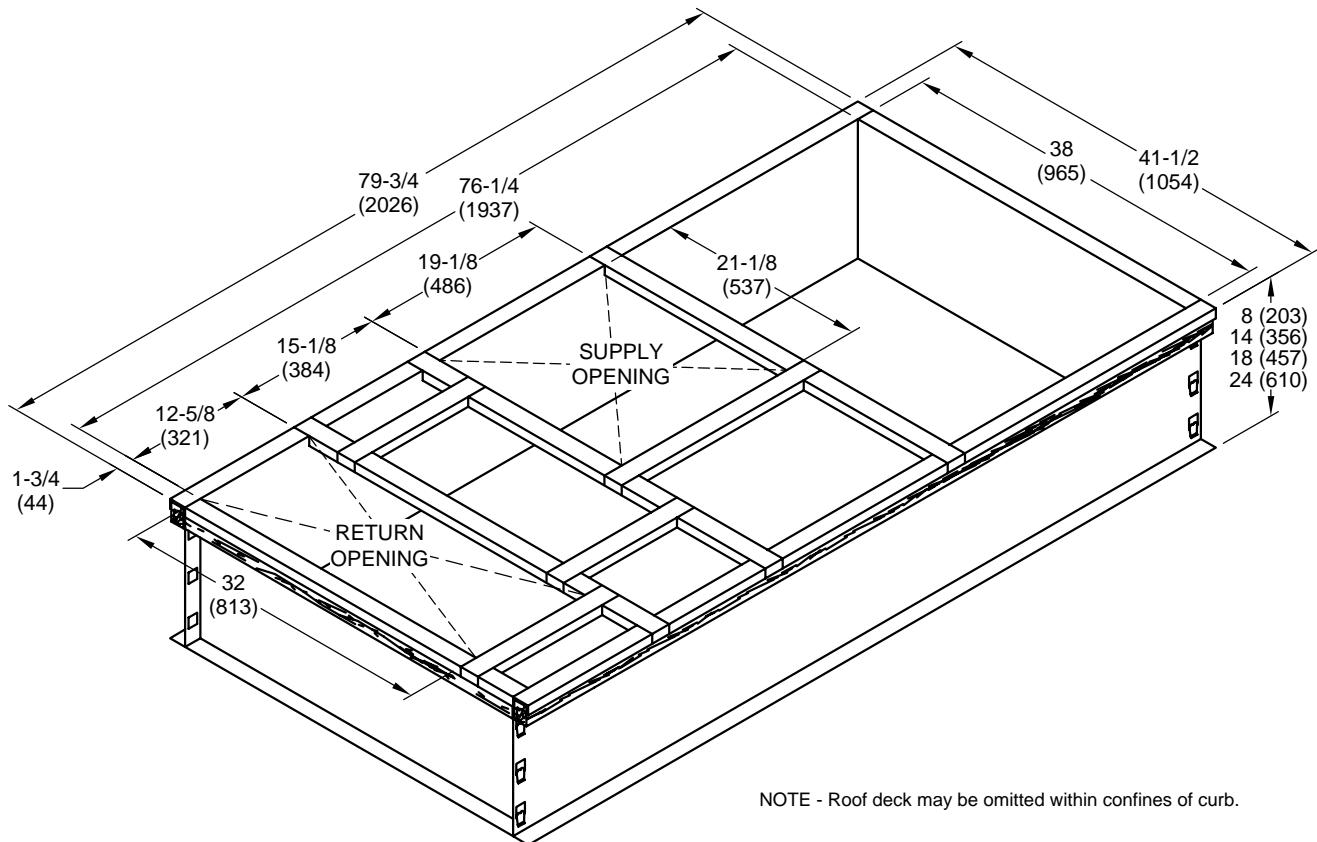
DIMENSIONS - ACCESSORIES - INCHES (MM)

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

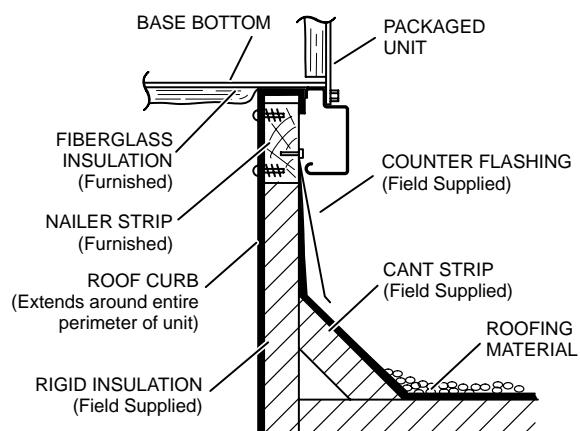


DIMENSIONS - ACCESSORIES - INCHES (MM)

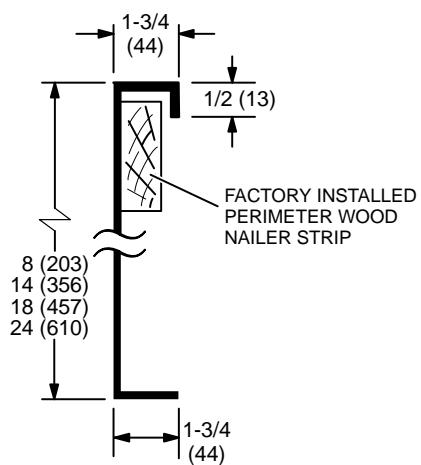
HYBRID ROOF CURBS - DOUBLE DUCT OPENING



TYPICAL FLASHING DETAIL FOR ROOF CURB

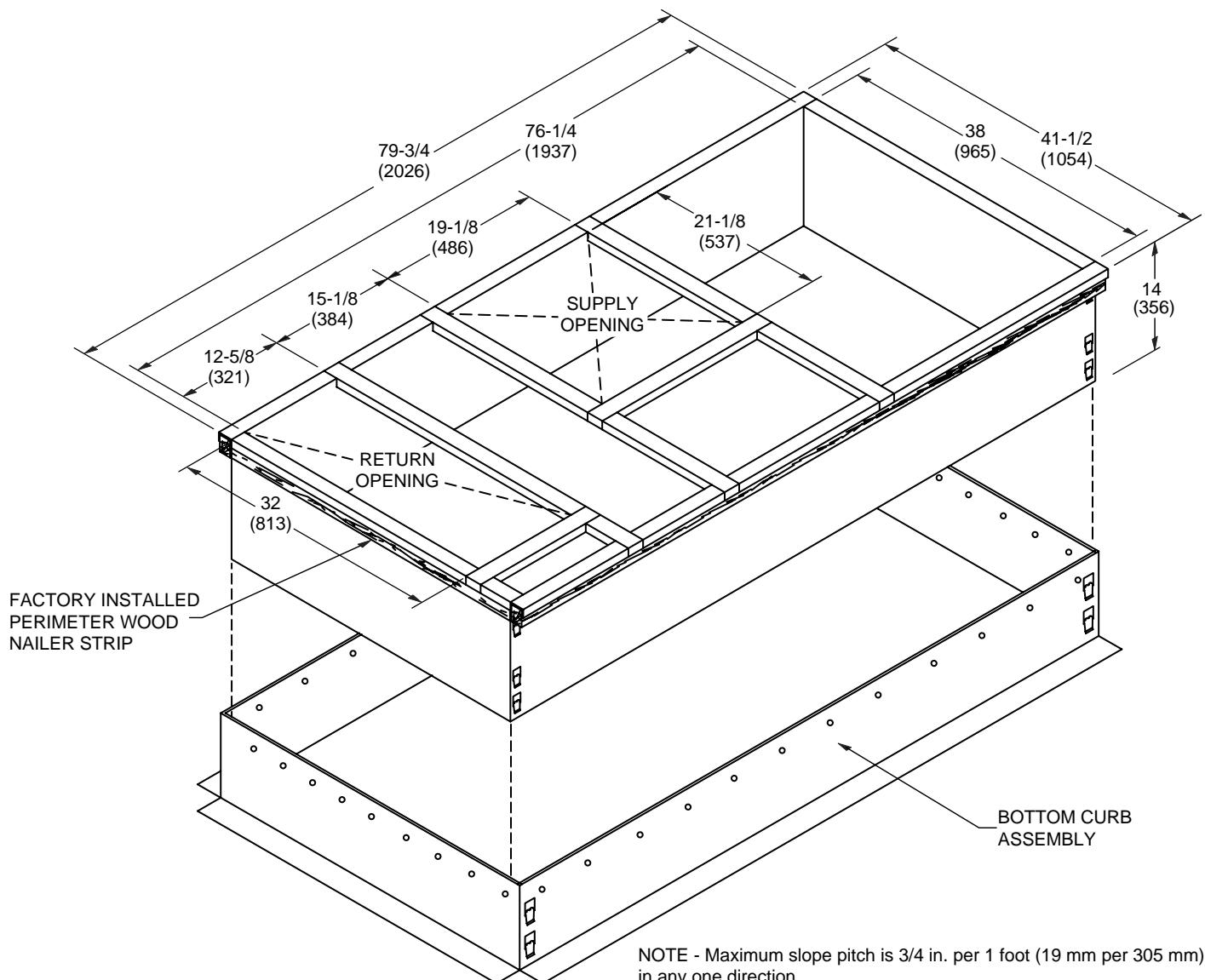


DETAIL ROOF CURB

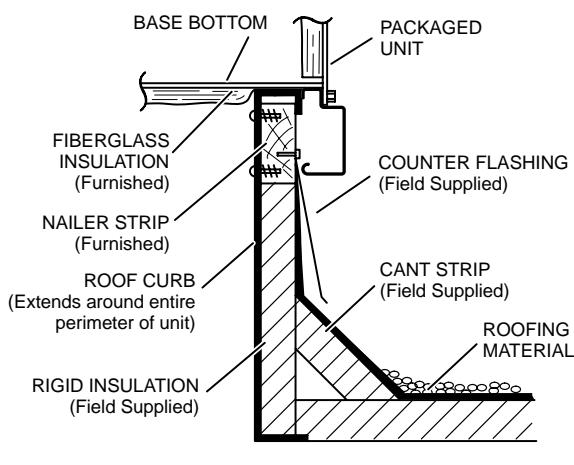


DIMENSIONS - ACCESSORIES - INCHES (MM)

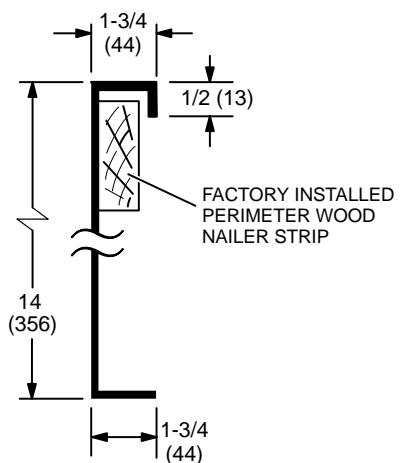
ADJUSTABLE PITCH CURBS - DOUBLE DUCT OPENING



TYPICAL FLASHING DETAIL FOR ROOF CURB

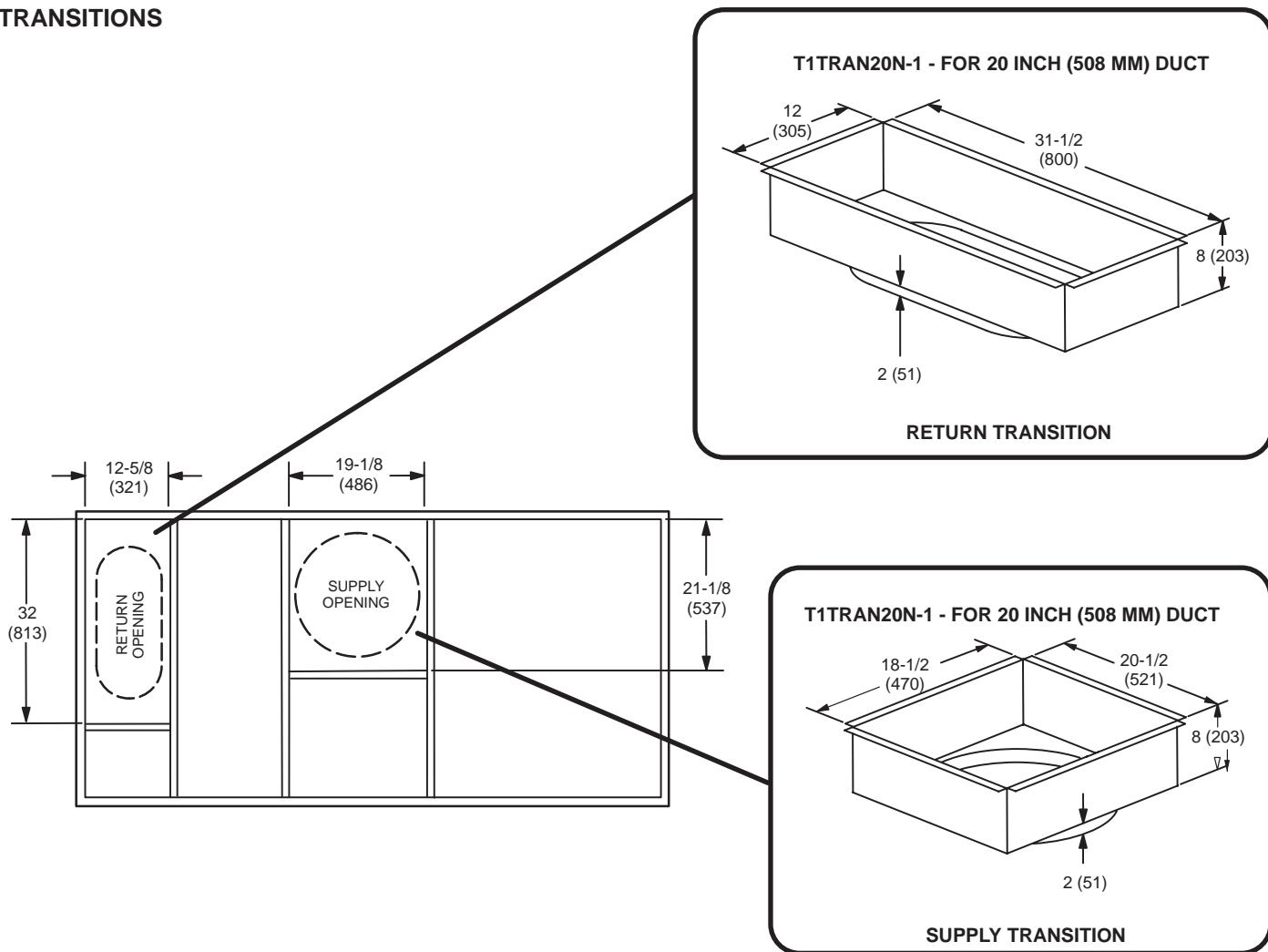


DETAIL ROOF CURB



DIMENSIONS - ACCESSORIES - INCHES (MM)

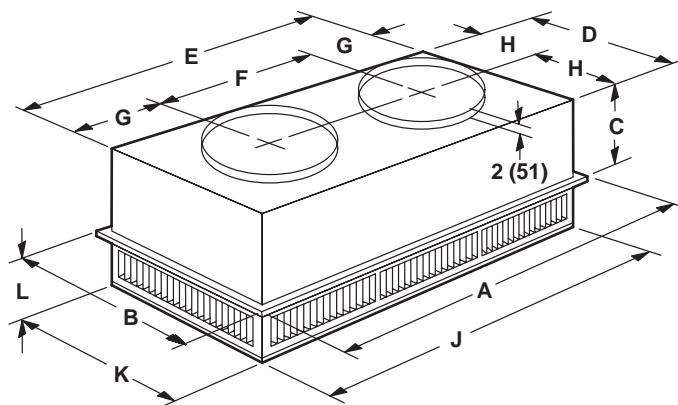
TRANSITIONS



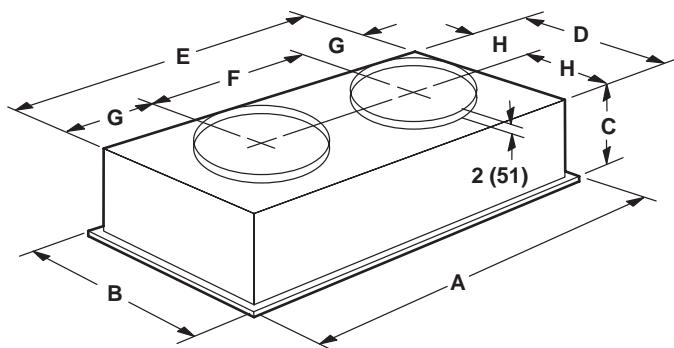
DIMENSIONS - ACCESSORIES - INCHES (MM)

COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER



FLUSH CEILING DIFFUSER



Model Number		RTD11-95S
A	in.	47-5/8
	mm	1159
B	in.	29-5/8
	mm	752
C	in.	14-3/8
	mm	365
D	in.	27-1/2
	mm	699
E	in.	45-1/2
	mm	1158
F	in.	22-1/2
	mm	572
G	in.	11-1/2
	mm	292
H	in.	13-3/4
	mm	349
J	in.	45-1/2
	mm	1156
K	in.	27-1/2
	mm	699
L	in.	8-1/8
	mm	206
Duct Size	in.	20 round
	mm	508 round

Model Number		FD11-95S
A	in.	47-5/8
	mm	1159
B	in.	29-5/8
	mm	752
C	in.	16-5/8
	mm	422
D	in.	27
	mm	686
E	in.	45
	mm	1143
F	in.	22-1/2
	mm	572
G	in.	11-1/4
	mm	286
H	in.	13-1/2
	mm	343
Duct Size	in.	20 round
	mm	508 round

REVISIONS

Section	Description
Dimensions - Accessories	Updated drawings to show new Economizer Combination Outdoor Air Hood. Updated drawings to show horizontal applications with Economizer and Low Profile Barometric Relief Dampers.
Optional Accessories	Removed Barometric Relief Dampers with Exhaust Hood option (74W38). Added Barometric Relief Dampers for Power Exhaust Kit. Added Horizontal Low Profile Barometric Relief Dampers with Exhaust Hood. Removed Standard Efficiency Economizer option. Added SCCR factory option.



Intertek



Visit us at www.allied-commercial.com

For the latest technical information, visit us at www.allied-commercial.com

Contact us at 1-800-448-5872

NOTE - Due to our ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability.
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.