



74, 88 and 105 kW (21, 25 and 30 Ton)
Net Cooling Capacity - 66.5 to 91.7 kW (227 000 to 313 000 Btuh)
Optional Electric Heat - 20.8 to 83.4 kW

MODEL NUMBER IDENTIFICATION

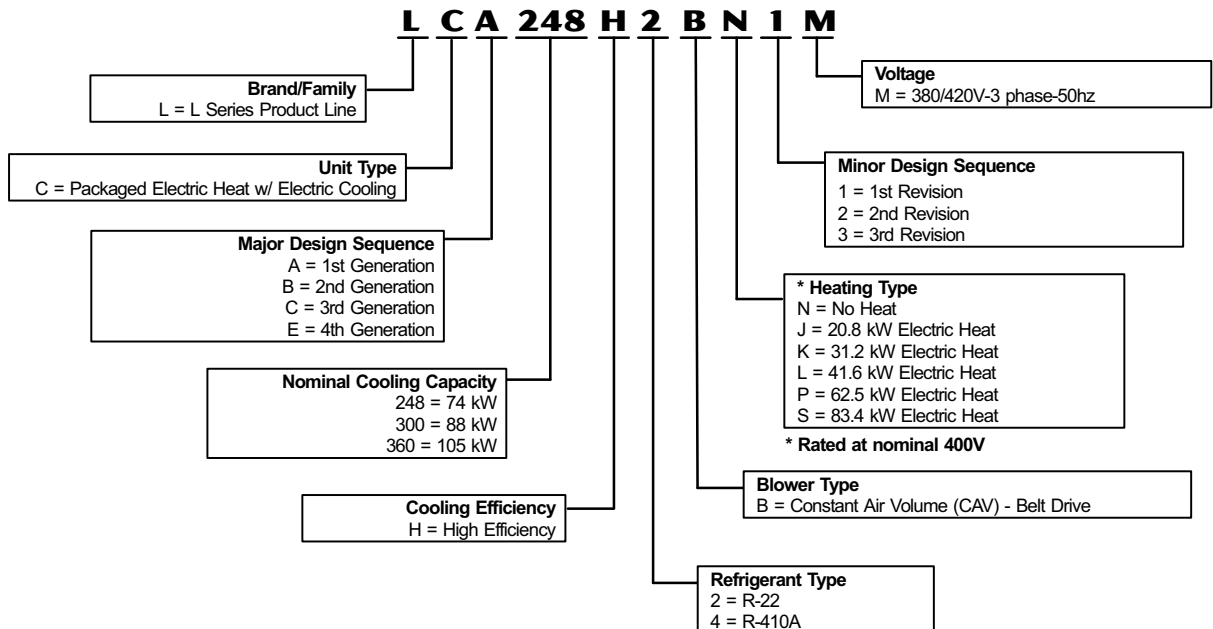


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FEATURES AND BENEFITS

APPROVALS

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 and Refrigeration Institute (ARI) Standard 340/360-2000 while operating at rated voltage and air volumes.

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

COOLING SYSTEM

Designed to maximize sensible and latent cooling performance at design conditions.

System can operate from -17°C to 52°C (0°F to 125°F) without any additional controls.

1 Compressors

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

Compressor Crankcase Heaters

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

2 Thermal Expansion Valves

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

3 Filter/Driers

High capacity filter/driers protect the system from dirt and moisture.

4 High Pressure Switches

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

Low Pressure Switches

Protects the compressor from low pressure conditions such as low refrigerant charge, or low/no air flow. Automatic reset

Freezestats

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

5 Coil Construction

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

Evaporator Coil

Cross row circuiting with rifled copper tubing optimizes both sensible and latent cooling capacity. Low fin per inch count minimizes air pressure drop. Constant air volume (CAV) models have face-split evaporator coils.

Condenser Coil

Angled, slab design helps protect coil from possible contact or hail damage.

Condensate Drain Pan

Drain connection extends outside unit.

Painted, galvanized pan with positive slope.

Stainless steel drain pan available as a factory installed option.

6 Outdoor Coil Fan Motors

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

Outdoor Coil Fan

Polyvinyl chloride (PVC) coated fan guard furnished.

Refrigerant Choice

Can be ordered with R-22 or R-410A refrigerant.

REQUIRED SELECTIONS

Cooling Capacity

Specify the nominal cooling capacity of the unit

Refrigerant Choice

Specify R-22 or R-410A refrigerant.

OPTIONS / ACCESSORIES

Factory Installed

Discharge Air Temperature Sensor

Sensor sends information to the IMC to cycle up to 4 stages of heating or cooling to maintain the discharge air setpoints for heating or cooling. Optional for CAV units (single zone or bypass zoning control). Sensor is shipped with the unit for remote field installation in the supply duct.

7 Service Valves

Fully serviceable brass valves installed in discharge & liquid lines.

Stainless Steel Condensate Drain Pan

Factory installed

Factory or Field Installed

Condensate Drain Trap

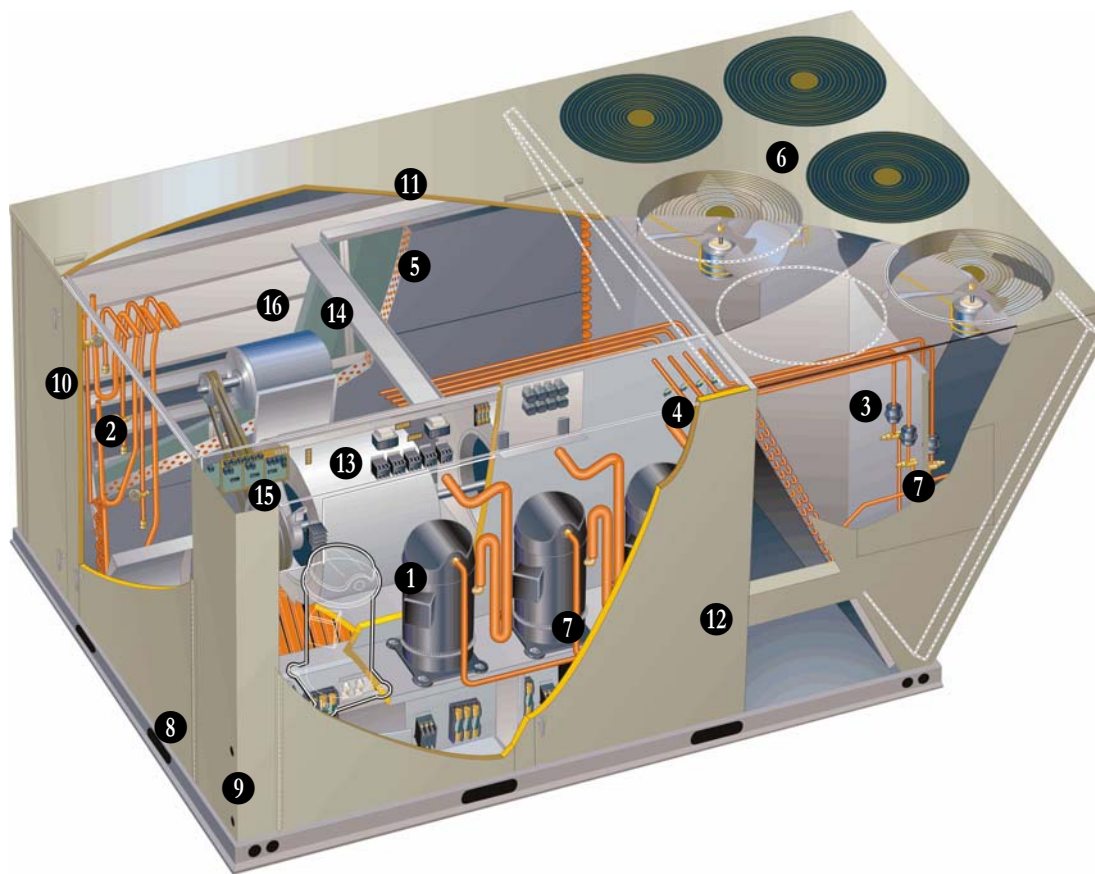
Field installed only, may be factory enclosed to ship with unit. Available in copper or polyvinyl chloride (PVC).

Field Installed

Drain Pan Overflow Switch

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

FEATURES AND BENEFITS



ELECTRICAL

OPTIONS/ACCESSORIES

Factory or Field Installed

Electric Heat

Helix wound nichrome elements, time delay for element staging, individual element limit controls, wiring harness, may be two-stage controlled. When electric heat is factory installed, all required components are included. The following must be ordered extra when field installed electric heat is used: Unit Fuse Block and Electric Heat Control Module (provides two-stage control of electric heat for 31.2 kW or more of electric heat). See Electrical / Electric Heat Data tables for ordering information, Pages 19-21.

CABINET

Construction

- 8 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 fork slots. Raised edges around duct and power entry openings in the bottom of the unit provide additional protection against water entering the building.

Air-Flow Choice

Units are available in down-flow (vertical) or horizontal return air flow configuration.

Horizontal air flow requires Horizontal Roof Curb.

Horizontal Return Air Panel Kit is also required if converting a down-flow configured unit to horizontal air flow.

- 9 **Power Entry**

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

- 10 **Exterior Panels**

Constructed of heavy-gauge, galvanized steel with a two-layer enamel paint finish.

- 11 **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.

- 12 **Access Panels**

Hinged access panels are provided for 2 compressor / controls / heating areas, blower access and air filter/economizer access.

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

FEATURES / BENEFITS

CABINET - CONTINUED

REQUIRED SELECTIONS

Air Flow Configuration

Specify horizontal or down-flow.

OPTIONS / ACCESSORIES

Factory Installed

Corrosion Protection

Polymeric epoxy coating that is deposited by electrical transport (electrophoresis), using a process known as electrocoat (e-coat). Available for enhanced coil corrosion protection. Factory installed on the condenser coil, evaporator coil, or both.

Field Installed

Coil Guards

Painted, galvanized steel wire guards to protect outdoor coil. Not used with Hail Guards.

Grille Guards

Protects the space between outdoor coils and main cabinet.

Hail Guards

Constructed of heavy gauge steel, painted to match cabinet, helps protect outdoor coils from hail damage. Not used with Coil Guards.

Horizontal Return Air Panel Kit

Required for horizontal applications with Horizontal Roof Curb, contains panel with return air opening for field replacement of existing unit panel and panel to cover bottom return air opening in unit, see dimension drawings.

13 BLOWER

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

Motor

Overload protected, equipped with ball bearings.

Belt drive motors are offered in several different sizes to maximize air performance.

Supply Air Blower

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

Belt drive motors with adjustable pulley for speed change.

Blower assembly slides out of unit for servicing.

Grease fittings furnished.

REQUIRED SELECTIONS

Supply Air Blower

Order blower motor required (See Blower Data Table for specifications).

Order one drive kit, see Drive Kit Specifications Table.

INDOOR AIR QUALITY

14 Air Filters

Disposable 51 mm (2 inch) filters furnished as standard.

OPTIONS / ACCESSORIES

Factory or Field Installed

Healthy Climate® High Efficiency Air Filters

Disposable MERV 11 (Minimum Efficiency Reporting Value based on ASHRAE 52.2) efficiency 51 mm (2 inch) pleated filters.

Field Installed

Healthy Climate® High Efficiency Air Filters

Disposable MERV 15 (Minimum Efficiency Reporting Value based on ASHRAE 52.2) efficiency 51 mm (2 inch) pleated filters.

Indoor Air Quality (CO₂) Sensor

Monitors CO₂ levels, reports to IMC board which adjusts economizer dampers as needed.

FEATURES / BENEFITS

SERVICEABILITY

Designed to streamline general maintenance and decrease troubleshooting time.

Diagnostics

IMC diagnostic codes pinpoint problems, minimizing troubleshooting time.

Marked & Color-Coded Wiring

All electrical wiring is color-coded and marked to identify which components it is connecting.

Electrical Plugs

Positive connection electrical plugs are used to connect common accessories or maintenance parts for easy removal or installation.

Tool-less, Hinged Access Panels

Large access panels are hinged and have quarter-turn, latching handles for quick and easy access to maintenance areas.

Filter access panels are hinged for easy access to the filters.

Blower Access

Blower assembly slides out of the unit for easy access.

Coil Cleaning

Slab condenser coils allow easier cleaning.

Standard Components

A large number of common maintenance parts are standard throughout the entire range of sizes, reducing the need to carry a lot of different parts to the job or in inventory.

Compressor Compartment

Compressors are located near the perimeter of the unit for easier access.

Compressors are isolated from the condenser air flow allowing system operation checks to be done without changing the air flow across the outdoor coils.

Thermal Expansion Valves

Thermal expansion valves are located near the perimeter of the unit for easier access.

Removable element head allows change out of element and bulb without removing the TXV.

Service Valves (optional)

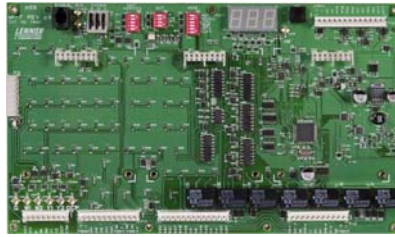
Optional factory installed liquid and discharge service valves allow refrigerant to be isolated to the high side for service work on the low side of the refrigeration system.

Electric Heaters (optional)

Optional electric heaters are accessed through the heating access panel. Heaters can be removed if necessary.

CONTROLS

15 INTELLIGENT UNIT CONTROLLER



The Integrated Modular Control (IMC) is a solid-state microprocessor-based control board that provides flexible control of all unit functions.

All control voltage is provided via a 24V (secondary) transformer with built-in circuit breaker protection.

Built-in functions include:

Blower On/Off Delay - Adjustable time delay between blower on and off.

Blower Air Delivery Options - Two air delivery options; single zone CAV and bypass zoning with bypass dampers.

Built-in Control Parameter Defaults - No programming required for standard CAV models.

Compressor Time-Off Delay - Adjustable time delay between compressor shutoff and start up.

DDC Compatible - Various third party DDC controllers can be factory or field installed. Refer to the Unit Controllers section for details.

Dirty Filter Switch Input - When a Dirty Filter Switch is installed, the IMC will signal when the indoor blower static pressure increases, indicating a dirty filter condition. Switch is optional and can be factory or field installed.

Discharge Air Temperature Control - The IMC will cycle up to 4 stages of heating or cooling to maintain the discharge air setpoints for heating or cooling. Optional for CAV units (single zone or bypass zoning control). Sensor is shipped with the unit for remote field installation in the supply duct.

Display/Sensor Readout - Displays control parameters, diagnostic codes, and sensor readings. The IMC unit controller displays temperature readings from return air, supply air, and outdoor air sensors that are furnished as standard on all L Series units. IMC will also display readings from optional sensors such as zone sensors, CO₂ sensors or relative humidity sensors.

Economizer Control Choice - The economizer is controlled by an add-on board to the IMC. The economizer control board has several choices for controlling the economizer. See Economizer / Outdoor Air / Exhaust Options.

Fresh Air Tempering - Provides heating and cooling as needed to maintain the supply air temperature within a comfort range, regardless of the thermostat demand. Sensor ships with unit but must be field installed in the supply air duct. Requires change to IMC (ECTO) parameter in the field to activate this mode of operation.

Extensive Unit Diagnostics - The IMC monitors all sensors and functions related to unit operation to provide critical information. The IMC will display detailed diagnostic information with over 90 diagnostic codes to pinpoint any problems and reduce troubleshooting time. All diagnostic codes are listed inside control access panel for easy reference.

Exhaust Fan Control Modes - Fans controlled by fresh air damper position (non-VFD power exhaust) or building static differential pressure transducer.

Permanent Diagnostic Code Storage - Maintains diagnostic codes through a power failure.

Field Changeable Control Parameters - Over 200 different control parameters allow customization of the unit operation by changing delays, cooling stages, deadbands, and setpoints.

FEATURES AND BENEFITS

CONTROLS - CONTINUED

INTELLIGENT UNIT CONTROLLER CONTINUED

Indoor Air Quality Input - The IMC is Demand Control Ventilation ready from the factory (optional field installed CO₂ sensor required). Two modes of operation are available: setpoint and proportional.

1 - Setpoint - Opens the economizer dampers to full position when CO₂ setpoint level is reached.

2 - Proportional - Opens the dampers at the first set point and gradually increases it as the CO₂ level increases until the second setpoint is reached.

Low Ambient Controls - Allows unit cooling operation down to -32°C (0°F).

Minimum Compressor Run Time - Ensures proper oil return to the compressor.

Network Capable - The IMC can be daisy chained to other L Series units using twisted pair wire.

Night Setback Mode - Adjusts setpoints, closes outdoor air dampers and operates the blower on demand, may be customized for special requirements.

Return Air Temperature Limit Control - Allows the user to override the demands based upon the return air temperature during either heating or cooling operation. Helps protect against abnormal operating conditions in the event of a room sensor or thermostat failure.

Safety Switch Input - Normally-closed digital input allows the IMC to respond to a external safety switch trip (phase protector, low voltage, etc.) shutting down unit operation.

Service Relay Output - Digital output can indicate a critical error has occurred to an external control device. Can also be configured to energize based on relative humidity, indoor air quality, outdoor air temperature or unit operation.

Smoke Alarm Mode - Control board has four choices for responding to a smoke alarm.

1 - Unit Off - unit will turn off.

2 - Positive Pressure - blower is energized, exhaust fan is de-energized, and the outdoor air dampers are opened.

3 - Negative Pressure - blower is energized, exhaust fan is energized, and the outdoor air dampers are closed.

4 - Purge - blower is energized, exhaust fan is energized, and the outdoor air dampers are opened.

Staging - 2 heat/2 cool. Capable of up to 4 heat/4 cool with zone sensor or third party DDC control system.

“Strike Three” Protection - Ends cooling or heating operation when any of the following occurs three times (adjustable) within a thermostat cycle: low pressure trip, high pressure trip, heat limit trip, or freeze-stat trip.

Gas Reheat - Control parameter option that allows simultaneous heating and cooling operation on CAV gas units for controlling humidity for process air applications such as supermarkets. Field installed relative humidity sensor or dehumidistat can be used.

On-Demand Dehumidification - Monitors and controls condenser hot gas bypass operation with Humiditrol option. Prioritizes heat and cool demand with dehumidification demand. Reheat demand can be enabled by digital input or a field installed relative humidity sensor can be used.

Thermostat Bounce Delay - Protects compressor from short cycling when mechanical thermostat is used.

Warm-up Mode Delay - Adjustable time that the economizer dampers are kept in the closed position during morning warm-up.

On-Board User Interface - Push-button, DIP switches used with three-digit display readout for field adjustment of control parameters. LED indicators for each thermostat input.

PC Interface - PC with optional Unit Controller software may be used to field or remotely adjust parameters, read alarms, or display unit status.

Zone Sensor Operation - Controls zone temperature with up to 4 stages of heating or cooling with optional zone sensor.

OPTIONS / ACCESSORIES

Factory or Field Installed

Blower Proving Switch

Monitors blower operation, shuts down unit if blower fails. Factory installed.

Dirty Filter Switch

Senses static pressure increase indicating dirty filter condition.

Fresh Air Tempering

Provides heating and cooling as needed to maintain the supply air temperature within a comfort range, regardless of the thermostat demand. Sensor ships with unit but must be field installed in the supply air duct. Requires change to Integrated Modular Control (IMC) (ECTO) parameter in the field to activate this mode of operation.

Smoke Detector

Photoelectric type, installed in supply air section or return air section or both sections

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. See Page 23.

Thermostats

Control system and thermostat options. Aftermarket unit controller options. See See Page 27.

OPTIONS / ACCESSORIES

ECONOMIZER/OUTDOOR AIR/EXHAUST

Factory or Field Installed

16 Economizer

Parallel gear driven action return air and outdoor air dampers, plug-in connections to unit, nylon bearings, neoprene seals, 24-volt fully modulating spring return motor, adjustable minimum damper position, damper assembly slides in unit, outdoor air hood must be ordered separately, optional down-flow barometric relief dampers available, choice of economizer controls. The IMC add-on board for economizer control is included with the economizer. Control board has four choices for controlling the economizer (DIP switch selections).

1 - Differential Sensible Control

- Factory setting. Uses the outdoor air and return air sensors that are furnished with the unit. The IMC compares the 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.

2 - Global Control - The IMC 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.

3 - Single Enthalpy Control - Outdoor air enthalpy sensor enables economizer if the outdoor enthalpy is less than the setpoint of the board. Factory installed.

4 - Differential Enthalpy Control - Two solid-state enthalpy sensors allow the economizer control board to select between outdoor air or return air, whichever has lower enthalpy. Factory installed.

Outdoor Air Dampers (Manual or Automatic)

Linked mechanical dampers, 0 to 25% (fixed) outdoor air adjustable, installs in unit, outdoor air hood must be ordered separately. Motorized model features fully modulating spring return damper motor with plug-in connection. Manual model features a slide damper. Minimum mixed air temperature in heating mode -1°C (30°F). Maximum mixed air temperature in cooling mode: 32°C (90°F).

Outdoor Air Hood

Required with LAREMD Economizer, LAOAD and LAOADM Outdoor Air Damper Sections, cleanable aluminum mesh fresh air filters furnished.

Down-Flow Barometric Relief Dampers

Allows relief of excess air, aluminum blade dampers prevent blow back and outdoor air infiltration during off cycle, bird screen furnished. Dampers are required with Standard Static Power Exhaust Fans. Down-Flow Barometric Relief Damper Hood is available and must be ordered extra.

Field Installed

Down-Flow Barometric Relief Damper Hood

Field installed only. Use with Barometric Relief Dampers.

Horizontal Barometric Relief Dampers

Aluminum blade dampers prevent blow back and outdoor air infiltration during off cycle, field installed in return air duct, bird screen furnished.

Factory or Field Installed

Standard Static Power Exhaust Fans

Three, 0.22 kW (1/3 hp) motors with 508 mm (20 in.), five blade propeller-type fans with a total power input of 1125 Watts and a total air volume of 6040 L/s (12,800 cfm) at 0 Pa (0 in. w.g.).

Motor is inherently protected and enclosed for maximum protection from weather, dust and corrosion. Installs internal to unit for down-flow applications only with economizer option, provides exhaust air pressure relief, interlocked to run when return air dampers are closed and supply air blower is operating, fan runs when outdoor air dampers are 50% open (adjustable), motor is overload protected, steel cabinet and hood painted to match unit, requires optional Down-flow Economizer Barometric Relief Dampers.

See Standard Static Power Exhaust Blower Tables.

OPTIONS / ACCESSORIES

CEILING DIFFUSERS

Field Installed

Ceiling Diffusers (Flush or Step-Down)

Aluminum grilles, large center grille, insulated diffuser box with flanges, hanging rings furnished, interior transition (even air flow), internally sealed (prevents recirculation), 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.

ROOF CURBS

Field Installed

Nailer strip furnished, mates to unit, shipped knocked down.

Standard Down-Flow

Available in 356 and 610 mm (14 and 24 in.) heights

Horizontal

Converts unit from down-flow to horizontal (side) air flow, return air is on unit, supply air is on curb, see dimension drawings. Curbs for rooftop applications meet National Roofing Code requirements. Requires Horizontal Return Air Panel. Available in 762 and 1041 mm (30 and 40 in.) heights. Optional Insulation Kit is available to help prevent sweating.

OPTIONS / ACCESSORIES

Item	Catalog No.	248H	300H	360H	
COOLING SYSTEM					
Condensate Drain Trap	Polyvinyl Chloride (PVC) - C1TRAP20AD2	76W26	⊗	⊗	⊗
	Copper - C1TRAP10AD2	76W27	⊗	⊗	⊗
Corrosion Protection	Factory	○	○	○	
Drain Pan Overflow Switch	60W18	x	x	x	
Efficiency	High Factory	○	○	○	
Refrigerant Type	R-22 Factory	○	○	○	
	R-410A Factory	○	○	○	
Service Valves	Factory	○	○	○	
Stainless Steel Condensate Drain Pan	Factory	○	○	○	
BLOWER - SUPPLY AIR					
Constant Air Volume	3.7 kW (5 hp) Factory	○	○	○	
	5.5 kW (7.5 hp) Factory	○	○	○	
	7.5 kW (10 hp) Factory	○	○	○	
CABINET					
Coil Guards	43W47	x	x	x	
Grille Guards	86K30	x	x	x	
Hail Guards	43W46	x	x	x	
Horizontal Return Air Panel Kit	38K48	x	x	x	
CONTROLS					
Blower Proving Switch	C0SWCH01AE1- 30K49	⊗	⊗	⊗	
Dirty Filter Switch	C0SWCH00AE1- 30K48	⊗	⊗	⊗	
Discharge Air Temperature Sensor	Factory	○	○	○	
Fresh Air Tempering	C0SND03AE-1 45L78	⊗	⊗	⊗	
Smoke Detector	Supply - LTASASDK10/36 70K87	⊗	⊗	⊗	
	Return - LTARASDK10/30 70K86	⊗	⊗	⊗	
INDOOR AIR QUALITY					
Air Filters					
Healthy Climate® High Efficiency Air Filters 508 x 508 x 51 mm (20 x 20 x 2 in.) - order 12 per unit	MERV 11 - C1FTLR20D-1- 97L88	⊗	⊗	⊗	
	MERV 15 - C1FLTR50D-1- 28W06	x	x	x	
Indoor Air Quality Sensors					
CO ₂ Sensor - white case w/ display	C0SNSR50AE1L 77N39	x	x	x	
CO ₂ Sensor - white case, no display	C0SNSR50AE1L 87N53	x	x	x	
CO ₂ Sensor - black case w/ display	C0SNSR50AE1L 87N52	x	x	x	
CO ₂ Sensor - black case, no display	C0SNSR50AE1L 87N54	x	x	x	
CO ₂ Sensor Duct Mounting Kit	C0MISC19AE1- 85L43	x	x	x	
Aspiration Box for duct mounting Sensor	C0MISC16AE1- 90N43	x	x	x	
Handheld CO ₂ Monitor	LTAIAQSHM03/36 70N93	x	x	x	
ELECTRICAL					
Voltage - 50 hz	380/420V - 3 phase Factory	○	○	○	

NOTE - The catalog and model numbers that appear here are for ordering field installed accessories only.

⊗ - Field Installed or Configure to Order (factory installed)

○ - Configure to Order (Factory Installed)

X - Field Installed.

OPTIONS / ACCESSORIES

Item	Catalog No.	248H	300H	360H	
ELECTRIC HEAT					
20.8 kW	Order one each - EHA360-15 EHA360S-15	99J24 99J25	⊗	⊗	⊗
31.2 kW	Order two each - EHA360-22.5	99J29	⊗	⊗	⊗
41.6 kW	Order two each - EHA150-30	99J08	⊗	⊗	⊗
62.5 kW	Order two each - EHA150-45	99J11	⊗	⊗	⊗
83.4 kW	Order two each - EHA150-60	99J14	⊗	⊗	⊗
ELECTRIC HEAT ACCESSORIES/OPTIONS - See Electrical / Electric Heat Tables for selection					
LTB2 Terminal Block	175 Amp - 30K75	30K75	⊗	⊗	⊗
Electric Heat Control Module	380/420V-3ph	15K92	⊗	⊗	⊗
Unit Fuse Block - See Electrical / Electric Heat Tables for selection			⊗	⊗	⊗
ECONOMIZER					
Economizer					
Economizer (Order Hood Separately)	LAREMD30/36	33K72	⊗	⊗	⊗
Economizer Controls					
Differential Enthalpy	C1SNSR07AE	86M32	⊗	⊗	⊗
Single Enthalpy	C1SNSR06AE	86M33	⊗	⊗	⊗
Global, Enthalpy	Sensor Field Provided	Factory	○	○	○
Differential Sensible	Furnished	Factory	○	○	○
Outdoor Air CFM Control	C0SNSR23DE1	98M61	⊗	⊗	⊗
Barometric Relief					
Down-Flow Barometric Relief Dampers (Order Hood Separately)	LAGED30/36	33K77	⊗	⊗	⊗
Hood for Down-Flow LAGED	LAGEH30H/36	88K81	⊗	⊗	⊗
Horizontal Barometric Relief Dampers (Hood Furnished)	LAGEDH30/36	33K78	⊗	⊗	⊗
Power Exhaust Fans (Down-Flow Applications Only)					
Standard Static	380/420V - LAPEF30/36	33K74	⊗	⊗	⊗
OUTDOOR AIR					
Outdoor Air Dampers					
Damper Section (down-flow) Motorized (Order Hood Separately)	LAOADM30/36	33K70	⊗	⊗	⊗
Damper Section (down-flow) - Manual (Order Hood Separately)	LAOAD30/36	33K69	⊗	⊗	⊗
Outdoor Air Hoods					
Outdoor Air Hood (down-flow) Number and size of filters - (5) 406 x 635 x 25 mm (16 x 20 x 5 in.)		31W45	⊗	⊗	⊗
ROOF CURBS - STANDARD					
Down-Flow					
356 mm (14 in.) height	LARMF18/36-14	16K87	x	x	x
610 mm (24 in.) height	LARMF18/36-24	16K88	x	x	x
Horizontal					
762 mm (30 in.) height - Rooftop applications	LARMFH30/36-30	33K79	x	x	x
1041 mm (40 in.) height - Slab applications	LARMFH30/36-41	73K33	x	x	x
Horizontal Return Air Panel Kit		38K48	x	x	x
Insulation Kits					
for LARMFH30/36-30		73K33	x	x	x
for LARMFH30/36-41		73K35	x	x	x
CEILING DIFFUSERS					
Step-Down - Order one	LARTD30/36	35K25	x	x	x
Flush - Order one	LAFD30/36	35K24	x	x	x
Transitions (Supply and Return) Order one	LASRT30/36	33K80	x	x	x

NOTE - The catalog and model numbers that appear here are for ordering field installed accessories only.

⊗ - Field Installed or Configure to Order (factory installed)

○ - Configure to Order (Factory Installed)

SPECIFICATIONS

74 kW

General Data		74 kW	74 kW
Nominal kW		74 kW	74 kW
Model		LCA248H2B	LCA248H4B
Efficiency Type		High	High
Blower Type		Constant Air Volume (CAV)	Constant Air Volume (CAV)
Cooling Performance	Gross Cooling Capacity - kW (Btuh)	68.8 (234 800)	73.4 (250 500)
	¹ Net Cooling Capacity - kW (Btuh)	66.5 (227 000)	71.2 (243 000)
	Rated Air Flow - L/s (cfm)	3965 (8400)	3965 (8400)
	Total Unit Power (kW)	18.4	20.2
	¹ EER	12.3	12.0
	Coefficient of Performance (input/output)	3.6	3.5
	² Integrated Part Load Value (IPLV)	12.3	12.7
Refrigerant Type		R-22	R-410A
Refrigerant Charge Furnished	Circuit 1	5.67 kg (12 lbs. 8 oz.)	5.90 kg (13 lbs. 0 oz.)
	Circuit 2	5.67 kg (12 lbs. 8 oz.)	5.90 kg (13 lbs. 0 oz.)
	Circuit 3	5.67 kg (12 lbs. 8 oz.)	5.90 kg (13 lbs. 0 oz.)
	Circuit 4	5.67 kg (12 lbs. 8 oz.)	5.90 kg (13 lbs. 0 oz.)
Compressor Type (no.)		Scroll (4)	Scroll (4)
Outdoor Coils	Net face area - m ² (sq. ft.) total	6.6 (70.6)	6.6 (70.6)
	Tube diameter - mm (in.)	9.5 (3/8)	9.5 (3/8)
	Number of rows	2	2
	Fins per m (inch)	787 (20)	787 (20)
Outdoor Coil Fans	Motor output - W (hp)	(6) 249 (1/3)	(6) 249 (1/3)
	Motor rev/min	895	895
	Total Motor watts	1910	1910
	Diameter - mm (in.)	(6) 610 (24)	(6) 610 (24)
	Number of blades	3	3
	Total Air volume - L/s (cfm)	8445 (17 900)	8445 (17 900)
Indoor Coils	Net face area - m ² (sq. ft.) total	3.1 (33.3)	3.1 (33.3)
	Tube diameter - mm (in.)	9.5 (3/8)	9.5 (3/8)
	Number of rows	3	3
	Fins per m (inch)	551 (14)	551 (14)
	Condensate Drain - number & size	(1) 1 in. NPT coupling	
Expansion device type		Balanced Port Thermostatic Expansion Valve, removeable power head	
³ Indoor Blower and Drive Selection	Nominal motor output	3.7 kW (5 hp) - 5.6 kW (7.5 hp) - 7.5 kW (10 hp)	
	Maximum usable motor output	4.3 kW (5.75 hp) - 6.4 kW (8.63 hp) - 8.6 kW (11.5 hp)	
	Motor - Drive kit	3.7 kW (5 hp) kit #1 - 550-675 rev/min kit #2 - 640-805 rev/min kit #6 - 465-590 rev/min 5.6 kW 7.5 hp kit #3 - 595-735 rev/min kit #4 - 640-805 rev/min 7.5 kW 10 hp kit #3 - 595-735 rev/min kit #5 - 640-870 rev/min	
Blower wheel nominal diameter x width - mm		(2) 457 x 381 (18 x 15)	
Filters	Type of filter	Disposable	
	Number and size - mm (in.)	(12) 508 x 508 x 51 (20 x 20 x 2)	
Electrical characteristics		380/420V - 50 hertz - 3 phase	

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.
¹ Rating test conditions are those included in Air-Conditioning and Refrigeration Institute (ARI) Standard 340/360; 35°C (95°F) outdoor air temperature and 27°C (80°F) db/19°C (67°F) wb entering evaporator air; minimum external duct static pressure while operating at rated voltage and air volumes.
² Integrated Part Load Value tested at 27°C (80°F) outdoor air temperature.
³ Using total air volume and system static pressure requirements determine from blower performance tables rev/min and motor size required. Maximum usable size of motors furnished is shown. If motors of comparable size are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

SPECIFICATIONS

88 kW

General Data		Nominal kW	88 kW	88 kW
		Model	LCC300H2B	LCC300H4B
		Efficiency Type	High	High
		Blower Type	Constant Air Volume (CAV)	Constant Air Volume (CAV)
Cooling Performance	Gross Cooling Capacity - kW (Btuh)		83.0 (283 200)	83.3 (284 600)
	¹ Net Cooling Capacity - kW (Btuh)		80.0 (273 000)	80.6 (275 000)
	Rated Air Flow - L/s (cfm)		10 000	10 000
	Total Unit Power (kW)		24.1	23.8
	¹ EER		11.3	11.5
	Coefficient of Performance (input/output)		3.2	3.4
	² Integrated Part Load Value (IPLV)		11.5	11.8
	Refrigerant Type		R-22	R-410A
Refrigerant Charge Furnished	Circuit 1		4.99 kg (11 lbs. 0 oz.)	5.9 kg (13 lbs. 0 oz.)
	Circuit 2		4.99 kg (11 lbs. 0 oz.)	5.9 kg (13 lbs. 0 oz.)
	Circuit 3		4.99 kg (11 lbs. 0 oz.)	5.9 kg (13 lbs. 0 oz.)
	Circuit 4		4.99 kg (11 lbs. 0 oz.)	5.9 kg (13 lbs. 0 oz.)
Compressor Type (no.)			Scroll (4)	Scroll (4)
Outdoor Coils	Net face area - m ² (sq. ft.) total		6.6 (70.6)	6.6 (70.6)
	Tube diameter - mm (in.)		9.5 (3/8)	9.5 (3/8)
	Number of rows		2	2
	Fins per m (inch)		787 (20)	787 (20)
Outdoor Coil Fans	Motor output - W (hp)		(6) 249 (1/3)	(6) 249 (1/3)
	Motor rev/min		895	895
	Total Motor watts		1910	1910
	Diameter - mm (in.)		(6) 610 (24)	(6) 610 (24)
	Number of blades		3	3
	Total Air volume - L/s (cfm)		8445 (17 900)	8445 (17 900)
Evaporator Coils	Net face area - m ² (sq. ft.) total		3.1 (33.3)	3.1 (33.3)
	Tube diameter - mm (in.)		9.5 (3/8)	9.5 (3/8)
	Number of rows		3	3
	Fins per m (inch)		551 (14)	551 (14)
	Condensate Drain - number and size		(1) 1 in. NPT coupling	
	Expansion device type		Balanced Port Thermostatic Expansion Valve, removeable power head	
³ Indoor Blower and Drive Selection	Nominal motor output		3.7 kW (5 hp) - 5.6 kW (7.5 hp) - 7.5 kW (10 hp)	
	Maximum usable motor output		4.3 kW (5.75 hp) - 6.4 kW (8.63 hp) - 8.6 kW (11.5 hp)	
	Motor - Drive kit		3.7 kW (5 hp) kit #1 - 550-675 rev/min kit #2 - 640-805 rev/min kit #6 - 465-590 rev/min 5.6 kW 7.5 hp kit #3 - 595-735 rev/min kit #4 - 640-805 rev/min 7.5 kW 10 hp kit #3 - 595-735 rev/min kit #5 - 640-870 rev/min	
	Blower wheel nominal diameter x width - mm (in.)		(2) 457 x 381 (18 x 15)	
Filters	Type of filter		Disposable	
	Number and size - mm (in.)		(12) 508 x 508 x 51 (20 x 20 x 2)	
Electrical characteristics			380/420V - 50 hertz - 3 phase	

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.
¹ Rating test conditions are those included in Air-Conditioning and Refrigeration Institute (ARI) Standard 340/360; 35°C (95°F) outdoor air temperature and 27°C (80°F) db/19°C (67°F) wb entering evaporator air; minimum external duct static pressure while operating at rated voltage and air volumes.
² Integrated Part Load Value tested at 27°C (80°F) outdoor air temperature.
³ Using total air volume and system static pressure requirements determine from blower performance tables rev/min and motor size required. Maximum usable size of motors furnished is shown. If motors of comparable size are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

SPECIFICATIONS
105 kW

General Data		Nominal kW	105 kW	105 kW
		Model	LCC360H2B	LCC360H4B
		Efficiency Type	High	High
		Blower Type	Constant Air Volume (CAV)	
Cooling Performance	Gross Cooling Capacity - kW (Btuh)		96.2 (328 400)	96.2 (328 400)
	¹ Net Cooling Capacity - kW (Btuh)		91.7 (313 000)	91.7 (313 000)
	Rated Air Flow - L/s (cfm)		5475 (11 600)	5475 (11 600)
	Total Unit Power (kW)		31.0	31.0
	¹ EER		10.0	10.0
	Coefficient of Performance (input/output)		2.9	2.9
	² Integrated Part Load Value (IPLV)		10.6	11.2
Refrigerant Type			R-22	R-410A
Refrigerant Charge Furnished	Circuit 1		5.67 kg (12 lbs. 8 oz.)	5.9 kg (13 lbs. 0 oz.)
	Circuit 2		5.67 kg (12 lbs. 8 oz.)	5.9 kg (13 lbs. 0 oz.)
	Circuit 3		5.67 kg (12 lbs. 8 oz.)	5.9 kg (13 lbs. 0 oz.)
	Circuit 4		5.67 kg (12 lbs. 8 oz.)	5.9 kg (13 lbs. 0 oz.)
Compressor Type (no.)			Scroll (4)	Scroll (4)
Outdoor Coils	Net face area - m ² (sq. ft.) total		6.6 (70.6)	6.6 (70.6)
	Tube diameter - mm (in.)		9.5 (3/8)	9.5 (3/8)
	Number of rows		2	2
	Fins per m (inch)		787 (20)	787 (20)
Outdoor Coil Fans	Motor horsepower (W)		(6) 249 (1/3)	(6) 249 (1/3)
	Motor rev/min		1075	1075
	Total Motor watts		2500	2500
	Diameter - in. (mm) - No. of blades		(6) 610 (24)	(6) 610 (24)
	Number of blades		3	3
	Total Air volume - L/s (cfm)		10 145 (21 500)	10 145 (21 500)
Evaporator Coils	Net face area - m ² (sq. ft.) total		3.1 (33.3)	3.1 (33.3)
	Tube diameter - mm (in.)		9.5 (3/8)	9.5 (3/8)
	Number of rows		3	3
	Fins per m (inch)		551 (14)	551 (14)
Condensate Drain - number and size			(1) 1 in. NPT coupling	
Expansion device type			Balanced Port Thermostatic Expansion Valve, removeable power head	
³ Indoor Blower and Drive Selection	Nominal motor output		3.7 kW (5 hp) - 5.6 kW (7.5 hp) - 7.5 kW (10 hp)	
	Maximum usable motor output		4.3 kW (5.75 hp) - 6.4 kW (8.63 hp) - 8.6 kW (11.5 hp)	
	Motor - Drive kit		3.7 kW (5 hp) kit #1 - 550-675 rev/min kit #2 - 640-805 rev/min kit #6 - 465-590 rev/min 5.6 kW 7.5 hp kit #3 - 595-735 rev/min kit #4 - 640-805 rev/min 7.5 kW 10 hp kit #3 - 595-735 rev/min kit #5 - 640-870 rev/min	
Blower wheel nominal diameter x width - mm			(2) 457 x 381 (18 x 15)	
Filters	Type of filter		Disposable	
	Number and size - mm (in.)		(12) 508 x 508 x 51 (20 x 20 x 2)	
Electrical characteristics			380/420V - 50 hertz - 3 phase	

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

¹ Rating test conditions are those included in Air-Conditioning and Refrigeration Institute (ARI) Standard 340/360; 35°C (95°F) outdoor air temperature and 27°C (80°F) db/19°C (67°F) wb entering evaporator air; minimum external duct static pressure while operating at rated voltage and air volumes.

² Integrated Part Load Value tested at 27°C (80°F) outdoor air temperature.

³ Using total air volume and system static pressure requirements determine from blower performance tables rev/min and motor size required. Maximum usable size of motors furnished is shown. If motors of comparable size are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

COOLING RATINGS

74 KW

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

74 KW HIGH EFFICIENCY (R-22) TWO COMPRESSORS OPERATING

LGA248H2B

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			18°C (65°F)						24°C (75°F)						29°C (85°F)						35°C (95°F)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F
17°C (63°F)	3.17	6720	33.0	112.5	4.93	.60	.78	.98	32.1	109.4	5.51	.61	.80	.99	31.1	106.0	6.19	.61	.82	1.00	30.0	102.3	6.98	.62	.85	1.00
	3.96	8400	34.3	116.9	4.96	.65	.90	1.00	33.3	113.6	5.54	.67	.92	1.00	32.3	110.1	6.23	.69	.94	1.00	31.2	106.4	7.01	.71	.97	1.00
	4.76	10080	35.4	120.8	4.99	.74	.99	1.00	34.5	117.6	5.57	.76	1.00	1.00	33.5	114.2	6.25	.78	1.00	1.00	32.4	110.6	7.05	.81	1.00	1.00
19°C (67°F)	3.17	6720	35.1	119.6	4.98	.47	.58	.73	34.1	116.2	5.56	.47	.59	.75	33.0	112.5	6.25	.48	.59	.77	31.8	108.6	7.03	.48	.60	.79
	3.96	8400	36.2	123.4	5.01	.50	.63	.85	35.1	119.8	5.59	.50	.64	.87	34.0	115.9	6.27	.51	.65	.90	32.7	111.7	7.06	.52	.68	.93
	4.76	10080	37.0	126.1	5.03	.52	.70	.95	35.9	122.4	5.61	.53	.72	.97	34.7	118.3	6.29	.54	.75	.99	33.4	114.0	7.09	.55	.77	1.00
22°C (71°F)	3.17	6720	37.4	127.6	5.04	.35	.45	.56	36.3	124.0	5.62	.35	.46	.57	35.2	120.0	6.31	.35	.46	.57	33.9	115.7	7.09	.36	.47	.58
	3.96	8400	38.5	131.3	5.07	.36	.48	.61	37.4	127.5	5.65	.36	.49	.62	36.1	123.2	6.34	.36	.50	.63	34.8	118.7	7.13	.37	.51	.64
	4.76	10080	39.2	133.9	5.09	.37	.52	.67	38.0	129.7	5.67	.37	.52	.69	36.8	125.4	6.35	.38	.53	.72	35.4	120.7	7.15	.38	.54	.74

74 KW HIGH EFFICIENCY (R-22) ALL COMPRESSORS OPERATING

LGA248H2B

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			27°C (80°F)						35°C (95°F)						43°C (110°F)						52°C (125°F)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kW	kBtuh		27°C 80°F	29°C 85°F	32°C 90°F	kW	kBtuh		27°C 80°F	29°C 85°F	32°C 90°F	kW	kBtuh		27°C 80°F	29°C 85°F	32°C 90°F	kW	kBtuh		27°C 80°F	29°C 85°F	32°C 90°F
19°C (67°F)	3.17	6720	70.9	241.8	11.86	.69	.83	.97	67.3	229.6	14.14	.71	.86	.99	63.4	216.2	16.98	.73	.89	1.00	59.3	202.2	20.42	.76	.93	1.00
	3.96	8400	73.3	250.2	11.94	.75	.92	1.00	69.6	237.6	14.22	.78	.95	1.00	65.8	224.4	17.06	.80	.98	1.00	61.8	211.0	20.50	.84	1.00	1.00
	4.76	10080	75.6	258.0	11.98	.82	.99	1.00	72.1	246.0	14.30	.85	1.00	1.00	68.4	233.4	17.14	.88	1.00	1.00	64.5	220.0	20.58	.92	1.00	1.00
22°C (71°F)	3.17	6720	75.1	256.4	11.98	.54	.67	.80	71.3	243.4	14.28	.55	.68	.82	67.2	229.2	17.14	.56	.71	.86	62.7	214.0	20.56	.58	.73	.89
	3.96	8400	77.3	263.8	12.04	.58	.73	.89	73.3	250.0	14.34	.59	.75	.92	68.9	235.0	17.18	.61	.78	.95	64.3	219.4	20.62	.63	.82	.99
	4.76	10080	78.9	269.2	12.10	.62	.79	.97	74.7	254.8	14.38	.63	.82	.99	70.3	239.8	17.22	.65	.86	1.00	65.6	224.0	20.66	.68	.90	1.00
24°C (75°F)	3.17	6720	80.1	273.2	12.10	.40	.52	.64	76.0	259.2	14.42	.41	.54	.66	71.5	244.0	17.26	.41	.55	.68	66.8	227.8	20.70	.42	.57	.71
	3.96	8400	82.2	280.4	12.18	.42	.57	.71	77.8	265.4	14.48	.43	.58	.73	73.2	249.6	17.32	.44	.60	.76	68.2	232.6	20.76	.45	.62	.79
	4.76	10080	83.6	285.2	12.22	.44	.61	.77	79.1	269.8	14.52	.45	.62	.80	74.3	253.6	17.36	.46	.65	.83	69.3	236.4	20.82	.47	.67	.88

74 KW HIGH EFFICIENCY (R-410A) TWO COMPRESSORS OPERATING

LGA248H4B

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			18°C (65°F)						24°C (75°F)						29°C (85°F)						35°C (95°F)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F
17°C (63°F)	3.17	6720	34.4	117.3	4.65	.56	.75	.97	33.1	112.8	5.39	.57	.78	1.00	31.7	108.0	6.16	.58	.82	1.00	30.2	102.9	7.01	.59	.86	1.00
	3.96	8400	35.7	121.9	4.69	.61	.88	1.00	34.3	117.2	5.42	.64	.92	1.00	32.9	112.4	6.19	.67	.95	1.00	31.4	107.3	7.05	.70	.99	1.00
	4.76	10080	36.9	126.0	4.72	.70	.99	1.00	35.6	121.4	5.45	.73	1.00	1.00	34.2	116.7	6.23	.77	1.00	1.00	32.8	111.8	7.09	.81	1.00	1.00
19°C (67°F)	3.17	6720	36.6	124.8	4.71	.44	.54	.70	35.1	119.9	5.45	.44	.55	.72	33.6	114.7	6.22	.45	.56	.76	32.0	109.2	7.07	.46	.58	.80
	3.96	8400	37.7	128.7	4.75	.46	.59	.83	36.2	123.6	5.48	.47	.60	.86	34.6	118.2	6.25	.48	.63	.90	32.9	112.4	7.11	.49	.66	.95
	4.76	10080	38.6	131.6	4.77	.49	.67	.95	37.0	126.3	5.51	.50	.70	.97	35.3	120.6	6.29	.51	.73	1.00	33.6	114.8	7.13	.52	.77	1.00
22°C (71°F)	3.17	6720	39.0	133.2	4.79	.33	.43	.52	37.5	128.0	5.51	.33	.43	.53	35.9	122.4	6.30	.33	.44	.54	34.2	116.6	7.15	.33	.45	.56
	3.96	8400	40.2	137.1	4.82	.34	.45	.57	38.6	131.6	5.55	.34	.46	.58	36.9	125.8	6.33	.34	.47	.60	35.0	119.5	7.19	.35	.48	.63
	4.76	10080	41.0	139.8	4.85	.35	.48	.63	39.3	134.0	5.57	.35	.49	.66	37.5	127.9	6.36	.36	.50	.70	35.6	121.6	7.21	.36	.52	.74

74 KW HIGH EFFICIENCY (R-410A) ALL COMPRESSORS OPERATING

LGA248H4B

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			27°C (80°F)						35°C (95°F)						43°C (110°F)						52°C (125°F)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kW	kBtuh		27°C 80°F	29°C 85°F	32°C 90°F	kW	kBtuh		27°C 80°F	29°C 85°F	32°C 90°F	kW	kBtuh		27°C 80°F	29°C 85°F	32°C 90°F	kW	kBtuh		27°C 80°F	29°C 85°F	32°C 90°F
19°C (67°F)	3.17	6720	76.9	262.3	13.14	.64	.78	.94	71.7	244.5	15.92	.66	.82	.98	65.8	224.5	19.24	.69	.87	1.00	59.2	202.0	23.22	.74	.94	1.00
	3.96	8400	79.7	271.9	13.23	.70	.88	1.00	74.2	253.3	16.04	.73	.93	1.00	68.4	233.3	19.33	.77	.97	1.00	62.2	212.2	23.30	.84	1.00	1.00
	4.76	10080	82.1	280.1	13.30	.76	.96	1.00	76.7	261.8	16.12	.81	.99	1.00	71.0	242.4	19.43	.86	1.00	1.00	64.7	220.9	23.40	.93	1.00	1.00
22°C (71°F)	3.17	6720	81.7	278.7	13.29	.50	.62	.74	76.1	259.6	16.09	.52	.64	.78	69.8	238.1	19.39	.53	.67	.83	62.6	213.7	23.33	.56	.71	.90
	3.96	8400	84.2	287.4	13.38	.54	.67	.84	78.2	267.0	16.19	.55	.70	.89	71.7	244.5	19.48	.58	.75	.94	64.2	219.2	23.42	.61	.81	1.00
	4.76	10080	85.9	293.2	13.48	.57	.74	.93	79.8	272.3	16.26	.59	.78	.97	73.1	249.3	19.56	.62	.83	1.00	65.6	224.0	23.48	.66	.91	1.00
24°C (75°F)	3.17	6720	87.1	297.1	13.52	.38	.49	.60	81.1	276.7	16.30	.38	.50	.62	74.3	253.6	19.62	.39	.52	.65	66.7	227.6	23.53	.40	.55	.69
	3.96	8400	89.4	305.2	13.61	.39	.52	.65	83.1	283.4	16.41	.40	.54	.68	76.1	259.5	19.70	.41	.57	.72	68.1	232.5	23.61	.43	.60	.78
	4.76	10080	91.1	310.7	13.68	.41	.56	.71	84.5	288.3	16.47	.42	.58	.75	77.2	263.4	19.75	.43	.61	.81	69.1	235.8	23.67	.45	.65	.88

COOLING RATINGS

88 KW

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

88 KW HIGH EFFICIENCY (R-22) TWO COMPRESSORS OPERATING

LGC300H2B

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			18°C (65°F)						24°C (75°F)						29°C (85°F)						35°C (95°F)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F
17°C (63°F)	3.77	8000	42.3	144.3	7.10	.60	.77	.96	41.0	139.8	8.02	.61	.79	.97	39.7	135.4	8.98	.62	.81	.99	38.3	130.8	10.02	.63	.83	1.00
	4.72	10000	43.9	149.8	7.17	.65	.88	1.00	42.5	145.1	8.09	.67	.90	1.00	41.2	140.5	9.06	.68	.92	1.00	39.8	135.7	10.13	.71	.95	1.00
	5.66	12000	45.3	154.5	7.22	.72	.96	1.00	43.9	149.8	8.16	.75	.98	1.00	42.5	145.1	9.15	.77	1.00	1.00	41.2	140.6	10.22	.79	1.00	1.00
19°C (67°F)	3.77	8000	44.9	153.3	7.20	.47	.58	.72	43.5	148.4	8.14	.47	.59	.74	42.1	143.5	9.12	.48	.60	.76	40.6	138.5	10.18	.49	.61	.78
	4.72	10000	46.3	158.0	7.28	.50	.63	.83	44.8	152.9	8.22	.50	.64	.85	43.3	147.8	9.20	.51	.65	.88	41.8	142.5	10.27	.52	.67	.91
	5.66	12000	47.3	161.5	7.32	.52	.69	.93	45.8	156.2	8.27	.53	.72	.95	44.2	150.8	9.26	.54	.74	.97	42.6	145.4	10.34	.55	.76	.99
22°C (71°F)	3.77	8000	47.9	163.3	7.34	.35	.46	.56	46.3	158.1	8.29	.35	.46	.57	44.8	152.8	9.29	.36	.47	.58	43.2	147.4	10.37	.36	.47	.59
	4.72	10000	49.2	167.9	7.39	.36	.48	.61	47.6	162.4	8.36	.37	.49	.62	46.0	156.9	9.36	.37	.50	.63	44.3	151.2	10.46	.37	.51	.64
	5.66	12000	50.2	171.2	7.44	.37	.51	.67	48.5	165.5	8.40	.38	.52	.69	46.8	159.8	9.42	.38	.53	.71	45.1	153.8	10.51	.38	.54	.73

88 KW HIGH EFFICIENCY (R-22) ALL COMPRESSORS OPERATING

LGC300H2B

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F
17°C (63°F)	3.77	8000	78.8	269.0	16.84	.70	.85	.99	76.2	260.0	18.80	.71	.87	1.00	73.3	250.2	21.02	.72	.89	1.00	70.3	239.8	23.52	.73	.92	1.00
	4.72	10000	81.8	279.2	17.02	.75	.94	1.00	79.0	269.6	19.00	.77	.96	1.00	76.2	260.0	21.22	.79	.98	1.00	73.2	249.6	23.74	.81	1.00	1.00
	5.66	12000	84.6	288.6	17.16	.82	1.00	1.00	81.9	279.4	19.20	.84	1.00	1.00	79.1	270.0	21.44	.86	1.00	1.00	76.1	259.8	23.98	.88	1.00	1.00
19°C (67°F)	3.77	8000	83.6	285.4	17.12	.54	.67	.82	80.7	275.2	19.12	.55	.68	.83	77.6	264.8	21.34	.56	.70	.85	74.3	253.6	23.86	.56	.71	.88
	4.72	10000	86.0	293.6	17.26	.58	.73	.91	83.0	283.2	19.30	.58	.74	.93	79.8	272.2	21.54	.59	.76	.95	76.3	260.2	24.04	.60	.79	.97
	5.66	12000	87.9	300.0	17.38	.61	.80	.98	84.7	289.0	19.40	.62	.82	.99	81.4	277.6	21.64	.63	.84	1.00	77.8	265.6	24.18	.64	.86	1.00
22°C (71°F)	3.77	8000	89.0	303.6	17.46	.40	.53	.65	85.9	293.0	19.48	.41	.53	.66	82.6	282.0	21.70	.41	.54	.67	79.1	269.8	24.26	.41	.55	.69
	4.72	10000	91.4	311.8	17.58	.42	.56	.71	88.2	300.8	19.62	.42	.57	.72	84.6	288.8	21.90	.42	.58	.74	80.9	276.0	24.44	.43	.59	.76
	5.66	12000	93.1	317.6	17.68	.43	.60	.77	89.6	305.8	19.74	.43	.61	.79	86.0	293.4	21.98	.44	.62	.81	82.2	280.4	24.54	.44	.64	.84

88 KW HIGH EFFICIENCY (R-410A) TWO COMPRESSORS OPERATING

LGC300H4B

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			18°C (65°F)						24°C (75°F)						29°C (85°F)						35°C (95°F)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F
17°C (63°F)	3.77	8000	40.1	136.9	6.55	.62	.79	.97	38.7	132.0	7.31	.63	.81	.99	37.2	126.9	8.17	.64	.84	1.00	35.5	121.2	9.15	.66	.87	1.00
	4.72	10000	41.6	142.0	6.64	.68	.90	1.00	40.2	137.1	7.40	.69	.92	1.00	38.6	131.6	8.27	.72	.95	1.00	36.9	125.9	9.25	.74	.98	1.00
	5.66	12000	42.9	146.4	6.71	.75	.98	1.00	41.5	141.5	7.48	.77	.99	1.00	39.9	136.3	8.35	.80	1.00	1.00	38.3	130.8	9.34	.83	1.00	1.00
19°C (67°F)	3.77	8000	42.6	145.2	6.70	.49	.60	.74	41.0	140.0	7.46	.49	.61	.77	39.4	134.4	8.31	.50	.62	.79	37.6	128.3	9.30	.51	.64	.82
	4.72	10000	43.8	149.5	6.77	.52	.65	.85	42.3	144.2	7.54	.52	.66	.88	40.5	138.3	8.40	.53	.69	.91	38.7	131.9	9.37	.54	.71	.94
	5.66	12000	44.8	152.7	6.84	.55	.72	.95	43.1	147.2	7.59	.55	.74	.97	41.4	141.1	8.45	.56	.77	.99	39.4	134.6	9.43	.58	.80	1.00
22°C (71°F)	3.77	8000	45.3	154.5	6.86	.37	.47	.58	43.7	149.0	7.62	.37	.48	.59	41.9	143.1	8.49	.37	.49	.60	40.1	136.7	9.47	.37	.50	.62
	4.72	10000	46.5	158.8	6.94	.38	.50	.63	44.9	153.1	7.70	.38	.51	.65	43.0	146.8	8.56	.38	.52	.66	41.0	140.0	9.55	.39	.53	.68
	5.66	12000	47.4	161.7	6.99	.39	.54	.69	45.7	155.8	7.76	.39	.55	.72	43.8	149.3	8.62	.40	.56	.74	41.7	142.4	9.60	.40	.57	.77

88 KW HIGH EFFICIENCY (R-410A) ALL COMPRESSORS OPERATING

LGC300H4B

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			27°C (80°F)						35°C (95°F)						43°C (110°F)						52°C (125°F)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F
17°C (63°F)	3.77	8000	81.9	279.6	15.74	.72	.87	1.00	76.7	261.6	18.64	.74	.90	1.00	70.7	241.4	22.20	.77	.94	1.00	64.4	219.6	26.63	.81	.99	1.00
	4.72	10000	85.0	290.2	15.92	.77	.95	1.00	79.7	271.8	18.84	.80	.98	1.00	74.0	252.6	22.40	.84	1.00	1.00	67.8	231.4	26.84	.90	1.00	1.00
	5.66	12000	87.9	300.0	16.08	.84	1.00	1.00	82.8	282.4	19.02	.87	1.00	1.00	77.0	262.6	22.61	.91	1.00	1.00	70.5	240.4	27.04	.97	1.00	1.00
19°C (67°F)	3.77	8000	86.8	296.2	16.04	.56	.69	.83	81.1	276.8	18.94	.57	.71	.86	74.7	255.0	22.50	.59	.74	.91	67.7	231.0	26.88	.61	.78	.96
	4.72	10000	89.4	305.0	16.18	.59	.75	.92	83.4	284.6	19.08	.61	.78	.95	76.8	262.2	22.64	.63	.82	.99	69.5	237.0	27.02	.66	.87	1.00
	5.66	12000	91.3	311.4	16.30	.63	.81	.98	85.2	290.6	19.20	.65	.85	1.00	78.4	267.6	22.76	.67	.89	1.00	71.0	242.4	27.16	.71	.95	1.00
22°C (71°F)	3.77	8000	92.4	315.4	16.36	.41	.54	.67	86.5	295.0	19.29	.42	.56	.69	79.7	271.8	22.84	.42	.57	.72	72.1	246.0	27.24	.43	.60	.76
	4.72	10000	94.9	323.8	16.54	.43	.58	.73	88.6	302.2	19.44	.43	.60	.76	81.5	278.2	22.98	.44	.62	.79	73.7	251.4	27.36	.45	.65	.85
	5.66	12000	96.5	329.4	16.64	.44	.62	.79	90.0	307.2	19.54	.45	.64	.83	82.8	282.6	23.09	.46	.67	.87	74.8	255.2	27.46	.48	.70	.93

COOLING RATINGS

105 KW

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

105 KW HIGH EFFICIENCY (R-22) TWO COMPRESSORS OPERATING

LGC360H2B

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			18°C (65°F)						24°C (75°F)						29°C (85°F)						35°C (95°F)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F
17°C (63°F)	4.25	9000	49.5	168.9	8.62	.60	.75	.92	48.0	163.9	9.56	.61	.77	.94	46.5	158.7	10.64	.61	.79	.96	44.9	153.1	11.88	.62	.81	.97
	5.28	11200	51.4	175.3	8.74	.64	.84	.93	49.8	170.0	9.70	.66	.86	.93	48.2	164.5	10.77	.67	.88	.93	46.5	158.8	12.01	.69	.90	.92
	6.32	13400	52.8	180.2	8.86	.71	.92	.93	51.3	175.0	9.79	.72	.94	.93	49.7	169.5	10.88	.74	.96	.93	48.0	163.7	12.12	.76	.98	.93
19°C (67°F)	4.25	9000	52.6	179.5	8.83	.47	.58	.71	51.0	174.0	9.77	.48	.59	.72	49.4	168.4	10.84	.48	.59	.74	47.6	162.4	12.08	.49	.60	.76
	5.28	11200	54.2	185.1	8.95	.50	.62	.80	52.6	179.4	9.88	.50	.63	.82	50.8	173.4	10.97	.51	.64	.84	49.0	167.1	12.21	.51	.66	.86
	6.32	13400	55.4	189.2	9.03	.52	.68	.88	53.7	183.3	9.97	.53	.69	.90	51.9	177.0	11.06	.53	.71	.92	50.0	170.6	12.30	.54	.73	.95
22°C (71°F)	4.25	9000	56.0	191.1	9.07	.36	.46	.56	54.3	185.3	10.02	.36	.46	.56	52.5	179.3	11.10	.36	.47	.57	50.6	172.8	12.35	.36	.47	.58
	5.28	11200	57.6	196.7	9.19	.37	.48	.60	55.8	190.5	10.13	.37	.49	.61	54.0	184.1	11.22	.37	.50	.62	52.0	177.4	12.47	.37	.50	.63
	6.32	13400	58.7	200.4	9.28	.38	.51	.65	56.9	194.2	10.22	.38	.52	.67	55.0	187.5	11.30	.38	.52	.68	52.9	180.6	12.55	.38	.53	.71

105 KW HIGH EFFICIENCY (R-22) ALL COMPRESSORS OPERATING

LGC360H2B

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			29°C (85°F)						35°C (95°F)						41°C (105°F)						46°C (115°F)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F
17°C (63°F)	4.25	9000	90.3	308.0	20.66	.74	.89	1.00	87.0	297.0	23.02	.75	.90	1.00	83.7	285.6	25.72	.77	.92	1.00	80.1	273.2	28.86	.78	.94	1.00
	5.28	11200	93.5	319.2	20.88	.80	.96	1.00	90.3	308.1	23.28	.81	.97	1.00	86.9	296.4	26.00	.83	.99	1.00	83.3	284.4	29.14	.85	1.00	1.00
	6.32	13400	96.6	329.6	21.12	.86	1.00	1.00	93.4	318.8	23.52	.87	1.00	1.00	90.1	307.4	26.32	.89	1.00	1.00	86.5	295.2	29.48	.91	1.00	1.00
19°C (67°F)	4.25	9000	95.5	325.9	21.04	.58	.72	.85	92.0	314.0	23.42	.58	.73	.87	88.4	301.6	26.16	.59	.74	.89	84.5	288.2	29.30	.60	.76	.91
	5.28	11200	98.2	335.0	21.24	.61	.78	.93	94.5	322.6	23.66	.62	.79	.95	90.7	309.4	26.41	.63	.81	.97	86.6	295.6	29.54	.64	.83	.98
	6.32	13400	100.2	341.8	21.42	.65	.84	.99	96.4	329.0	23.82	.66	.85	1.00	92.5	315.6	26.56	.67	.87	1.00	88.3	301.2	29.72	.69	.90	1.00
22°C (71°F)	4.25	9000	101.6	346.8	21.51	.43	.56	.69	97.9	334.0	23.92	.43	.57	.71	94.0	320.6	26.68	.43	.58	.72	89.8	306.4	29.86	.44	.59	.74
	5.28	11200	104.2	355.4	21.73	.44	.60	.76	100.3	342.2	24.12	.44	.61	.77	96.2	328.2	26.90	.45	.62	.79	91.7	312.8	30.08	.45	.63	.81
	6.32	13400	105.9	361.5	21.86	.45	.64	.82	101.9	347.6	24.27	.46	.65	.83	97.6	333.0	27.08	.46	.66	.85	93.1	317.7	30.22	.47	.68	.88

105 KW HIGH EFFICIENCY (R-410A) TWO COMPRESSORS OPERATING

LGC360H4B

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			18°C (65°F)						24°C (75°F)						29°C (85°F)						35°C (95°F)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F
17°C (63°F)	4.39	9300	51.7	176.3	8.47	.62	.78	.96	49.9	170.3	9.43	.63	.80	.98	48.0	163.7	10.51	.64	.83	1.00	45.9	156.6	11.73	.65	.86	1.00
	5.47	11600	53.5	182.4	8.59	.67	.89	1.00	51.6	176.1	9.53	.68	.91	1.00	49.6	169.3	10.62	.71	.93	1.00	47.5	162.1	11.84	.73	.96	1.00
	6.56	13900	54.9	187.4	8.67	.74	.97	1.00	53.1	181.2	9.63	.76	.99	1.00	51.1	174.5	10.72	.79	1.00	1.00	49.1	167.6	11.96	.82	1.00	1.00
19°C (67°F)	4.39	9300	54.6	186.2	8.65	.48	.60	.74	52.7	179.7	9.60	.49	.61	.76	50.6	172.6	10.68	.50	.62	.78	48.3	164.9	11.92	.50	.63	.81
	5.47	11600	56.1	191.3	8.75	.51	.65	.84	54.0	184.4	9.70	.52	.66	.87	51.9	177.1	10.78	.53	.68	.90	49.6	169.2	12.01	.54	.70	.93
	6.56	13900	57.1	195.0	8.82	.54	.71	.94	55.1	188.1	9.77	.55	.73	.96	52.9	180.5	10.85	.56	.76	.98	50.5	172.3	12.10	.57	.79	1.00
22°C (71°F)	4.39	9300	57.8	197.2	8.86	.36	.47	.58	55.8	190.4	9.82	.36	.48	.59	53.6	182.9	10.91	.37	.48	.60	51.3	174.9	12.14	.37	.49	.61
	5.47	11600	59.2	202.1	8.97	.37	.50	.63	57.2	195.1	9.92	.38	.51	.64	54.9	187.3	11.00	.38	.52	.65	52.4	178.8	12.25	.38	.53	.68
	6.56	13900	60.2	205.5	9.03	.38	.53	.69	58.1	198.3	9.99	.39	.54	.71	55.7	190.1	11.08	.39	.55	.73	53.2	181.5	12.31	.40	.56	.76

105 KW HIGH EFFICIENCY (R-410A) ALL COMPRESSORS OPERATING

LGC360H4B

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			27°C (80°F)						35°C (95°F)						43°C (110°F)						52°C (125°F)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F	kW	kBtuh		24°C 75°F	27°C 80°F	29°C 85°F
17°C (63°F)	4.39	9300	95.7	326.6	20.16	.72	.86	.99	89.7	306.0	23.76	.74	.90	1.00	82.9	283.0	28.23	.76	.94	1.00	75.6	258.0	33.74	.80	.98	1.00
	5.47	11600	99.0	337.8	20.36	.77	.94	1.00	92.8	316.8	23.98	.80	.97	1.00	86.2	294.0	28.48	.84	1.00	1.00	79.1	270.0	34.06	.89	1.00	1.00
	6.56	13900	101.9	347.6	20.58	.83	1.00	1.00	96.0	327.4	24.24	.86	1.00	1.00	89.4	305.0	28.76	.91	1.00	1.00	81.9	279.6	34.30	.95	1.00	1.00
19°C (67°F)	4.39	9300	100.9	344.4	20.52	.56	.69	.83	94.5	322.4	24.14	.57	.71	.86	87.3	297.8	28.62	.59	.74	.90	79.2	270.2	34.12	.61	.78	.95
	5.47	11600	103.6	353.6	20.72	.59	.75	.91	96.9	330.6	24.34	.61	.78	.95	89.4	305.2	28.80	.63	.82	.98	81.1	276.6	34.32	.66	.87	1.00
	6.56	13900	105.6	360.4	20.86	.63	.81	.98	98.7	336.8	24.52	.64	.84	1.00	91.1	310.8	28.96	.67	.89	1.00	82.6	282.0	34.48	.71	.94	1.00
22°C (71°F)	4.39	9300	106.9	364.8	20.94	.42	.54	.67	100.1	341.6	24.58	.42	.56	.69	92.5	315.6	29.08	.43	.57	.72	83.9	286.2	34.60	.43	.60	.76
	5.47	11600	109.5	373.6	21.16	.43	.58	.73	102.4	349.4	24.80	.43	.60	.76	94.4	322.2	29.28	.44	.62	.79	85.5	291.8	34.76	.45	.65	.84
	6.56	13900	111.2	379.6	21.30	.44	.62	.79	103.9	354.6	24.92	.45	.64	.83	95.8	326.8	29.38	.46	.67	.87	86.7	295.8	34.88	.48	.70	.92

BLOWER DATA

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

FOR ALL UNITS ADD:

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

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

See page 17 for wet coil and option/accessory air resistance data.

See page 17 for factory installed drive kit specifications.

BOLD INDICATES FIELD FURNISHED DRIVE

Air Volume cfm (L/s)	TOTAL STATIC PRESSURE — Inches Water Gauge (Pa)													
	.20 (50)	.40 (100)	.60 (150)	.80 (200)	1.00 (250)	1.20 (300)	1.40 (350)	1.60 (400)	1.80 (450)	2.00 (495)	2.20 (545)	2.40 (595)	2.60 (645)	
	REV/ BHP MIN (kW)	REV/ BHP MIN (kW)	REV/ BHP MIN (kW)	REV/ BHP MIN (kW)	REV/ BHP MIN (kW)	REV/ BHP MIN (kW)	REV/ BHP MIN (kW)	REV/ BHP MIN (kW)	REV/ BHP MIN (kW)	REV/ BHP MIN (kW)	REV/ BHP MIN (kW)	REV/ BHP MIN (kW)	REV/ BHP MIN (kW)	REV/ BHP MIN (kW)
6000 (2830)	---	435 1.20 (0.90)	525 1.45 (1.08)	570 1.60 (1.19)	630 2.00 (1.49)	700 2.35 (1.75)	750 2.80 (2.09)	795 3.15 (2.35)	840 3.40 (2.54)	880 3.80 (2.83)	920 4.20 (3.13)	960 4.65 (3.47)	995 5.10 (3.80)	
6500 (3065)	---	445 1.30 (0.97)	530 1.60 (1.19)	580 1.80 (1.34)	640 2.20 (1.64)	705 2.60 (1.94)	755 3.05 (2.28)	800 3.40 (2.54)	845 3.70 (2.76)	885 4.15 (3.10)	925 4.60 (4.43)	965 5.00 (3.73)	1000 5.45 (4.07)	
7000 (3305)	---	455 1.40 (1.04)	535 1.75 (1.31)	590 2.05 (1.53)	650 2.45 (1.83)	710 2.85 (2.13)	760 3.30 (2.46)	805 3.70 (2.76)	850 4.05 (3.02)	890 4.50 (3.36)	930 4.95 (3.69)	970 5.40 (4.03)	1005 5.85 (4.36)	
7500 (3540)	380 1.05 (0.78)	465 1.50 (1.12)	540 1.90 (1.42)	600 2.30 (1.72)	660 2.70 (2.01)	715 3.15 (2.35)	765 3.60 (2.69)	810 4.00 (2.98)	855 4.45 (3.32)	895 4.90 (3.66)	935 5.35 (3.99)	975 5.85 (4.36)	1010 6.30 (4.70)	
8000 (3775)	390 1.25 (0.93)	475 1.65 (1.23)	545 2.10 (1.57)	610 2.55 (1.90)	665 2.95 (2.20)	720 3.45 (2.57)	770 3.90 (2.91)	815 4.35 (3.25)	860 4.85 (3.62)	900 5.30 (3.95)	940 5.75 (4.29)	980 6.30 (4.70)	1015 6.75 (5.04)	
8500 (4010)	405 1.40 (1.04)	485 1.90 (1.42)	555 2.35 (1.75)	620 2.80 (2.09)	675 3.30 (2.46)	725 3.75 (2.80)	775 4.20 (3.13)	820 4.70 (3.51)	865 5.20 (3.88)	905 5.70 (4.25)	945 6.20 (4.63)	985 6.75 (5.04)	1020 7.25 (5.41)	
9000 (4245)	415 1.60 (1.19)	495 2.10 (1.57)	565 2.60 (1.94)	625 3.10 (2.31)	685 3.60 (2.69)	735 4.10 (3.06)	785 4.60 (3.43)	830 5.10 (3.80)	870 5.60 (4.18)	915 6.15 (4.59)	955 6.70 (5.00)	990 7.20 (5.37)	1025 7.70 (5.74)	
9500 (4485)	430 1.85 (1.38)	505 2.35 (1.75)	575 2.90 (2.16)	635 3.40 (2.54)	690 3.90 (2.91)	745 4.50 (3.36)	790 4.95 (3.69)	835 5.50 (4.10)	880 6.05 (4.51)	920 6.60 (4.92)	960 7.15 (5.33)	995 7.70 (5.74)	1035 8.30 (6.19)	
10 000 (4720)	445 2.10 (1.57)	520 2.65 (1.98)	585 3.20 (2.39)	645 3.75 (2.80)	700 4.30 (3.21)	750 4.85 (3.64)	800 5.40 (4.03)	845 5.95 (4.44)	885 6.50 (4.85)	925 7.05 (5.26)	965 7.65 (5.71)	1000 8.20 (6.12)	1040 8.85 (6.60)	
10 500 (4955)	455 2.35 (1.75)	530 2.95 (2.20)	595 3.50 (2.61)	655 4.10 (3.06)	710 4.70 (3.03)	760 5.25 (3.92)	805 5.80 (4.33)	850 6.40 (4.77)	895 7.00 (5.22)	935 7.60 (5.67)	970 8.15 (6.08)	1010 8.80 (6.56)	1045 9.40 (7.01)	
11 000 (5190)	470 2.60 (1.94)	545 3.25 (2.42)	605 3.85 (2.87)	665 4.45 (3.32)	720 5.10 (3.80)	765 5.66 (4.22)	815 6.30 (4.70)	860 6.90 (5.15)	900 7.50 (5.60)	940 8.10 (6.04)	980 8.75 (6.53)	1015 9.35 (6.98)	---	
11 500 (5425)	485 2.95 (2.20)	555 3.60 (2.69)	620 4.25 (3.17)	675 4.85 (3.62)	730 5.55 (4.14)	775 6.10 (4.55)	820 6.70 (5.00)	865 7.40 (5.52)	910 8.05 (6.01)	945 8.65 (6.45)	985 9.30 (6.94)	1020 9.95 (7.42)	---	
12 000 (5665)	500 3.30 (2.46)	570 4.00 (2.98)	630 4.65 (3.47)	685 5.30 (3.95)	740 6.00 (4.48)	785 6.60 (4.92)	830 7.25 (5.41)	875 7.95 (5.93)	915 8.60 (6.42)	955 9.25 (6.90)	995 9.95 (7.42)	1030 10.6 (7.91)	---	
12 500 (5900)	515 3.65 (2.72)	580 4.35 (3.25)	640 5.05 (3.77)	695 5.75 (4.29)	750 6.50 (4.85)	795 7.10 (5.30)	840 7.80 (5.82)	885 8.55 (6.38)	925 9.20 (6.86)	965 9.90 (7.39)	1000 10.5 (7.87)	1035 11.25 (8.39)	---	
13 000 (6135)	530 4.05 (3.02)	595 4.80 (3.58)	655 5.55 (4.14)	710 6.25 (4.66)	760 7.00 (5.22)	805 7.65 (5.71)	850 8.40 (6.27)	890 9.05 (6.75)	930 9.75 (7.27)	970 10.50 (7.83)	1010 11.3 (8.43)	---	---	
13 500 (6370)	545 4.45 (3.32)	610 5.25 (3.92)	665 6.00 (4.48)	720 6.75 (5.04)	770 7.50 (5.60)	815 8.25 (6.15)	860 9.00 (6.71)	900 9.70 (7.24)	940 10.45 (7.80)	980 11.20 (8.36)	---	---	---	
14 000 (6605)	560 4.90 (3.66)	620 5.70 (4.25)	680 6.55 (4.89)	730 7.30 (5.45)	780 8.10 (6.04)	825 8.85 (6.60)	870 9.65 (7.20)	910 10.40 (7.76)	950 11.15 (8.31)	---	---	---	---	
14 500 (6845)	575 5.40 (4.03)	635 6.25 (4.66)	690 7.05 (5.26)	745 7.90 (5.89)	790 8.65 (6.45)	835 9.45 (7.05)	880 10.30 (7.68)	920 11.10 (8.28)	---	---	---	---	---	
15 000 (7080)	590 5.90 (4.40)	650 6.80 (5.07)	705 7.65 (5.71)	755 8.50 (6.34)	800 9.30 (6.94)	845 10.10 (7.53)	890 11.00 (8.21)	---	---	---	---	---	---	

BLOWER DATA

DRIVE KIT SPECIFICATIONS

Nominal kW	Maximum kW	Nominal hp	Maximum hp	Drive Kit Number	Rev/Min Range
3.7	4.3	5 hp	5.75	1 2 6	550 - 675 640 - 805 465 - 590
5.6	6.4	7.5 hp	8.63	3 4	595 - 735 640 - 805
7.5	8.6	10 hp	11.5	3 5	595 - 735 640 - 870

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

ACCESSORY AIR RESISTANCE

Air Volume		Wet Indoor Coil		Electric Heat		Economizer		Horizontal Roof Curb		Filters			
L/s	cfm	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	MERV 11		MERV 15	
										Pa	in. w.g.	Pa	in. w.g.
2830	6000	10	0.04	5	0.02	3	0.01	20	0.08	2	0.01	7	0.03
3070	6500	13	0.05	5	0.02	3	0.01	22	0.09	2	0.01	10	0.04
3305	7000	15	0.06	7	0.03	5	0.02	25	0.10	2	0.01	10	0.04
3540	7500	17	0.07	7	0.03	5	0.02	27	0.11	5	0.02	10	0.04
3775	8000	20	0.08	7	0.03	5	0.02	32	0.13	5	0.02	12	0.05
4010	8500	20	0.08	10	0.04	7	0.03	37	0.15	5	0.02	12	0.05
4245	9000	22	0.09	10	0.04	10	0.04	42	0.17	5	0.02	12	0.05
4485	9500	25	0.10	12	0.05	10	0.04	47	0.19	7	0.03	15	0.06
4720	10 000	27	0.11	12	0.05	12	0.05	52	0.21	7	0.03	15	0.06
4955	10 500	30	0.12	15	0.06	15	0.06	60	0.24	7	0.03	15	0.06
5190	11,000	30	0.12	15	0.06	17	0.07	67	0.27	10	0.04	17	0.07
5425	11 500	32	0.13	17	0.07	20	0.08	75	0.30	10	0.04	17	0.07
5665	12 000	35	0.14	17	0.07	25	0.10	82	0.33	10	0.04	20	0.08
5900	12 500	37	0.15	20	0.08	27	0.11	92	0.37	12	0.05	20	0.08
6135	13 000	40	0.16	20	0.08	32	0.13	99	0.40	12	0.05	20	0.08
6370	13 500	42	0.17	22	0.09	35	0.14	109	0.44	15	0.06	22	0.09
6605	14 000	45	0.18	25	0.10	40	0.16	122	0.49	15	0.06	22	0.09
6845	14 500	47	0.19	25	0.10	45	0.18	132	0.53	15	0.06	25	0.10
7080	15 000	50	0.20	27	0.11	52	0.21	144	0.58	17	0.07	25	0.10

BLOWER DATA

CEILING DIFFUSER AIR RESISTANCE

Air Volume		Step-Down Diffuser - LARTD30/36						Flush Diffuser - LAFD30/36	
		2 Ends Open		1 Side/2 Ends Open		All Ends & Sides Open		Pa	in. w.g.
L/s	cfm	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.
3540	7500	92	.37	77	.31	62	.25	72	.29
3775	8000	104	.42	90	.36	72	.29	85	.34
4010	8500	119	.48	102	.41	85	.34	97	.39
4245	9000	137	.55	117	.47	97	.39	109	.44
4485	9500	154	.62	132	.53	112	.45	127	.51
4720	10,000	174	.70	149	.60	127	.51	142	.57
4955	10 500	194	.78	169	.68	144	.58	162	.65
5190	11 000	216	.87	190	.76	162	.65	179	.72
5425	11 500	241	.97	211	.85	182	.73	201	.81
5665	12 000	269	1.08	234	.94	204	.82	223	.90
5900	12 500	296	1.19	259	1.04	226	.91	246	.99
6135	13 000	323	1.30	286	1.15	249	1.00	274	1.10
6370	13 500	356	1.43	313	1.26	274	1.10	298	1.20
6605	14 000	388	1.56	343	1.38	298	1.20	326	1.31
6845	14 500	420	1.69	373	1.50	326	1.31	356	1.43
7080	15 000	457	1.84	405	1.63	356	1.43	388	1.56

CEILING DIFFUSER AIR THROW DATA

Air Volume		¹ Effective Throw Range				Air Volume		¹ Effective Throw Range			
		Step-Down		Flush				Step-Down		Flush	
L/s	cfm	m	ft.	m	ft.	L/s	cfm	m	ft.	m	ft.
Diffuser Model		LARTD30/36		LAFD30/36		Diffuser Model		LARTD30/36		LAFD30/36	
4245	9000	12 - 14	40 - 47	8 - 11	29 - 35	5425	11 500	17 - 20	55 - 64	15 - 19	50 - 61
4485	9500	13 - 15	43 - 50	10 - 12	33 - 41	5665	12 000	18 - 20	58 - 67	16 - 20	54 - 66
4720	10 000	14 - 16	46 - 54	11 - 14	37 - 46	5900	12 500	19 - 22	61 - 71	18 - 22	58 - 71
4955	10 500	15 - 18	50 - 58	13 - 15	42 - 51	6135	13 000	20 - 23	64 - 74	19 - 23	62 - 75
4190	11 000	16 - 19	53 - 61	14 - 17	46 - 56	6370	13 500	20 - 23	67 - 77	20 - 24	66 - 79

¹ Throw is the horizontal or vertical distance an airstream travels on leaving the outlet or diffuser before the maximum velocity is reduced to 15 m (50 ft.) per minute. Four sides open.

POWER EXHAUST FANS - STANDARD STATIC OPERATION

Return Duct Negative Static Pressure		Air Volume	
Pa	in. w.g.	L/s	cfm
0	0	6040	12,800
12	0.05	5760	12,200
25	0.10	5430	11,500
37	0.15	5100	10,800
50	0.20	4670	9900
62	0.25	4250	9000
75	0.30	3730	7900
87	0.35	3190	6750
100	0.40	2570	5450
112	0.45	1960	4150
125	0.50	1370	2900

ELECTRIC HEAT CAPACITIES

Volts Input	20.8 kW			31.2 kW			41.6 kW			62.5 kW			83.4 kW		
	kW Input	Btuh Output	No. of Steps	kW Input	Btuh Output	No. of Steps	kW Input	Btuh Output	No. of Steps	kW Input	Btuh Output	No. of Steps	kW Input	Btuh Output	No. of Steps
380	18.8	64 200	1	28.2	93 600	2	37.6	128 400	2	56.4	192 500	2	75.2	236 700	2
400	20.8	71 100	1	31.2	106 700	2	41.6	142 200	2	62.5	213 200	2	83.4	261 000	2
420	23.0	78 400	1	34.4	117 600	2	45.9	156 800	2	68.9	235 100	2	91.9	313 700	2

ELECTRICAL/ELECTRIC HEAT DATA

74, 88 AND 105 kW

HIGH EFFICIENCY (R-22)		LCA248H2			LCC300H2			LCC360H2		
¹ Voltage - 50hz with neutral		380/420V-3 Ph			380/420V-3 Ph			380/420V-3 Ph		
Compressor 1	Rated Load Amps	9			9			10.9		
	Locked Rotor Amps	62			75			100		
Compressor 2	Rated Load Amps	9			9			10.9		
	Locked Rotor Amps	62			75			100		
Compressor 3	Rated Load Amps	9			9			10.9		
	Locked Rotor Amps	62			75			100		
Compressor 4	Rated Load Amps	9			9			10.9		
	Locked Rotor Amps	62			75			100		
Outdoor Fan Motors (6)	Full Load Amps (total)	1.3 (7.8)			1.3 (7.8)			1.3 (7.8)		
Indoor Blower Motor	kW (hp)	3.73 (5)	5.6 (7.5)	7.5 (10)	3.73 (5)	5.6 (7.5)	7.5 (10)	3.73 (5)	5.6 (7.5)	7.5 (10)
	Full Load Amps	7.8	11.8	15.2	7.8	11.8	15.2	7.8	11.8	15.2
² Maximum Overcurrent Protection	Unit Only	60	70	70	60	70	70	70	70	80
	Unit With (3) 0.19 kW (0.25 hp) Power Exhaust	60	70	80	60	70	80	70	80	80
³ Minimum Circuit Ampacity	Unit Only	54	58	62	54	58	62	62	66	70
	Unit With (3) 0.19 kW (0.25 hp) Power Exhaust	58	62	66	58	62	66	66	70	74

ELECTRIC HEAT DATA

		Electric Heat Voltage	380/420V-3 Ph								
² Maximum Overcurrent Protection	Unit+	20.8 kW	60	70	70	60	70	70	70	70	80
	⁴ Electric Heat	31.2 kW	70	80	80	70	80	80	70	80	80
		41.6 kW	80	80	90	80	80	90	80	80	90
		62.5 kW	110	110	125	110	110	125	110	110	125
		83.4 kW	150	150	150	150	150	150	150	150	150
² Maximum Overcurrent Protection	Unit+	20.8 kW	60	70	80	60	70	80	70	80	80
	⁴ Electric Heat and (3) 0.19 kW (0.25 hp) Power Exhaust	31.2 kW	80	80	90	80	80	90	80	80	90
		41.6 kW	80	90	90	80	90	90	80	90	90
		62.5 kW	110	125	125	110	125	125	110	125	125
		83.4 kW	150	150	175	150	150	175	150	150	175
³ Minimum Circuit Ampacity	Unit+	20.8 kW	54	58	62	54	58	62	62	66	70
	⁴ Electric Heat	31.2 kW	69	74	79	69	74	79	69	74	79
		41.6 kW	73	78	83	73	78	83	73	78	83
		62.5 kW	105	110	114	105	110	114	105	110	114
		83.4 kW	137	142	146	137	142	146	137	142	146
³ Minimum Circuit Ampacity	Unit+	20.8 kW	58	62	66	58	62	66	66	70	74
	⁴ Electric Heat and (3) 0.19 kW (0.25 hp) Power Exhaust	31.2 kW	74	79	84	74	79	84	74	79	84
		41.6 kW	78	83	88	78	83	88	78	83	88
		62.5 kW	110	115	119	110	115	119	110	115	119
		83.4 kW	141	146	151	141	146	151	141	146	151

¹ Extremes of operating range are plus and minus 10% of line voltage.

² Heating, Air Conditioning, Refrigeration type breaker or fuse.

³ Refer to local electrical code to determine wire, fuse and disconnect size requirements.

⁴ Nominal kW based on 400V-3ph-50hz.

ELECTRICAL/ELECTRIC HEAT DATA

74, 88 AND 105 KW

HIGH EFFICIENCY (R-410A)		LCA248H4			LCC300H4			LCC360H4		
¹ Voltage - 50hz with neutral		380/420V-3 Ph			380/420V-3 Ph			380/420V-3 Ph		
Compressor 1	Rated Load Amps	9			10.6			12.2		
	Locked Rotor Amps	62			74			100		
Compressor 2	Rated Load Amps	9			10.6			12.2		
	Locked Rotor Amps	62			74			100		
Compressor 3	Rated Load Amps	9			10.6			12.2		
	Locked Rotor Amps	62			74			100		
Compressor 4	Rated Load Amps	9			10.6			12.2		
	Locked Rotor Amps	62			74			100		
Outdoor Fan Motors (6)	Full Load Amps (total)	1.3 (7.8)			1.3 (7.8)			1.3 (7.8)		
Indoor Blower Motor	kW (hp)	3.73 (5)	5.6 (7.5)	7.5 (10)	3.73 (5)	5.6 (7.5)	7.5 (10)	3.73 (5)	5.6 (7.5)	7.5 (10)
	Full Load Amps	7.8	11.8	15.2	7.8	11.8	15.2	7.8	11.8	15.2
² Maximum Overcurrent Protection	Unit Only	60	70	70	70	70	80	70	80	90
	Unit With (3) 0.19 kW (0.25 hp) Power Exhaust	60	70	80	70	80	80	80	80	90
³ Minimum Circuit Ampacity	Unit Only	54	58	62	61	65	69	68	72	75
	Unit With (3) 0.19 kW (0.25 hp) Power Exhaust	58	62	66	65	69	72	72	76	79

ELECTRIC HEAT DATA

Electric Heat Voltage			380/420V-3 Ph								
² Maximum Overcurrent Protection	Unit+	20.8 kW	60	70	70	70	70	80	70	80	90
	⁴ Electric Heat	31.2 kW	70	80	80	70	80	80	70	80	90
		41.6 kW	80	80	90	80	80	90	80	80	90
		62.5 kW	110	110	125	110	110	125	110	110	125
		83.4 kW	150	150	150	150	150	150	150	150	150
² Maximum Overcurrent Protection	Unit+	20.8 kW	54	58	62	61	65	69	68	72	75
	⁴ Electric Heat and (3) 0.19 kW (0.25 hp) Power Exhaust	31.2 kW	69	74	79	69	74	79	69	74	79
		41.6 kW	73	78	83	73	78	83	73	78	83
		62.5 kW	105	110	114	105	110	114	105	110	114
		83.4 kW	137	142	146	137	142	146	137	142	146
³ Minimum Circuit Ampacity	Unit+	20.8 kW	60	70	80	70	80	80	80	80	90
	⁴ Electric Heat	31.2 kW	80	80	90	80	80	90	80	80	90
		41.6 kW	80	90	90	80	90	90	80	90	90
		62.5 kW	110	125	125	110	125	125	110	125	125
		83.4 kW	150	150	175	150	150	175	150	150	175
³ Minimum Circuit Ampacity	Unit+	20.8 kW	58	62	66	65	69	72	72	76	79
	⁴ Electric Heat and (3) 0.19 kW (0.25 hp) Power Exhaust	31.2 kW	74	79	84	74	79	84	74	79	84
		41.6 kW	78	83	88	78	83	88	78	83	88
		62.5 kW	110	115	119	110	115	119	110	115	119
		83.4 kW	141	146	151	141	146	151	141	146	151

¹ Extremes of operating range are plus and minus 10% of line voltage.

² Heating, Air Conditioning, Refrigeration type breaker or fuse.

³ Refer to local electrical code to determine wire, fuse and disconnect size requirements.

⁴ Nominal kW based on 400V-3ph-50hz.

ELECTRICAL ACCESSORIES

74, 88 AND 105 KW

HIGH EFFICIENCY (R-22)		LCA248H2			LCC300H2			LCC360H2		
Voltage - 50hz with neutral		380/420V-3 Ph			380/420V-3 Ph			380/420V-3 Ph		
Indoor Blower Motor	kW (hp)	3.73 (5)	5.6 (7.5)	7.5 (10)	3.73 (5)	5.6 (7.5)	7.5 (10)	3.73 (5)	5.6 (7.5)	7.5 (10)
⁵ Electric Heat Control Module		15K92	15K92	15K92	15K92	15K92	15K92	15K92	15K92	15K92
Disconnect	Unit Only	84M13	84M13	84M13	84M13	84M13	84M13	84M13	84M13	84M13
Unit+ Electric Heat	20.8 kW	84M13	84M13	84M13	84M13	84M13	84M13	84M13	84M13	84M13
	31.2 kW	84M13	84M13	84M14	84M13	84M13	84M14	84M13	84M13	84M14
	41.6 kW	84M14	84M14	84M14	84M14	84M14	84M14	84M14	84M14	84M14
	62.5 kW	84M14	84M14	84M14	84M14	84M14	84M14	84M14	84M14	84M14
	83.4 kW	84M15	84M15	84M15	84M15	84M15	84M15	84M15	84M15	84M15
Unit+ Electric Heat and (3) 0.19 kW (0.25 hp) Power Exhaust	20.8 kW	84M13	84M13	84M13	84M13	84M13	84M13	84M13	84M13	84M13
	31.2 kW	84M13	84M13	84M14	84M13	84M13	84M14	84M13	84M13	84M14
	41.6 kW	84M14	84M14	84M14	84M14	84M14	84M14	84M14	84M14	84M14
	62.5 kW	84M14	84M14	84M14	84M14	84M14	84M14	84M14	84M14	84M14
	83.4 kW	84M15	84M15	84M15	84M15	84M15	84M15	84M15	84M15	84M15
Terminal Block		30K75	30K75	30K75	30K75	30K75	30K75	30K75	30K75	30K75
⁶ Unit Fuse Block	Unit Only	25K14	25K14	35K03	25K14	25K14	35K03	35K03	35K03	56K96
	With Standard Power Exhaust	25K14	35K03	35K03	25K14	35K03	35K03	35K03	56K96	56K96
HIGH EFFICIENCY (R-410A)		LCA248H2			LCC300H2			LCC360H2		
Voltage - 50hz with neutral		380/420V-3 Ph			380/420V-3 Ph			380/420V-3 Ph		
Indoor Blower Motor	kW (hp)	3.73 (5)	5.6 (7.5)	7.5 (10)	3.73 (5)	5.6 (7.5)	7.5 (10)	3.73 (5)	5.6 (7.5)	7.5 (10)
⁵ Electric Heat Control Module		15K92	15K92	15K92	15K92	15K92	15K92	15K92	15K92	15K92
Disconnect	Unit Only	84M13	84M13	84M13	84M13	84M13	84M13	84M13	84M14	84M14
Unit+ Electric Heat	20.8 kW	84M13	84M13	84M13	84M13	84M13	84M13	84M13	84M14	84M14
	31.2 kW	84M13	84M13	84M14	84M13	84M13	84M14	84M13	84M14	84M14
	41.6 kW	84M14	84M14	84M14	84M14	84M14	84M14	84M14	84M14	84M14
	62.5 kW	84M14	84M14	84M14	84M14	84M14	84M14	84M14	84M14	84M14
	83.4 kW	84M15	84M15	84M15	84M15	84M15	84M15	84M15	84M15	84M15
Unit+ Electric Heat and (3) 0.19 kW (0.25 hp) Power Exhaust	20.8 kW	84M13	84M13	84M13	84M13	84M13	84M13	84M13	84M14	84M14
	31.2 kW	84M13	84M13	84M14	84M13	84M13	84M14	84M13	84M14	84M14
	41.6 kW	84M14	84M14	84M14	84M14	84M14	84M14	84M14	84M14	84M14
	62.5 kW	84M14	84M14	84M14	84M14	84M14	84M14	84M14	84M14	84M14
	83.4 kW	84M15	84M15	84M15	84M15	84M15	84M15	84M15	84M15	84M15
Terminal Block		30K75	30K75	30K75	30K75	30K75	30K75	30K75	30K75	30K75
⁶ Unit Fuse Block	Unit Only	25K14	25K14	35K03	35K03	35K03	56K96	35K03	56K96	56K96
	With Standard Power Exhaust	25K14	35K03	35K03	35K03	35K03	56K96	56K96	56K96	25K15

⁵ Electric Heat Control Module provides two-stage control of electric heat. For use with 31.2 kW or larger electric heat.

⁶ Only for use with electric heat.

OUTDOOR SOUND DATA

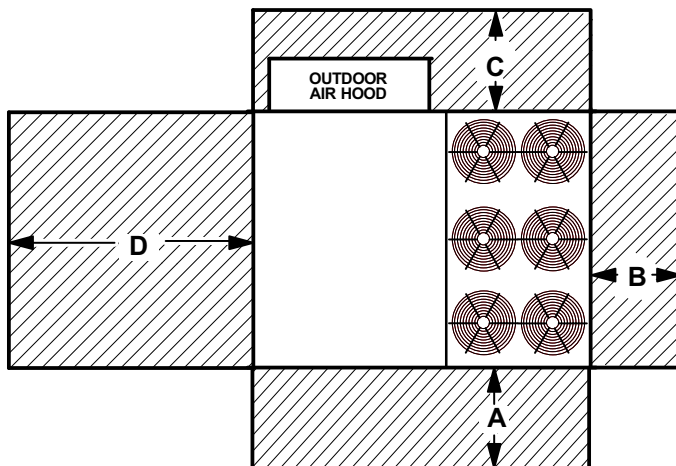
Model No.	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts							¹ Sound Rating Number (dB)
	Center Frequency - HZ							
	125	250	500	1000	2000	4000	8000	
248, 300H	79	84	88	89	85	82	73	94
360	78	85	90	91	87	82	74	95

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

¹ Sound Rating Number according to ARI Standard 370-2001.

UNIT CLEARANCES - MM (INCHES)

Unit With Economizer



1 Unit Clearance	A		B		C		D		Top Clearance
	mm	in.	mm	in.	mm	in.	mm	in.	
Service Clearance	1524	60	914	36	914	36	1676	66	Unobstructed
Minimum Operation Clearance	1143	45	914	36	914	36	1041	41	

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

1 **Service Clearance** - Required for removal of serviceable parts.

Minimum Operation Clearance - Required clearance for proper unit operation.

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

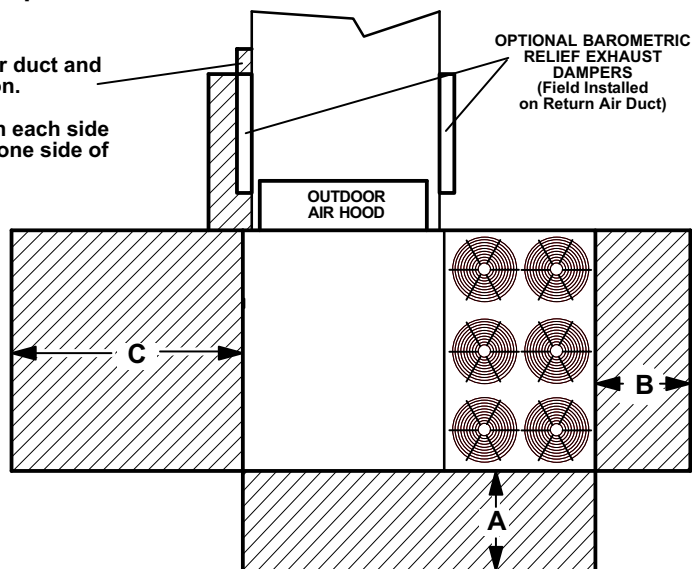
1 **Service Clearance** - Required for removal of serviceable parts.

Minimum Operation Clearance - Required clearance for proper unit operation.

Unit With Horizontal Barometric Relief Dampers

NOTE Allow adequate clearance for duct and barometric relief damper installation.

NOTE Dampers may be installed on each side of return air duct or end to end on one side of return air duct.



1 Unit Clearance	A	A	B	B	C	C	Top Clearance
	mm	in.	mm	in.	mm	in.	
Service Clearance	1524	60	914	36	1676	66	Unobstructed
Minimum Operation Clearance	1143	45	914	36	1041	41	

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

1 **Service Clearance** - Required for removal of serviceable parts.

Minimum Operation Clearance - Required clearance for proper unit operation.

OPTIONAL UNIT CONTROLLERS AND SYSTEMS INTEGRATION

FACTORY OR FIELD INSTALLED

IMC LONTALK® MODULE

The IMC LonTalk module allows communication between the Lennox IMC (M1-8) controller and a LonWorks® network. The module translates input and output variables between the Lennox protocol and the LonTalk protocol. The IMC LonTalk Module has been developed to communicate with building automation systems that support the LonMark® Space Comfort Controller (SCC) or Discharge Air Controller (DAC) functional profiles. A Lennox zone sensor, a LonTalk network zone sensor, or a LonTalk thermostat or DDC controller may be used to send the zone temperature or thermostat demands to the IMC.

The IMC LonTalk Module utilizes an FTT-10A free topology transceiver communicating at four different MSTP network speeds (6, 9, 19.2, or 76.8 kbps). It is compatible with Echelon® qualified twisted pair cable such as Lennox model no. C0MISC03AE1-, Belden 8471 or NEMA Level 4 cables. The Module can communicate up to 500 m (1640 ft.) with no repeater and up to 1000 m (3200 ft.) with one repeater. The LonWorks limit of 64 nodes per segment applies to this device. One termination module, Lennox model no. C0MISC90AE1- is required for free topology segments and two are required for doubly terminated bus topology segments. Termination modules must be field provided.

C0CTRL51AE1L

NOTE: A qualified systems integrator with adequate training and experience is required to integrate and commission the IMC LonTalk Module into a third-party LonTalk building automation system. A LonWorks network configuration software tool such as LonMaker® (or equivalent) is required to commission the LonWorks network. An external interface file (XIF) will be made available upon request.

LONWORKS NETWORK VARIABLES - INPUTS

LonMark Name	Variable Type	Description
nviApplicMode	SNVT_hvac_mode	Unit application mode
0-Auto		Auto (unit-defined operation)
1-Heat		Demand for full heating
3-Cool		Demand for full cooling
6-Off		Unit off (IMC standby)
9-Fan only		Main fan (blower) on
254-Reset		Force controller reset
255-Null		Same as auto.
nviOAMinPos		SNVT_lev_percent
nviOccManCmd	SNVT_occupancy	Zone occupied status
nviOccSchedule	SNVT_tod_event	Occupancy scheduler input used to put controller unit into different occupancy modes
nviOccSensor	SNVT_occupancy	Occupancy sensor input. Used to indicate the presence of occupants
nviSpaceDehumSP	SNVT_lev_percent	Zone relative humidity set point
nviSetpoint	SNVT_temp_p	Zone temperature setpoint
nviSetptOffset	SNVT_temp_p	Zone temp setpoint offset
nviSpaceTemp	SNVT_temp_p	Remote zone temp.
nviEmergOverride	SNVT_hvac_emerg	Emergency smoke override
nviComprEnable	SNVT_switch	Compressor enable
nviPriHeatEnable	SNVT_switch	Primary heat enable
nviAuxHeatEnable	SNVT_switch	Auxiliary heat enable

OPTIONAL UNIT CONTROLLERS AND SYSTEMS INTEGRATION

IMC LONTALK® MODULE (Continued)

LONWORKS NETWORK VARIABLES - OUTPUTS

LonMark Name	Variable Type	Description
snvoIMCVersion	Manufacturer defined	IMC firmware version. D0-D3 (ASCII)
snvoUnitID	Manufacturer defined	Unit ID. \$3x-Gas/Elect \$4x-Elect/Elect \$5x-Heat Pump
nvoUnitStatus:	SNVT_hvac_status	Unit operation mode (i.e. cool, heat, etc.)
1 - HVAC heat		
2 - HVAC morning warmup		
3 - HVAC cool		
5 - HVAC pre-cool		
6 - HVAC off		
7 - HVAC test		
8 - HVAC emergency heat		
9 - HVAC fan only		
12 - HVAC max heat		
14 - HVAC dehumidification		
129 - HVAC fresh air heating		
131 - HVAC fresh air cooling		
145 - HVAC defrost 1		
161 - HVAC defrost 2		
177 - HVAC defrost 1 2		
nvoSpaceTemp	SNVT_temp_p	Zone Temperature, effective
nvoDischAirTemp	SNVT_temp_p	Supply air temperature
nvoEffectOccup	SNVT_occupancy	Zone occupied status
nvoLocalOATemp	SNVT_temp_p	Outdoor air temperature
nvoLocalSpaceTemp	SNVT_temp_p	Zone Temperature, local
nvoOADamper	SNVT_lev_percent	Economizer damper position
nvoHeatPrimary	SNVT_lev_percent	Primary heating status
nvoHeatSecondary	SNVT_lev_percent	Heat pump electric strip heating status
nvoCoolPrimary	SNVT_lev_percent	Cooling compressor 1-4 status (on/off)
nvoEconEnabled	SNVT_switch	Economizer outdoor air suitable
nvoSupFanStatus	SNVT_switch	Supply fan status
nvoEffectSetpt	SNVT_temp_p	Zone temperature set points
snvoCurrentError	Manufacturer defined	Currently displayed error code
snvoCommStatus	Manufacturer defined	IMC Communicating
snvoErrorPointer	Manufacturer defined	Error pointer. This value points to the next available alarm code location. It runs from 0 to 83 and then returns to 0. Tracking this value and using the ten most recent IMC error codes (next variable) allows an application to 1) determine when new errors are logged by the IMC, 2) what those errors are, and 3) if any errors have been missed due to network delays or other reasons.
snvoMostRecErr1-10	Manufacturer defined	Alarm codes listed in the IMC manual
nvoSpaceCO2	SNVT_ppm	Zone CO ₂ level (PPM), local
nvoSpaceRHEff	SNVT_lev_percent	Zone relative humidity, effective
nvoSpaceRH	SNVT_lev_percent	Zone relative humidity, local
nvoEffSpaceDHSP	SNVT_lev_percent	Zone relative humidity set point
nvoDehumidifier	SNVT_switch	Dehumidification status
nvoRATemp	SNVT_temp_p	Return air temperature
nvoBldgStatPress	SNVT_press_p	Analog Input 2 (GP1 - VAV Bldg Static)
nvoDuctStatPress	SNVT_press_p	Analog Input 1 (GP1 - VAV Supply Static)
nvoExhFanStatus	SNVT_switch	Exhaust fan status

OPTIONAL UNIT CONTROLLERS AND SYSTEMS INTEGRATION

FACTORY OR FIELD INSTALLED

IMC BACNET® MODULE

The IMC BACnet module allows communication between the Lennox IMC (M1-8 or higher) controller and a BACnet MSTP network. The module translates input and output variables between the Lennox protocol and the BACnet protocol. The IMC BACnet Module has been developed to communicate with building automation systems that support the BACnet Application Specific Controller (B-ASC) device profile. A Lennox zone sensor, a BACnet network zone sensor, or a BACnet thermostat or DDC controller may be used to send the zone temperature or thermostat demands to the IMC.

The IMC BACnet Module is compatible with MSTP EIA-485 daisy-chain networks communicating at 38.4 kbps. It is compatible with twisted pair, shielded cable such as Lennox model nos. C0MISC00AE1-, C0MISC04AE1- or C0MISC01AE1- or Belden 8761, 88761. A maximum of 31 IMC BACnet Modules can be included per network. The BACnet MSTP maximum total bus length (without repeater) of 260 m (850 ft.) applies to this device. A 120 ohm resistor must be added to the last module in the daisy chain (included in field kit).

C0CTRL50AE1L

NOTE: A qualified systems integrator with adequate training and experience is required to integrate and commission the IMC BACnet Module into a third-party BACnet building automation system. A BACnet network configuration software tool is required to commission the BACnet network.

INPUTS TO IMC

BACnet Object Name	Object Type: ID: Units	Description
Application Mode Control	AO: 101:95 (No_Units)	Unit application
0 - Auto		Auto (unit-defined operation)
1 - Heat		Demand for full Heating
3 - Cool		Demand for full Cooling
6 - Off		Unit Off (IMC stand by)
9 - Fan only		Main fan (blower) on
228 - Cool 1		Thermostat input Y1
232 - Cool 2		Thermostat input Y2
236 - Cool 3		Thermostat input Y1 & Y2
225 - Heat 1		Thermostat input W1
226 - Heat 2 (heat pump only)		Thermostat input W2 (heat pump emergency heat)
227 - Heat 3		Thermostat input W1 & W2
229 - Supermarket Reheat Lo		Thermostat input Y1 & W1
230 - Supermarket Reheat Hi		Thermostat input Y1 & W2
254 - Reset		Force controller reset
255 - Null		Same as auto.
Outdoor Air Min Pos Control	AO: 102 : 98 (Percent)	Min economizer damper position
Occupancy Override Control	AO: 103: 95 (No_Units)	Zone occupied status
Occupancy Scheduler Control	AO: 104: 95 (No_Units)	Occupancy scheduler input used to put controller unit into different occupancy modes.
Occupancy Sensor Input	AO: 107: 95 (No_Units)	Occupancy sensor input. Used to indicate the presence of occupants
Space Dehumidification Setpt	AO: 108: 98 (Percent)	Zone relative humidity set point
Temperature Setpoint (abs)	AO: 109: 64 (Degrees - Fahrenheit)	Zone temperature setpoint
Temperature Setpoint Offset	AO: 110: 64 (Degrees - Fahrenheit)	Zone temp setpoint offset
Space Temperature Input	AO: 113: 64 (Degrees - Fahrenheit)	Remote zone temp.
Emergency Override Control	AO: 114: 95 (No_Units)	Emergency smoke override
Compressor Enable Control	AO: 115: 98 (Percent)	Compressor enable
Primary Heat Enable Control	AO: 117: 98 (Percent)	Primary heat enable
Auxiliary Heat Enable Control	AO: 119: 98 (Percent)	Auxiliary heat enable

OPTIONAL UNIT CONTROLLERS AND SYSTEMS INTEGRATION

IMC BACNET® MODULE (Continued)

OUTPUTS FROM IMC

OUTPUTS FROM IMC

IMC Version [00].....[07]	AI: 200-207 : 95 (No_Units)	IMC firmware version. (null terminated ASCII)
Unit ID	AI: 231 : 95 (No_Units)	Unit ID \$3x-Gas/Elect. \$4x-Elect/Elect. \$5x-Heat Pump
Unit Status	AI :232 : 95 (No_Units)	Unit operation mode (i.e. cool, heat, etc.)
1 - HVAC heat		
2 - HVAC morning warm-up		
3 - HVAC cool		
5 - HVAC pre-cool		
6 - HVAC off		
7 - HVAC test		
8 - HVAC emergency heat		
9 - HVAC fan only		
12 - HVAC max heat		
14 - HVAC dehumidification		
129 - HVAC fresh air heating		
131 - HVAC fresh air cooling		
145 - HVAC defrost 1		
161 - HVAC defrost 2		
177 - HVAC defrost 1, 2		
Space Temperature	AI: 239 : 64 : 95 (Degrees - Fahrenheit))	
Discharge Air Temperature	AI: 240 : 64 (Degrees - Fahrenheit)	Supply air temperature
Effective Occupancy	AI : 241 : 95 (No_ Unit)	Zone occupied status
Local Outside Air Temperature	AI 242 : 64 (Degrees - Fahrenheit)	Outdoor air temperature
Local Space Temperature	AI: 243 :64 (Degrees Fahrenheit)	Zone Temperature, local
Outside Air Damper	AI: 244 : 98 (Percent)	Economizer damper position
Heat Primary	AI: 245 :98 (Percent)	Primary heating status
Heat Secondary	AI: 246 : 98 (Percent)	Heat pump electric strip heating status
Cool Primary	AI: 247 : 98 (Percent)	Cooling compressor 1-4 status (on/off)
Economizer Enabled	AI: 248 : 95 (Percent)	Economizer outdoor air suitable
Supply Fan Status	AI: 250 : 98 (Percent)	Supply fan status
Space Temperature Set Point (Eff)	AI: 252 :64 (Degrees Fahrenheit)	Zone temperature set points
Current Error	AI: 253 : 95 (No_Units)	Currently displayed error code
Error Pointer	AI: 254 : 95 (No_Units)	Error pointer. This value points to the next available alarm code location. It runs from 0 to 83 and then rolls-over to 0. Tracking this value and using the ten most recent error codes (below) allows an application to determine when new errors are logged by the IMC, what those errors are, and if any errors have been missed due to network delays or for any other reason.
Most recent Error 1..10	AI: 255-264 : 95 (No _Units)	IMC alarm codes as listed in the IMC manual.
Space CO2 Sensor (Local)	AI : 274 :96 (Parts per million)	Zone CO ₂ level (PPM), local
Space Humidity (Local)	AI: 276 : 98 (Percent)	Zone relative humidity, local
Dehumidification Set Point (Eff)	AI: 278 : 98 (Percent)	Zone relative humidity set point
Dehumidification Status	AI: 279 : 95 (No_Units)	Dehumidification status
Return Air Temperature	AI: 281 :64 (Degrees Fahrenheit))	Return air temperature
Building Static Pressure	AI: 282 : 64 (Inches of water)	Analog Input 2 (GP1 - VAV Bldg Static)
Duct Static Pressure	AI: 282 : 64 (Inches of water)	Analog Input 1 (GP1 - VAV Supply Static)
Exhaust Fan Status	AI: 285 :98 (Percent)	Exhaust fan status
Controller Online	B1:100 :95 (No_Units)	IMC Communicating

OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS - FIELD INSTALLED

COMMERCIAL TOUCHSCREEN THERMOSTAT



Intuitive Touchscreen Interface - **Two Stage Heating / Two Stage Cooling Conventional or Heat Pump** - Seven Day Programmable - Four Time Periods/Day - Economizer Output - Title 24 Compliant - ENERGY STAR® Qualified - Backlit Display - Automatic Changeover

C0STAT02AE1L

Sensors For Touchscreen Thermostat

1 Remote non-adjustable wall mount 20k temperature sensor	C0SNZN01AE1-
1 Remote non-adjustable wall mount 10k averaging temperature sensor	C0SNZN73AE1-
1 Remote non-adjustable duct mount temperature sensor	C0SNDC00AE1-
Outdoor temperature sensor	C0SNSR03AE1-

Accessories For Touchscreen Thermostat

Locking cover (clear)	C0MISC15AE1-
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¹ Remote sensors for C0STAT02AE1L can be applied in the following combinations: (1) C0SNZN01AE1-, (2) C0SNZN73AE1-, (2) C0SNZN01AE1- and (1) C0SNZN73AE1-, (4) C0SNZN01AE1-, (3) C0SNZN01AE1- and (2) C0SNZN73AE1.

DIGITAL NON-PROGRAMMABLE THERMOSTATS



Intuitive Interface - Automatic Changeover - Simple Up and Down Temperature Control

Two-stage heating / cooling conventional systems	C0STAT10AE1L
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Sensor For Digital Non-Programmable Thermostats Above

Remote wall mounted temperature sensor	C0SNZN00AE1-
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Intuitive Interface - Automatic Changeover - Backlit Display - Simple Up and Down Temperature Control

One-stage heating / cooling conventional systems	C0STAT12AE1L
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Sensor For Digital Non-Programmable Thermostats Above

Outdoor temperature sensor	C0SNSR04AE1-
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Accessories For Digital Non-Programmable Thermostats Above

Optional wall mounting plate	C0MISC17AE1-
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WEIGHT DATA

Model Number	Net		Shipping	
	kg	lbs.	kg	lbs.
All - Base Unit	1320	2910	1415	3120
All - Max. Unit	1624	3580	1719	3790

OPTIONS / ACCESSORIES

		Weight	
		kg	lbs.
CEILING DIFFUSERS			
Step-Down	LARTD30/36	198	437
Flush	LAFD30/36	188	414
Transitions	LASRT30/36	39	85
ECONOMIZER/OUTDOOR AIR			
Economizer	LAREMD30/36	54	119
Barometric Relief			
Down-Flow Barometric Relief Dampers	LAGED30/36	20	45
Horizontal Barometric Relief Dampers	LAGEDH30/36	9	20
Outdoor Air Dampers			
Damper Section (down-flow) - Motorized	LAOADM30/36	33	72
Damper Section (down-flow) - Manual	LAOAD30/36	31	68
Outdoor Air Hood (down-flow)	LAOAH30/36	34	76
Power Exhaust			
Power Exhaust	Standard Static - LAPEF30/36	45	99
ELECTRIC HEAT (TOTAL)			
	27 kW - one each - EHA360-15 & EHA360S-15	27	59
	31.2 kW - two each - EHA360-22.5	35	76
	41.6 kW - two each - EHA150-30	35	76
	62.5 kW - two each - EHA150-45	38	84
	83.4 kW - two each - EHA150-60	45	98
PACKAGING			
LTL Packaging (less than truck load)		136	300
ROOF CURBS - STANDARD			
Down-Flow			
356 mm (14 in.) height	LARMF18/36-14	73	160
610 mm (24 in.) height	LARMF18/36-24	100	220
Horizontal			
762 mm (30 in.) height	LARMFH30/36-30	202	445
1041 mm (41 in.) height	LARMFH30/36-41	329	725

Base Unit - The unit with low fire heat exchanger NO OPTIONS.

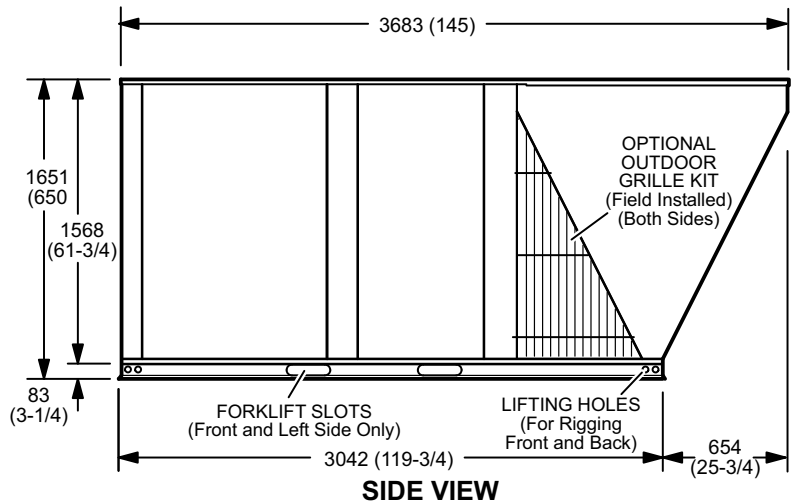
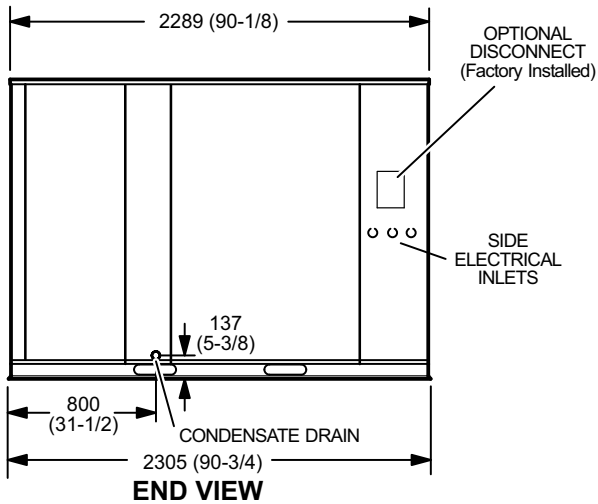
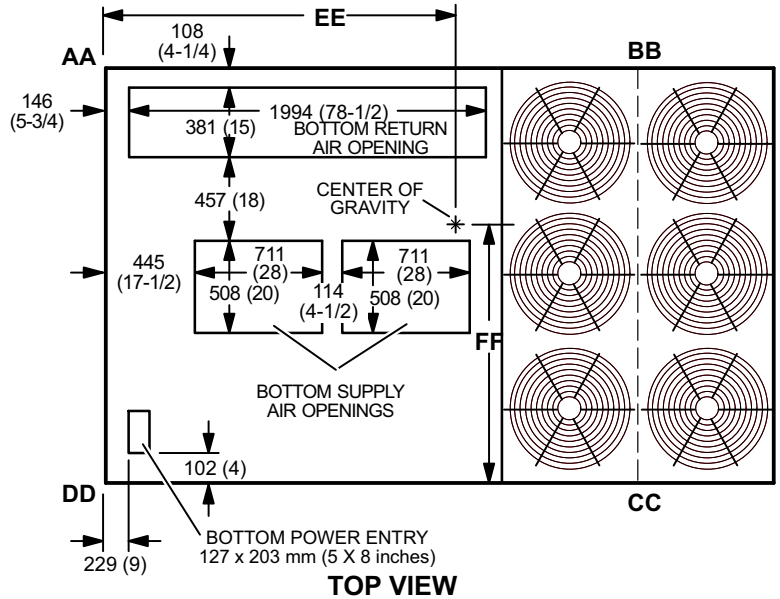
Max. Unit - The unit with ALL OPTIONS Installed. (Economizer, Power Exhaust Fans, Controls).

DIMENSIONS - MM (INCHES)

Model Number	CORNER WEIGHTS								CENTER OF GRAVITY			
	AA		BB		CC		DD		EE		FF	
	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	mm	inch	mm	inch
All - Base Unit	258	569	284	626	408	899	370	816	1610	63-3/8	946	37-1/4
All - Max. Unit	323	713	332	732	421	929	411	906	1556	61-1/4	1019	40-1/8

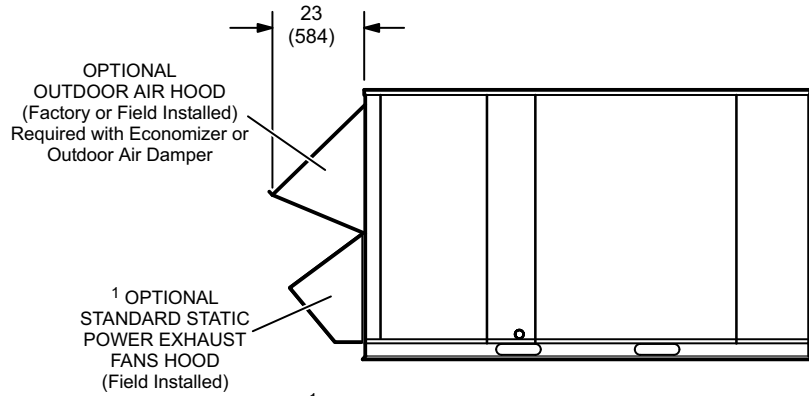
Base Unit - The unit with low fire heat exchanger NO OPTIONS.

Max. Unit - The unit with ALL OPTIONS Installed. (Economizer, Standard Power Exhaust Fans, Controls).



ACCESSORY DIMENSIONS - MM (INCHES)

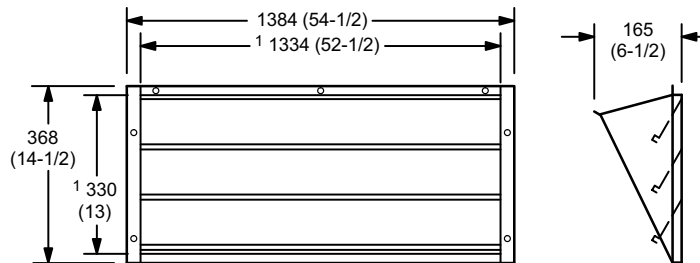
OPTIONAL OUTDOOR AIR HOOD DETAIL WITH STANDARD STATIC POWER EXHAUST FANS



¹ Field Installed in Return Air Duct for Horizontal Applications.

HORIZONTAL BAROMETRIC RELIEF DAMPERS

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



FRONT VIEW

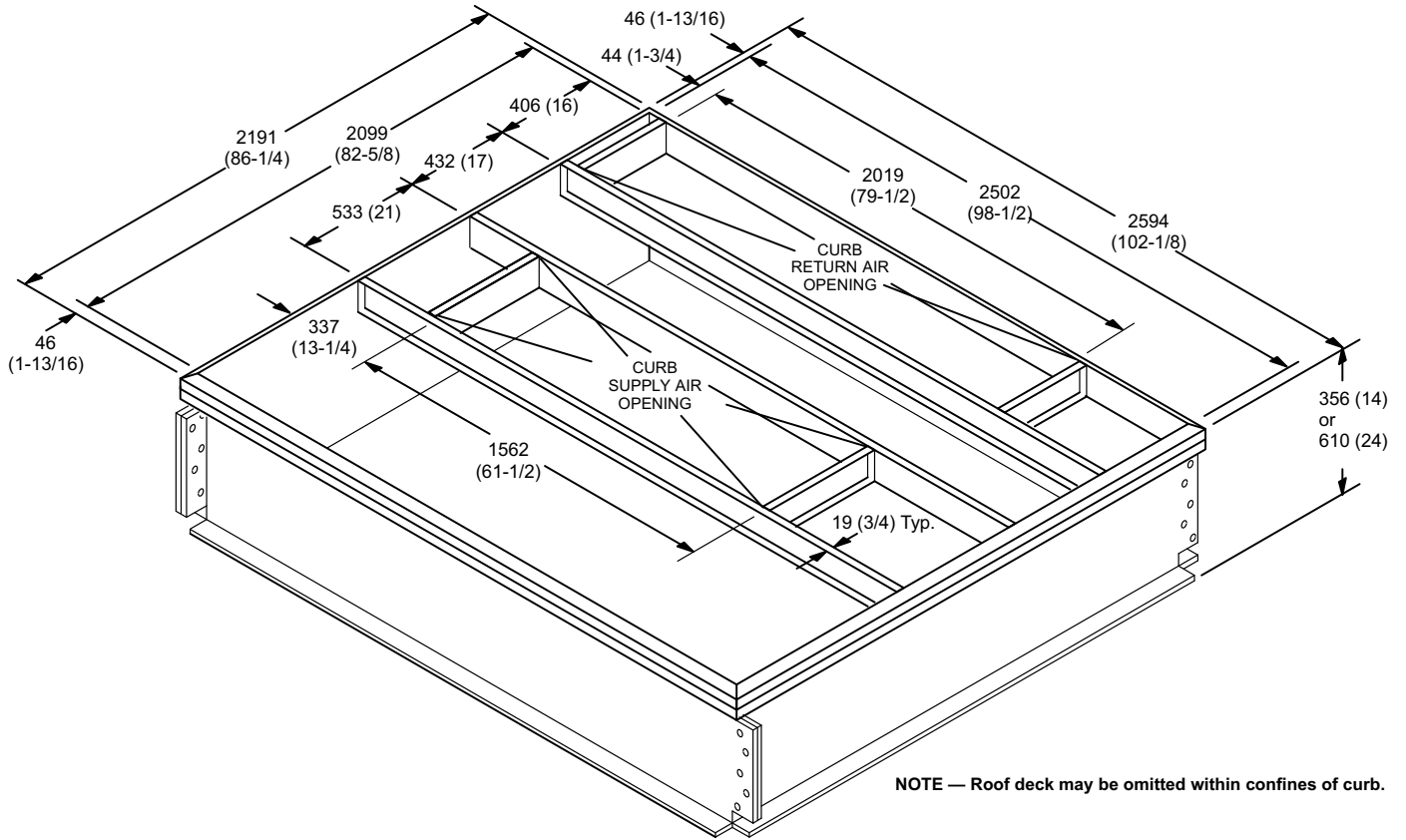
SIDE VIEW

NOTE - Two furnished per order no.

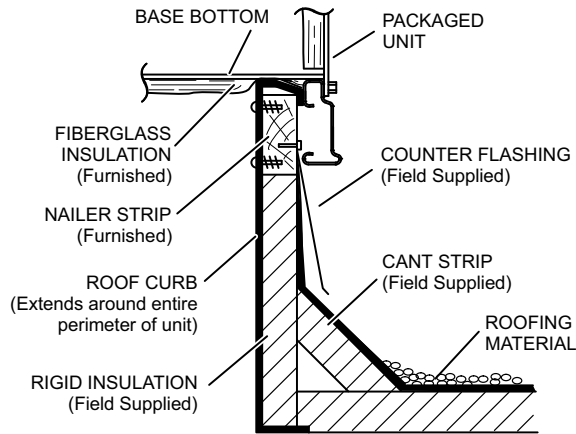
¹ NOTE - Opening size required in return air duct.

ACCESSORY DIMENSIONS - MM (INCHES)

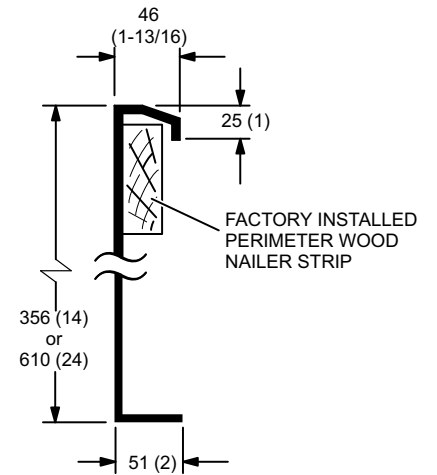
STANDARD ROOF CURBS - DOUBLE DUCT OPENING



TYPICAL FLASHING DETAIL FOR ROOF CURB

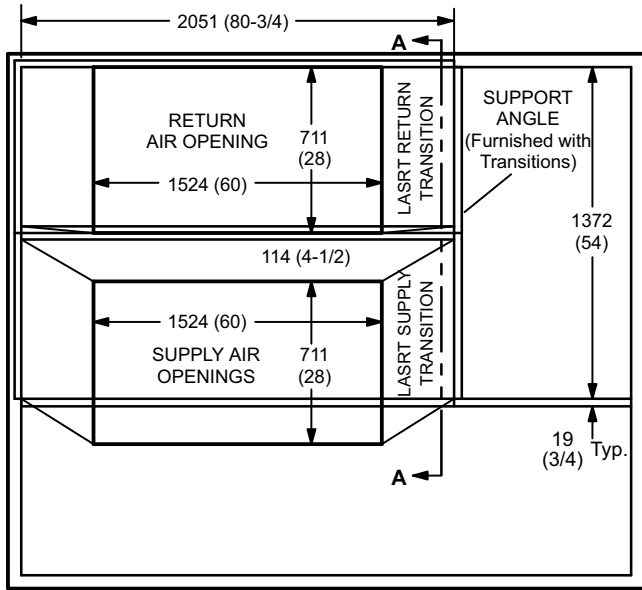


DETAIL ROOF CURB

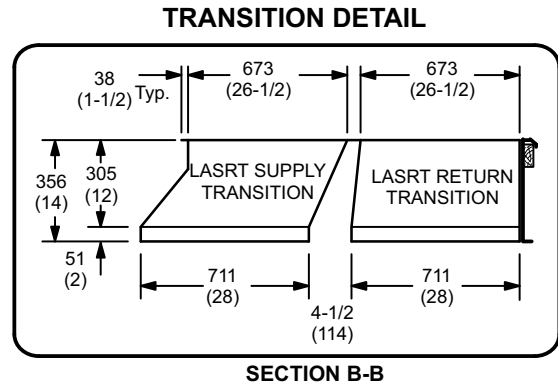


ACCESSORY DIMENSIONS - MM (INCHES)

ROOF CURBS WITH SUPPLY & RETURN AIR TRANSITIONS FOR CEILING DIFFUSERS

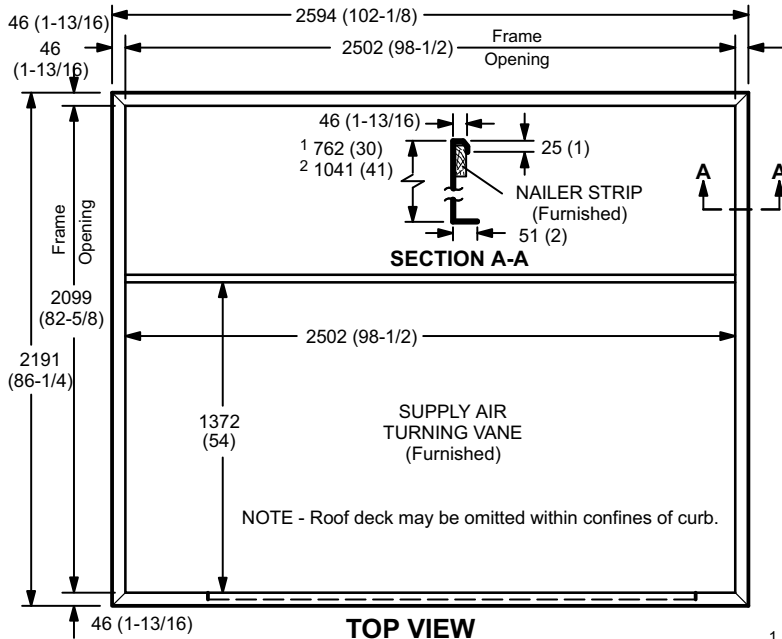


TOP VIEW



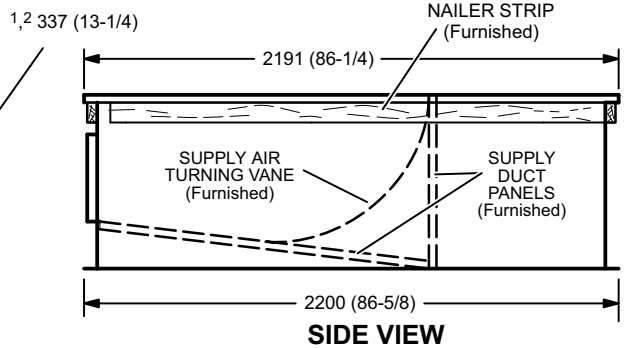
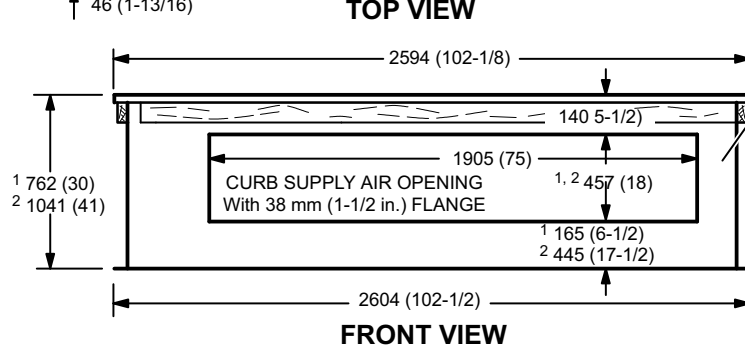
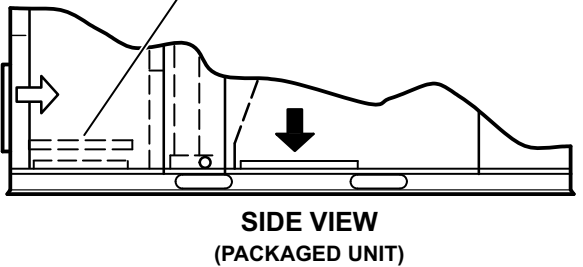
ACCESSORY DIMENSIONS - MM (INCHES)

HORIZONTAL ROOF CURBS - Requires Optional Horizontal Return Air Panel Kit



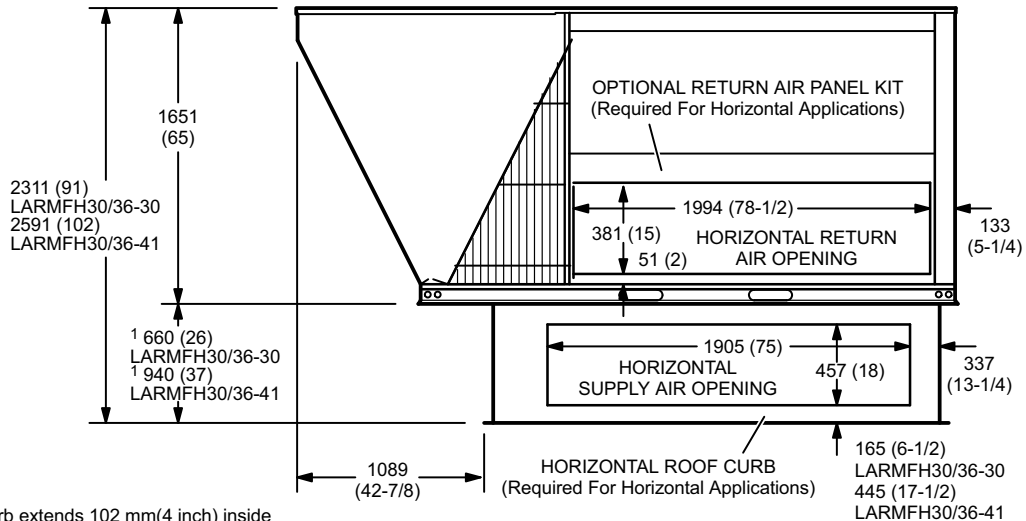
NOTE LARMFH30/36-30 is designed for horizontal discharge when unit is mounted on a rooftop.
LARMFH30/36-41 is designed for horizontal discharge when unit is mounted on a slab.

PANEL TO COVER RETURN AIR OPENING IN BOTTOM OF UNIT (Furnished With Optional Horizontal Return Air Panel Kit)



¹ LARMFH30/36-30 ² LARMFH30/36-41

HORIZONTAL SUPPLY AND RETURN AIR OPENINGS ROOFTOP UNIT WITH HORIZONTAL ROOF CURB

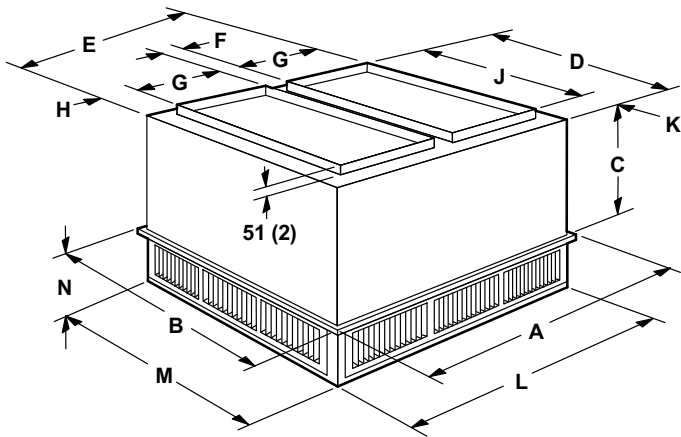


¹ NOTE - Top of Curb extends 102 mm(4 inch) inside bottom of unit base. See Typical Flashing Detail.

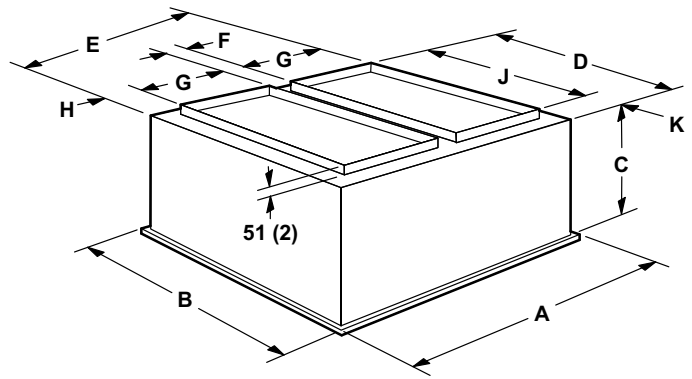
ACCESSORY DIMENSIONS - MM (INCHES)

COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER



FLUSH CEILING DIFFUSER



Model Number		LARTD30/36
A	mm	1667
	in.	65-5/8
B	mm	1667
	in.	65-5/8
C	mm	1029
	in.	40-1/2
D	mm	1613
	in.	63-1/2
E	mm	1613
	in.	63-1/2
F	mm	114
	in.	4-1/2
G	mm	711
	in.	28
H	mm	38
	in.	1-1/2
J	mm	1524
	in.	60
K	mm	44
	in.	1-3/4
L	mm	1613
	in.	63-1/2
M	mm	1613
	in.	63-1/2
N	mm	308
	in.	12-1/8
Duct Size	mm	711 x 1524
	in.	28 x 60

Model Number		LAFD30/36
A	mm	1667
	in.	65-5/8
B	mm	1667
	in.	65-5/8
C	mm	1016
	in.	40
D	mm	1613
	in.	63-1/2
E	mm	1613
	in.	63-1/2
F	mm	108
	in.	4-1/4
G	mm	711
	in.	28
H	mm	32
	in.	1-5/8
J	mm	1524
	in.	60
K	mm	44
	in.	1-3/4
Duct Size	mm	711 x 1524
	in.	28 x 60

REVISIONS

Sections	Description of Change
Options/Accessories	Revised Condensate Drain Pan Kits.



REGISTERED
QUALITY
SYSTEMS



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