LC

L SERIES® ROOFTOP UNITS
50 HZ

ENGINEERING DATA

Bulletin No. 490119
December 2007

Nominal Cooling Capacity - 46 to 88 kW
Net Cooling Capacity - 41.1 to 76.2 kW
Optional Electric Heat Capacity - 10.4 to 62.5 kW

MODEL NUMBER IDENTIFICATION

L C C 240 S 2 B N 1 M

Brand/Family
L = L Series Product Line

Unit Type
C = Packaged Electric Cooling w/ Optional Electric Heat

Major Design Sequence
A = 1st Generation
B = 2nd Generation
C = 3rd Generation
E = 4th Generation

Nominal Cooling Capacity - kW
156 = 46 kW
180= 53 kW
210 = 62 kW
240 = 70 kW
300 = 88 kW

Cooling Efficiency
S = Standard Efficiency
H = High Efficiency

Refrigerant Type
2 = R-22
4 = R-410A

Blower Type
B = Constant Air Volume (CAV) - Belt Drive

Factory Installed Electric Heat
(Nominal kW at 400V-3ph-50hz)
N = No Heat
E = 10.4 kW Electric Heat
J = 20.8 kW Electric Heat
K = 31.2 kW Electric Heat
L = 41.6 kW Electric Heat
P = 62.5 kW Electric Heat

Minor Design Sequence
1 = 1st Revision
2 = 2nd Revision
3 = 3rd Revision

Voltage
M = 380/420V-3 phase-50hz

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FEATURES AND BENEFITS

PERFORMANCE / QUALITY

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

Cooling performance is rated at test conditions included in Air-Conditioning and Refrigeration Institute (ARI) Standard 340/360-2004 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.

Two efficiency levels provide flexibility.

System can operate from -17.7°C to 51.6°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 density minimizes air pressure drop. 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 (PVC) coated fan guard furnished.

Refrigerant Choice

R-22 or R-410A refrigerant.

REQUIRED SELECTIONS

Cooling Capacity

Specify the nominal cooling capacity of the unit

Cooling Efficiency

Specify either standard or high efficiency.

Refrigerant Choice

Specify R-22 or R-410A refrigerant.

OPTIONS / ACCESSORIES

Factory Installed

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).

ELECTRICAL

OPTIONS/ACCESSORIES

Factory or Field Installed

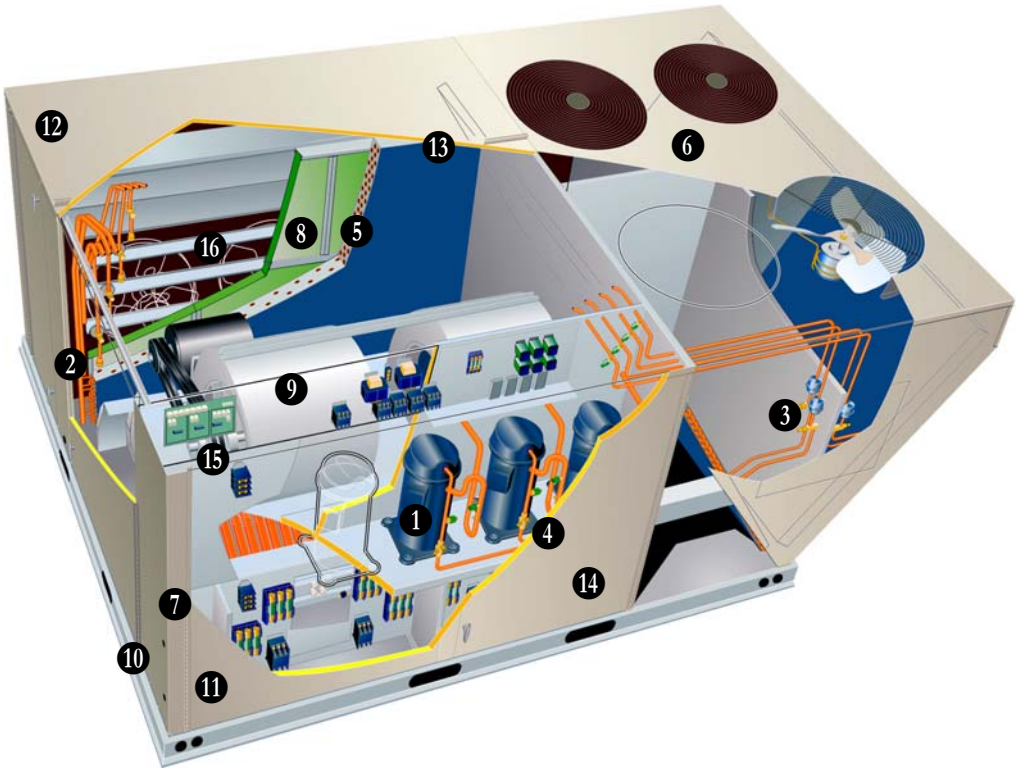
Electric Heat

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. See Electrical / Electric Heat tables pages 29-33 for ordering information.

7 Disconnect Switch up to 250 Amp

Accessible from outside of unit, spring loaded weatherproof cover furnished. Main power to the unit is field connected to the disconnect which allows all power to be shut off for service. See Electrical / Electric Heat tables for field installed disconnect switches.

FEATURES AND BENEFITS



INDOOR AIR QUALITY

8 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.

Replacement Filter Media Kit With Frame

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

Indoor Air Quality (CO_2) Sensor

Monitors CO_2 levels, reports to IMC board which adjusts economizer dampers as needed.

9 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.

Motor Efficiency

Specify standard or high.

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 Standard or High Efficiency Blower motor (See Blower Data Table for specifications).
Order one drive kit, see Drive Kit Specifications Table.

CABINET

Construction

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

10 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.

11 Power Entry

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

12 Exterior Panels

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

13 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.

CABINET - CONTINUED

14 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.

REQUIRED SELECTIONS

Air Flow Configuration

Specify horizontal or down-flow.

OPTIONS / ACCESSORIES

Factory Installed

Corrosion Protection

Phenolic epoxy coating, applied to condenser coils (with painted base section) and evaporator coils (with painted base and painted blower housings), factory applied to either section or both sections.

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.

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)

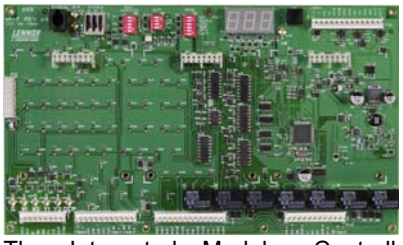
Optional factory installed liquid and discharge service valves allow refrigerant to be isolated to the high side for service work on the low side of the refrigeration system.

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 Controller (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.

Built-in Control Parameter Defaults - No programming required.

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

DDC Compatible - Various third party DDC controllers can be field installed.

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 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, CO_2 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.

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 or building static differential pressure transducer.

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.

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

Indoor Air Quality Input - The IMC is Demand Control Ventilation ready from the factory (optional field installed CO_2 sensor required). Two modes of operation are available: setpoint and proportional.

1 - Setpoint - Opens the economizer dampers to full position when CO_2 setpoint level is reached.

2 - Proportional - Opens the dampers at the first set point and gradually increases it as the CO_2 level increases until the second setpoint is reached.

Low Ambient Controls - Allows unit cooling operation down to 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 or L Connection® Network controllers 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 for controlling humidity for process air applications such as supermarkets. Field installed relative humidity sensor or dehumidistat can be used.

On-Demand Dehumidification - 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. CAV models only.

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 IMC (Integrated Control Module) (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

Commercial Control Systems

Thermostats

Control system and thermostat options. Aftermarket unit controller options. See See Page 35.

Field Installed

Humidity Sensor Kit, Remote Mounted

Humidity sensor required with Supermarket reheat field selectable option.

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 Motorized

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.

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 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

Two, 250 Watt (1/3 hp) motors with 508 mm (20 in.), five blade propeller-type fans with a total power input of 750 Watts and a total air volume of 4070 L/s (8630 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.

Power Exhaust Control Options:

Damper Position Control

IMC controls exhaust fan based on economizer damper position.

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 roof curb corners fasten together with furnished hardware.

Cliplock curbs use interlocking tabs to fasten together. No tools required.

Standard Down-Flow

US National Roofing Contractors Approved, available in 356 and 610 mm (14 and 24 inch) 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 660, 762, 940, and 1041 mm (26, 30, 37 and 41 inch) heights. Optional Insulation Kit is available to help prevent sweating.

Cliplock 1000 Full Perimeter Down-Flow

Available in 203, 356, 457, and 610 mm (8, 14, 18, and 24 inch) heights.

OPTIONS / ACCESSORIES

Item		Catalog No.	156	180	210	240	300S
COOLING SYSTEM							
Condensate Drain Trap	Polyvinyl Chloride (PVC) - LTACDKP09/36	**76M18**	⊗	⊗	⊗	⊗	⊗
	Copper - LTACDKC09/36	**76M19**	⊗	⊗	⊗	⊗	⊗
Corrosion Protection		Factory	○	○	○	○	○
Efficiency	Standard	Factory		○	○	○	○
	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	1.5 kW (2 hp) Standard Efficiency	Factory	○				
	2.2 kW (3 hp) Standard Efficiency	Factory	○	○	○		
	3.7 kW (5 hp) Standard Efficiency	Factory	○	○	○	○	○
	5.6 kW (7.5 hp) Standard Efficiency	Factory		○	○	○	○
	7.5 kW (10 hp) Standard Efficiency	Factory				○	○
CABINET							
Coil Guards		**88K52**	**x**	**x**	**x**	**x**	**x**
Grille Guards		**72K78**	**x**	**x**	**x**	**x**	**x**
Hail Guards		**88K25**	**x**	**x**	**x**	**x**	**x**
Horizontal Return Air Panel Kit		**87M00**	**x**	**x**	**x**	**x**	**x**
CONTROLS							
Blower Proving Switch	C0SWCH01AE1-	**30K49**	⊗	⊗	⊗	⊗	⊗
Dirty Filter Switch	C0SWCH00AE1-	**30K48**	⊗	⊗	⊗	⊗	⊗
Fresh Air Tempering	C0SNDC03AE1-	**45L78**	⊗	⊗	⊗	⊗	⊗
Smoke Detector - Supply	LTSASDK10/36	**70K87**	⊗	⊗	⊗	⊗	⊗
Smoke Detector - Return	LTARSDK10/30	**70K86**	⊗	⊗	⊗	⊗	⊗
INDOOR AIR QUALITY							
Air Filters							
Healthy Climate® High Efficiency Air Filters 610 x 610 x 51 mm (24 x 24 x 2 in.) - order 6 per unit	MERV 11 - C1FLTR10C-1-	**97L87**	⊗	⊗	⊗	⊗	⊗
	MERV 15 - C1FLTR50C-1-	**28W05**	**x**	**x**	**x**	**x**	**x**
Replaceable Media Filter With Metal Mesh Frame (includes non-pleated filter media)	C1FLTR30C - order 6 per unit 610 x 610 x 51 mm (24 x 24 x 2 in)	**44N61**	**x**	**x**	**x**	**x**	**x**
Indoor Air Quality (Co_2) Sensors							
Sensor - Wall-mount, off-white plastic cover with LCD display	C0SNSR50AE1L	**77N39**	**x**	**x**	**x**	**x**	**x**
Sensor - Wall-mount, off-white plastic cover, no display	C0SNSR52AE1L	**87N53**	**x**	**x**	**x**	**x**	**x**
Sensor - Black plastic case w/ LCD display, rated for plenum mounting	C0SNSR51AE1L	**87N52**	**x**	**x**	**x**	**x**	**x**
Sensor - Wall-mount, black plastic case, no display, rated for plenum mounting	C0MISC19AE1	**87N54**	**x**	**x**	**x**	**x**	**x**
CO_2 Sensor Duct Mounting Kit - for downflow applications	C0MISC19AE1-	**85L43**	**x**	**x**	**x**	**x**	**x**
Aspiration Box - for duct mounting non-plenum rated CO_2 sensors (**87N53** or **77N39**)	C0MISC16AE1-	**90N43**	**x**	**x**	**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)
X - Field Installed.

OPTIONS / ACCESSORIES

Item		Catalog No.	156	180	210	240	300S
[1] ELECTRIC HEAT -380/420V-3 PH							
10.4 kW	Order One each - EHA240-7.5 EHA240S-7.5	**99J18** **99J19**	⊗	⊗	⊗	⊗	⊗
20.8 kW	Order One each - EHA156-15-G EHA156S-15-G	**86K56** **86K59**	⊗				
	Order One each - EHA360-15 EHA360S-15	**99J24** **99J25**		⊗	⊗	⊗	⊗
31.2 kW	Order Two Each - EHA156-22.5	**86K11**	⊗				
	Order Two Each - EHA360-22.5	**99J29**		⊗	⊗	⊗	⊗
41.6 kW	Order Two Each - EHA156-30	**86K14**	⊗				
	Order Two Each - EHA150-30	**99J08**		⊗	⊗	⊗	⊗
62.5 kW	Order Two Each - EHA360-45	**99J32**			⊗	⊗	⊗
ELECTRIC HEAT ACCESSORIES/OPTIONS - See Electrical / Electric Heat Tables for selection							
LTB2 Terminal Block	175 Amp - LTB2-175	**30K75**	⊗	⊗	⊗	⊗	⊗
	335 Amp - LTB2-335	**30K76**	⊗	⊗	⊗	⊗	⊗
Electric Heat Control Module		**15K92**	⊗	⊗	⊗	⊗	⊗
Unit Fuse Block - See Electrical / Electric Heat Tables for selection			⊗	⊗	⊗	⊗	⊗
ELECTRICAL							
Voltage - 50 hz with neutral	380/420V - 3 phase	Factory	○	○	○	○	○
Disconnect Switch - See Electrical / Electric Heat Tables for selection	80 Amp	**84M13**	⊗	⊗	⊗	⊗	⊗
	150 Amp	**84M14**	⊗	⊗	⊗	⊗	⊗
	250 Amp	**84M15**	⊗	⊗	⊗	⊗	⊗
ECONOMIZER							
Economizer - Order Hood Separately	LAREMD18/24	**16K95**	⊗	⊗	⊗	⊗	⊗
Outdoor Air Hood (down-flow) Number of Filters - 406 x 635 x 25 mm (16 x 25 x 1 in.)	C1HOOD10C (3)	**85M25**	⊗	⊗	⊗	⊗	⊗
Economizer Controls							
Differential Enthalpy	C1SNSR07AE1	**86M33**	⊗	⊗	⊗	⊗	⊗
Single Enthalpy	C1SNSR06AE1	**86M32**	⊗	⊗	⊗	⊗	⊗
Global, Enthalpy	Sensor Field Provided	Factory	○	○	○	○	○
Differential Sensible	Furnished	Factory	○	○	○	○	○
Barometric Relief							
Down-Flow Barometric Relief Dampers Order Hood Separately	LAGED18/24	**16K98**	⊗	⊗	⊗	⊗	⊗
Hood for Down-Flow LAGED	C1HOOD20C-1	**85M26**	⊗	⊗	⊗	⊗	⊗
Horizontal Barometric Relief Dampers Hood Furnished	LAGEDH18/24	**16K99**	⊗	⊗	⊗	⊗	⊗
OUTDOOR AIR							
Outdoor Air Dampers							
Damper Section (down-flow) - Order Hood Separately	Motorized - LAOADM18/24	**16K94**	⊗	⊗	⊗	⊗	⊗
	Manual - LAOAD18/24	**16K93**	⊗	⊗	⊗	⊗	⊗
Outdoor Air Hood (down-flow) - Number of Filters - 406 x 635 x 25 mm (16 x 25 x 1 in.)	C1HOOD10C-1 (3)	**85M25**	⊗	⊗	⊗	⊗	⊗
Power Exhaust							
Standard Static	380/420V - C1PWRE20C-1M	**85M40**	⊗	⊗	⊗	⊗	⊗

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

[1] Nominal kW at 400V-3ph-50hz. Electric heat model numbers are based on nominal kW for US applications.

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

○ - Configure to Order (Factory Installed)

X - Field Installed.

OPTIONS / ACCESSORIES

Item		Catalog No.	156	180	210	240	300S
ROOF CURBS - CLIPLOCK 1000							
Down-Flow							
203 mm (8 in.) height	C1CURB40CD1	**26W32**	x	x	x	x	x
356 mm (14 in.) height	LARMF18/30S-14	**33K44**	x	x	x	x	x
457 mm (18 in.) height	LARMF18/30S-18	**33K45**	x	x	x	x	x
610 mm (24 in.) height	LARMF18/30S-24	**33K46**	x	x	x	x	x
ROOF CURBS - STANDARD							
Down-Flow							
356 mm (14 in.) height	LARMF18/36-14	**16K87**	x	x	x	x	x
610 mm (24 in.) height	LARMF18/36-24	**16K88**	x	x	x	x	x
Horizontal							
660 mm (26 in.) height - Rooftop Applications	LARMFH18/24-26	**97J33**	x	x	x	x	x
940 mm (37 in.) height - Slab Applications	LARMFH18/24-37	**38K53**	x	x	x	x	x
762 mm (30 in.) height - Rooftop applications	LARMFH30/36-30	**33K79**					x
1041 mm (41 in.) height - Slab applications	LARMFH30/36-41	**38K54**					x
Horizontal Air Panel Kit	C1HAP10C-1	**87M00**	x	x	x	x	x
Insulation Kits							
for LARMFH18/24-26	C1INSU11C-1	**73K32**	x	x	x	x	x
for LARMFH18/24-37	C1INSU13C-1	**73K34**	x	x	x	x	x
for LARMFH30/36-30		**73K33**					x
for LARMFH30/36-41		**73K35**					x
CEILING DIFFUSERS							
Step-Down - Order one	RTD11-185	**29G06**	x	x			
	RTD11-275-R	**29G07**			x	x	x
Flush - Order one	FD11-185	**29G10**	x	x			
	FD11-275-R	**29G11**			x	x	x
Transitions (Supply and Return) - Order one	LASRT18	**19K01**	x	x			
	LASRT21/24	**19K02**			x	x	x

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

SPECIFICATIONS

General Data	Nominal Size		**46 kW**		
	Model No.		**LCC156H2B**		**LCC156H4B**
	Efficiency Type		**High**		**High**
Cooling Performance	Gross Cooling Capacity - kW (Btuh)		42.4 (144 900)		42.4 (144 900)
	[1] Net Cooling Capacity - kW (Btuh)		41.1 (140 300)		41.1 (140 300)
	ARI Rated Air Flow - L/s (cfm)		2405 (5100)		2455 (5200)
	Total Unit Power (kW)		11.5		11.5
	[1] EER (Btuh/Watt)		12.2		12.2
	[2] Integrated Part Load Value (Btuh/Watt)		13.3		13.3
	Refrigerant Type		R-22		R-410
	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.)
Compressor Type (no.)			Scroll (3)		Scroll (3)
Outdoor Coils	Net face area - m^2 (sq. ft.) total		5.25 (56.5)		5.25 (56.5)
	Tube diameter - mm (in.) - No. of rows		9.5 (3/8) - 2		9.5 (3/8) - 2
	Fins per meter (inch)		787 (20)		787 (20)
Outdoor Coil Fans	Motor Watts (horsepower)		(4) 249 (1/3)		(4) 249 (1/3)
	Motor rev/min		896		896
	Total Motor watts		1065		1065
	Diameter - mm (in.) - No. of blades		(4) 610 (24) - 3		(4) 610 (24) - 3
	Total Air volume - L/s (cfm)		6075 (12 900)		6075 (12 900)
Indoor Coils	Net face area - m^2 (sq. ft.) total		2.07 (22.3)		2.07 (22.3)
	Tube diameter - mm (in. - No. of rows		9.5 (3/8) - 3		9.5 (3/8) - 3
	Fins per meter (inch)		551 (14)		551 (14)
	Drain connection - 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		1.5 kW (2 hp)	2.2 kW (3 hp)	3.7 kW (5 hp)
	Maximum usable motor output		1.7 kW (2.3 hp)	2.6 kW (3.45 hp)	4.3 kW (5.75 hp)
	Motor - Drive kit		1.5 kW kit #A - 446-604 rev/min	2.2 kW kit #2 - 571-721 rev/min	3.7 kW kit #2 - 571-721 rev/min kit #3 - 708-871 rev/min kit #4 - 788-988 rev/min
	Blower wheel nominal diameter x width - mm (in.)		(2) 381 x 381 (15 x 15)		
Filters	Type of filter		Disposable		
	No. and size - mm (in.)		(6) 610 x 610 x 51 (24 x 24 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 while operating at rated voltage and air volumes; 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.

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

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

SPECIFICATIONS

General Data		Nominal Size	53 kW		
		Model No.	LCC180S2B	LCC180H2B	LCC180H4B
		Efficiency Type	Standard	High	High
Cooling Performance		Gross Cooling Capacity - kW (Btuh)	49.7 (169 700)	49.8 (170 100)	49.7 (169 800)
		[1] Net Cooling Capacity - kW (Btuh)	47.9 (163 600)	48.0 (164 000)	47.9 (163 600)
		ARI Rated Air Flow - L/s (cfm)	2830 (6000)	2690 (5700)	2690 (5700)
		Total Unit Power (kW)	15.7	14.3	14.2
		[1] EER (Btuh/Watt)	10.4	11.5	11.5
		[2] Integrated Part Load Value (Btuh/Watt)	11.3	12.9	12.9
		Refrigerant Type	R-22	R-22	R-410A
		Refrigerant Charge Furnished Circuit 1	4.08 kg (9 lbs. 0 oz.)	5.22 kg (11 lbs. 8 oz.)	5.22 kg (11 lbs. 8 oz.)
		Circuit 2	4.08 kg (9 lbs. 0 oz.)	5.22 kg (11 lbs. 8 oz.)	5.22 kg (11 lbs. 8 oz.)
		Circuit 3	4.08 kg (9 lbs. 0 oz.)	5.22 kg (11 lbs. 8 oz.)	5.22 kg (11 lbs. 8 oz.)
Compressor Type (no.)			Scroll (3)	Scroll (3)	Scroll (3)
Outdoor Coils		Net face area - m^2 (sq. ft.) total	5.25 (56.5)	5.25 (56.5)	5.25 (56.5)
		Tube diameter - mm (in.) - No. of rows	9.5 (3/8) - 1	9.5 (3/8) - 2	9.5 (3/8) - 2
		Fins per meter (inch)	787 (20)	787 (20)	787 (20)
Outdoor Coil Fans		Motor Watts (horsepower)	(4) 249 (1/3)	(4) 249 (1/3)	(4) 249 (1/3)
		Motor rev/min	896	896	896
		Total Motor watts	1045	1065	1065
		Diameter - mm (in.) - No. of blades	(4) 610 (24) - 3	(4) 610 (24) - 3	(4) 610 (24) - 3
		Total Air volume - L/s (cfm)	6235 (13 200)	6075 (12 900)	6075 (12 900)
Indoor Coils		Net face area - m^2 (sq. ft.) total	2.07 (22.3)	2.07 (22.3)	2.07 (22.3)
		Tube diameter - mm (in.) - No. of rows	9.5 (3/8) - 3	9.5 (3/8) - 3	9.5 (3/8) - 3
		Fins per meter (inch)	551 (14)	551 (14)	551 (14)
		Drain connection - 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	2.2 kW (3 hp)	3.7 kW (5 hp)	5.6 kW (7.5 hp)
		Maximum usable motor output	2.6 kW (3.45 hp)	4.3 kW (5.75 hp)	6.4 kW (8.63 hp)
		Motor - Drive kit	2.2 kW kit #2 - 571 - 721 rev/min	3.7 kW kit #2 - 571 -721 rev/min kit #3 - 708 - 871 rev/min kit #4 - 788 - 988 rev/min	5.6 kW kit# 5 - 788 - 988 rev/min kit# 6 - 871 - 1071 rev/min kit# 7 - 708 - 871 rev/min
		Blower wheel nominal diameter x width - mm (in.)	(2) 381 x 381 (15 x 15 in.)		
Filters		Type of filter	Disposable		
		No. and size - mm (in.)	(6) 610 x 610 x51 (24 x 24 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 while operating at rated voltage and air volumes; 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.

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

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

SPECIFICATIONS

General Data	Nominal Size		**62 kW**		
	Model No.		**LCC210S2B**	**LCC210H2B**	**LCC210H4B**
	Efficiency Type		**Standard**	**High**	**High**
Cooling Performance	Gross Cooling Capacity - kW (Btuh)		56.4 (192 500)	56.0 (191 400)	56.5 (193 000)
	[1] Net Cooling Capacity - kW (Btuh)		54.0 (184 300)	53.6 (183 200)	54.1 (184 800)
	ARI Rated Air Flow - L/s (cfm)		3210 (6800)	3115 (6600)	3115 (6600)
	Total Unit Power (kW)		17.9	15.9	16.1
	[1] EER (Btuh/Watt)		10.3	11.5	11.5
	[2] Integrated Part Load Value (Btuh/Watt)		10.8	12.3	12.3
	Refrigerant Type		R-22	R-22	R-410A
	Refrigerant Charge Furnished	Circuit 1	3.18 kg (7 lbs. 0 oz.)	4.99 kg (11 lbs. 0 oz.)	5.67 kg (12 lbs. 8 oz.)
		Circuit 2	3.18 kg (7 lbs. 0 oz.)	4.99 kg (11 lbs. 0 oz.)	5.67 kg (12 lbs. 8 oz.)
		Circuit 3	3.18 kg (7 lbs. 0 oz.)	4.99 kg (11 lbs. 0 oz.)	5.44 kg (12 lbs. 0 oz.)
		Circuit 4	3.18 kg (7 lbs. 0 oz.)	4.99 kg (11 lbs. 0 oz.)	5.44 kg (12 lbs. 0 oz.)
Compressor Type (no.)			Scroll (4)	Scroll (4)	Scroll (4)
Outdoor Coils	Net face area - m^2 (sq. ft.) total		5.25 (56.5)	5.25 (56.5)	5.25 (56.5)
	Tube diameter - mm (in.)		9.5 (3/8)	9.5 (3/8)	9.5 (3/8)
	Number of rows		1	2	2
	Fins per meter (inch)		787 (20)	787 (20)	787 (20)
Outdoor Coil Fans	Motor Watts (horsepower)		(4) 249 (1/3)	(4) 249 (1/3)	(4) 249 (1/3)
	Motor rev/min		896	896	896
	Total Motor watts		1045	1065	1065
	Diameter - mm (in.)		(4) 610 (24)	(4) 610 (24)	(4) 610 (24)
	No. of blades		3	3	3
	Total Air volume - L/s (cfm)		6235 (13 200)	6075 (12 900)	6075 (12 900)
Indoor Coils	Net face area - m^2 (sq. ft.) total		2.07 (22.3)	2.07 (22.3)	2.07 (22.3)
	Tube diameter - mm (in.)		9.5 (3/8)	9.5 (3/8)	9.5 (3/8)
	No. of rows		3	4	4
	Fins per meter (inch)		551 (14)	551 (14)	551 (14)
	Drain connection - 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		2.2 kW (3 hp)	3.7 kW (5 hp)	5.6 kW (7.5 hp)
	Maximum usable motor output		2.6 kW (3.45 hp)	4.3 kW (5.75 hp)	6.4 kW (8.63 hp)
	Motor - Drive kit number		2.2 kW kit #2 - 571-721 rev/min	3.7 kW kit #2 - 571 -721 rev/min kit #3 - 708 - 871 rev/min kit #4 - 788 - 988 rev/min	5.6 kW kit# 5 - 788 - 988 rev/min kit# 6 - 871 -1071 rev/min kit# 7 - 708 - 871 rev/min
Blower wheel nominal diameter x width - mm (in.)			(2) 381 x 381 (15 x 15)		
Filters	Type of filter		Disposable		
	No. and size - mm (in.)		(6) 610 x 610 x 51 (24 x 24 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 while operating at rated voltage and air volumes; 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.

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

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

SPECIFICATIONS

General Data		Nominal size	70 kW		
		Model No.	**LCC240S2B**	**LCA240H2B**	**LCA240H4B**
		Efficiency Type	**Standard**	**High**	**High**
Cooling Performance		Gross Cooling Capacity - kW (Btuh)	64.8 (221 400)	66.4 (226 700)	63.7 (217 600)
		[1] Net Cooling Capacity - kW (Btuh)	61.7 (210 800)	63.5 (216 800)	60.8 (207 700)
		ARI Rated Air Flow - L/s (cfm)	3775 (8000)	3540 (7500)	3540 (7500)
		Total Unit Power (kW)	21.1	20.1	18.9
		[1] EER (Btuh/Watt)	10.0	10.8	11.0
		[2] Integrated Part Load Value (Btuh/Watt)	10.3	11.5	12.0
		Refrigerant Type	R-22	R-22	R-410A
	Refrigerant Charge Furnished	Circuit 1	4.99 kg (11 lbs. 0 oz.)	510 kg (11 lbs. 4 oz.)	4.76 kg (10 lbs. 8 oz.)
		Circuit 2	4.99 kg (11 lbs. 0 oz.)	510 kg (11 lbs. 4 oz.)	4.76 kg (10 lbs. 8 oz.)
		Circuit 3	4.99 kg (11 lbs. 0 oz.)	510 kg (11 lbs. 4 oz.)	4.76 kg (10 lbs. 8 oz.)
		Circuit 4	4.99 kg (11 lbs. 0 oz.)	510 kg (11 lbs. 4 oz.)	4.76 kg (10 lbs. 8 oz.)
Compressor Type (no.)			Scroll (4)	Scroll (4)	Scroll (4)
Outdoor Coils		Net face area - m^2 (sq. ft.) total	5.25 (56.5)	5.25 (56.5)	5.25 (56.5)
		Tube diameter - mm (in.)	9.5 (3/8)	9.5 (3/8)	9.5 (3/8)
		Number of rows	2	2	2
		Fins per meter (inch)	787 (20)	787 (20)	787 (20)
Outdoor Coil Fans		Motor Watts (horsepower)	(4) 249 (1/3)	(4) 249 (1/3)	(4) 249 (1/3)
		Motor rev/min	896	896	896
		Total Motor watts	1065	1065	1065
		Diameter - mm (in.)	(4) 610 (24)	(4) 610 (24)	(4) 610 (24)
		No. of blades	3	3	3
		Total Air volume - L/s (cfm)	6075 (12 900)	6075 (12 900)	6075 (12 900)
Indoor Coils		Net face area - m^2 (sq. ft.) total	2.07 (22.3)	2.07 (22.3)	2.07 (22.3)
		Tube diameter - mm (in.)	9.5 (3/8)	9.5 (3/8)	9.5 (3/8)
		No. of rows	3	4	4
		Fins per meter (inch)	551 (14)	551 (14)	551 (14)
		Drain connection - 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 number	3.7 kW kit #2 - 571 -721 rev/min kit #3 - 708 - 871 rev/min kit #4 - 788 - 988 rev/min	5.6 kW kit# 5 - 788 - 988 rev/min kit# 6 - 871- 1071 rev/min kit# 7 - 708 - 871 rev/min	7.5 kW kit #6 - 871-1071 rev/min kit #8 - 945- 1138 rev/min
Blower wheel nominal diameter x width - mm (in.)			(2) 381 x 381 (15 x 15)		
Filters		Type of filter	Disposable		
		No. and size - mm (in.)	(6) 610 x 610 x 51 (24 x 24 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 while operating at rated voltage and air volumes; 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.

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

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

SPECIFICATIONS

General Data	Nominal Size		**88 kW**		
	Model No.		**LCC300S2B**		**LCC300S4B**
	Efficiency Type		**Standard**		**Standard**
Cooling Performance	Gross Cooling Capacity - kW (Btuh)		80.5 (274 900)		77.0 (263 100)
	[1] Net Cooling Capacity - kW (Btuh)		76.2 (260 200)		72.7 (248 400)
	ARI Rated Air Flow - L/s (cfm)		4250 (9000)		4250 (9000)
	Total Unit Power (kW)		27.7		26.4
	[1] EER (Btuh/Watt)		9.4		9.4
	[2] Integrated Part Load Value (Btuh/Watt)		9.7		9.7
	Refrigerant Type		R-22		R-410A
	Refrigerant Charge Furnished	Circuit 1	5.10 kg (11 lbs. 4 oz.)		5.10 kg (11 lbs. 4 oz.)
		Circuit 2	5.10 kg (11 lbs. 4 oz.)		5.10 kg (11 lbs. 4 oz.)
		Circuit 3	5.10 kg (11 lbs. 4 oz.)		5.10 kg (11 lbs. 4 oz.)
		Circuit 4	5.10 kg (11 lbs. 4 oz.)		5.10 kg (11 lbs. 4 oz.)
Compressor Type (no.)			Scroll (4)		Scroll (4)
Outdoor Coils	Net face area - m^2 (sq. ft.) total		5.25 (56.5)		5.25 (56.5)
	Tube diameter - mm (in.) - No. of rows		9.5 (3/8) - 2		9.5 (3/8) - 2
	Fins per meter (inch)		787 (20)		787 (20)
Outdoor Coil Fans	Motor Watts (horsepower)		(4) 373 (1/2)		(4) 373 (1/2)
	Motor rev/min		896		896
	Total Motor watts		1375		1375
	Diameter - mm (in.) - No. of blades		(4) 610 (24) - 3		(4) 610 (24) - 3
	Total Air volume - L/s (cfm)		6290 (13 300)		6290 (13 300)
Outdoor Coil Fans	Motor Watts (horsepower)		(4) 373 (1/2)		(4) 373 (1/2)
	Motor rev/min		896		896
	Total Motor watts		1375		1375
	Diameter - mm (in.) - No. of blades		(4) 610 (24) - 3		(4) 610 (24) - 3
	Total Air volume - L/s (cfm)		6290 (13 300)		6290 (13 300)
Indoor Coils	Net face area - m^2 (sq. ft.) total		2.07 (22.3)		2.07 (22.3)
	Tube diameter - mm (in.) - No. of rows		9.5 (3/8) - 4		9.5 (3/8) - 4
	Fins per meter (inch)		551 (14)		551 (14)
	Drain connection - number and size		(1) 1 in. NPT coupling		(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 kit #2 - 571 -721 rev/min kit #3 - 708 - 871 rev/min kit #4 - 788 - 988 rev/min	5.6 kW kit# 5 - 788 - 988 rev/min kit# 6 - 871-1071 rev/min kit# 7 - 708 - 871 rev/min	7.5 kW kit #6 - 871-1071 rev/min kit #8 - 945-1138 rev/min
Blower wheel nominal diameter x width - mm (in.)			(2) 381 x 381 (15 x 15)		(2) 381 x 381 (15 x 15)
Filters	Type of filter		Disposable		
	Number and size - mm (in.)		(6) 610 x 610 x 51 (24 x 24 x 2)		(6) 610 x 610 x 51 (24 x 24 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 while operating at rated voltage and air volumes; 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.

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

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

COOLING RATINGS

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

46 kW HIGH EFFICIENCY COOLING CAPACITY - ONE COMPRESSOR OPERATING — LCC156H2

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		
	m^3/s	cfm	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)	1.96	4160	28.3	96.7	4.13	.66	.82	.98	27.5	94.0	4.66	.67	.84	.99	26.7	91.0	5.26	.68	.86	1.00	25.7	87.7	5.93	.69	.88	1.00
	2.45	5200	29.5	100.7	4.15	.71	.92	1.00	28.7	97.9	4.68	.73	.94	1.00	27.8	94.7	5.28	.74	.96	1.00	26.8	91.4	5.95	.76	.98	1.00
	2.94	6240	30.6	104.3	4.17	.78	.99	1.00	29.8	101.6	4.69	.80	1.00	1.00	28.9	98.5	5.29	.82	1.00	1.00	27.9	95.2	5.96	.84	1.00	1.00
19°C (67°F)	1.96	4160	30.3	103.4	4.17	.51	.64	.78	29.4	100.4	4.69	.52	.64	.79	28.4	97.0	5.28	.52	.65	.81	27.4	93.5	5.96	.53	.66	.83
	2.45	5200	31.4	107.0	4.19	.54	.69	.87	30.4	103.8	4.71	.55	.70	.89	29.4	100.2	5.30	.56	.71	.92	28.2	96.3	5.97	.57	.73	.94
	2.94	6240	32.1	109.6	4.20	.57	.75	.96	31.1	106.2	4.73	.58	.77	.98	30.0	102.4	5.32	.59	.79	.99	28.8	98.4	5.99	.60	.81	1.00
22°C (71°F)	1.96	4160	32.5	110.9	4.21	.38	.50	.61	31.6	107.7	4.73	.39	.50	.62	30.5	104.0	5.32	.39	.51	.63	29.3	100.0	5.99	.39	.52	.64
	2.45	5200	33.6	114.5	4.23	.39	.53	.66	32.5	110.9	4.75	.40	.54	.67	31.4	107.0	5.34	.40	.54	.69	30.1	102.8	6.01	.40	.55	.70
	2.94	6240	34.3	116.9	4.24	.41	.56	.72	33.2	113.2	4.76	.41	.57	.74	31.9	109.0	5.34	.41	.58	.76	30.7	104.7	6.01	.42	.59	.79

46 kW HIGH EFFICIENCY COOLING CAPACITY - ALL COMPRESSORS OPERATING — LCC156H2

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		
	m^3/s	cfm	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)	1.96	4160	41.0	139.8	7.52	.70	.87	1.00	38.8	132.4	9.00	.72	.90	1.00	36.3	124.0	10.79	.74	.94	1.00	33.7	115.0	12.95	.78	.98	1.00
	2.45	5200	42.6	145.4	7.55	.76	.96	1.00	40.4	138.0	9.04	.79	.99	1.00	38.1	129.9	10.81	.82	1.00	1.00	35.6	121.4	12.95	.87	1.00	1.00
	2.94	6240	44.3	151.2	7.57	.83	1.00	1.00	42.1	143.8	9.06	.86	1.00	1.00	39.8	135.7	10.84	.90	1.00	1.00	37.1	126.5	12.98	.95	1.00	1.00
19°C (67°F)	1.96	4160	43.7	149.1	7.56	.55	.68	.82	41.4	141.1	9.06	.56	.70	.85	38.6	131.7	10.84	.57	.72	.90	35.7	121.8	12.97	.59	.75	.94
	2.45	5200	45.1	153.9	7.59	.58	.74	.92	42.6	145.3	9.07	.59	.76	.95	39.7	135.6	10.85	.61	.80	.99	36.7	125.3	12.98	.63	.84	1.00
	2.94	6240	46.1	157.4	7.61	.61	.80	.99	43.5	148.5	9.09	.63	.84	1.00	40.6	138.7	10.87	.65	.88	1.00	37.5	128.0	13.01	.68	.93	1.00
22°C (71°F)	1.96	4160	46.8	159.8	7.62	.40	.53	.66	44.2	150.9	9.09	.41	.54	.67	41.4	141.1	10.87	.41	.55	.70	38.2	130.4	13.01	.42	.57	.73
	2.45	5200	48.2	164.5	7.64	.42	.57	.71	45.5	155.1	9.12	.42	.58	.74	42.4	144.7	10.90	.43	.60	.77	39.1	133.4	13.04	.44	.62	.81
	2.94	6240	49.1	167.7	7.67	.43	.60	.77	46.3	157.9	9.14	.44	.62	.81	43.1	147.1	10.91	.45	.64	.85	39.7	135.6	13.04	.46	.67	.90

46 kW HIGH EFFICIENCY (R-410A) COOLING CAPACITY - ONE COMPRESSOR OPERATING — LCC156H4

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		
	m^3/s	cfm	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)	1.96	4160	29.2	99.6	3.92	.68	.84	.98	28.3	96.4	4.45	.69	.85	.99	27.2	92.9	5.05	.70	.87	1.00	26.1	89.1	5.72	.71	.89	1.00
	2.45	5200	30.4	103.6	3.94	.73	.92	1.00	29.4	100.3	4.48	.75	.94	1.00	28.3	96.6	5.07	.77	.96	1.00	27.2	92.8	5.74	.79	.98	1.00
	2.94	6240	31.4	107.2	3.96	.80	.99	1.00	30.5	103.9	4.49	.82	1.00	1.00	29.5	100.6	5.08	.84	1.00	1.00	28.4	96.9	5.75	.86	1.00	1.00
19°C (67°F)	1.96	4160	31.2	106.3	3.96	.53	.66	.79	30.1	102.8	4.49	.54	.66	.81	29.0	99.0	5.08	.54	.68	.83	27.8	94.9	5.75	.55	.69	.85
	2.45	5200	32.2	109.9	3.98	.56	.71	.88	31.1	106.2	4.50	.57	.72	.90	30.0	102.2	5.10	.58	.74	.93	28.7	97.8	5.76	.59	.76	.95
	2.94	6240	33.0	112.5	3.98	.59	.77	.96	31.8	108.6	4.52	.60	.79	.98	30.6	104.4	5.10	.61	.81	.99	29.3	100.0	5.77	.62	.83	1.00
22°C (71°F)	1.96	4160	33.4	113.9	4.00	.40	.51	.63	32.3	110.1	4.52	.40	.52	.64	31.1	106.1	5.11	.40	.53	.65	29.8	101.6	5.78	.40	.53	.67
	2.45	5200	34.4	117.5	4.01	.41	.55	.69	33.2	113.4	4.54	.41	.56	.70	32.0	109.1	5.12	.41	.56	.71	30.6	104.4	5.79	.42	.57	.73
	2.94	6240	35.2	120.0	4.02	.42	.58	.74	33.9	115.6	4.55	.42	.59	.76	32.6	111.1	5.14	.43	.60	.78	31.2	106.3	5.80	.43	.62	.81

46 kW HIGH EFFICIENCY (R-410A) COOLING CAPACITY - ALL COMPRESSORS OPERATING — LCC156H4

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		
	m^3/s	cfm	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)	1.96	4160	41.1	140.1	7.21	.72	.87	1.00	38.7	132.0	8.67	.74	.91	1.00	36.1	123.1	10.43	.76	.94	1.00	33.3	113.5	12.58	.80	.99	1.00
	2.45	5200	42.7	145.7	7.24	.78	.96	1.00	40.3	137.6	8.70	.80	.99	1.00	37.8	129.1	10.45	.84	1.00	1.00	35.2	120.0	12.58	.89	1.00	1.00
	2.94	6240	44.4	151.4	7.24	.84	1.00	1.00	42.1	143.5	8.71	.87	1.00	1.00	39.5	134.7	10.47	.91	1.00	1.00	36.6	125.0	12.62	.96	1.00	1.00
19°C (67°F)	1.96	4160	43.8	149.3	7.24	.56	.69	.84	41.2	140.6	8.71	.57	.71	.87	38.3	130.7	10.47	.58	.74	.91	35.2	120.1	12.61	.60	.77	.95
	2.45	5200	45.2	154.1	7.27	.59	.75	.93	42.5	144.9	8.73	.61	.78	.96	39.4	134.5	10.49	.63	.82	.99	36.2	123.6	12.63	.65	.86	1.00
	2.94	6240	46.1	157.4	7.30	.63	.82	.99	43.4	148.0	8.74	.65	.85	1.00	40.4	137.7	10.49	.67	.89	1.00	37.0	126.4	12.65	.70	.94	1.00
22°C (71°F)	1.96	4160	46.9	159.9	7.30	.41	.54	.67	44.1	150.4	8.76	.42	.55	.69	41.1	140.1	10.52	.42	.57	.72	37.7	128.7	12.65	.43	.59	.75
	2.45	5200	48.2	164.5	7.33	.43	.58	.73	45.3	154.5	8.77	.43	.60	.75	42.1	143.7	10.52	.44	.61	.79	38.6	131.7	12.67	.45	.64	.83
	2.94	6240	49.1	167.6	7.33	.44	.62	.79	46.1	157.4	8.79	.45	.64	.82	42.8	146.1	10.55	.46	.66	.87	39.2	133.8	12.68	.47	.69	.92

COOLING RATINGS

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

53 kW STANDARD EFFICIENCY COOLING CAPACITY - ONE COMPRESSOR OPERATING — LCC180S2

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		
	m^3/s	cfm	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)	2.26	4800	33.1	112.9	6.04	.69	.84	.98	32.2	109.9	6.63	.69	.85	.99	31.2	106.3	7.30	.70	.87	1.00	30.0	102.5	8.09	.71	.89	1.00
	2.83	6000	34.3	117.0	6.12	.74	.92	1.00	33.4	113.9	6.71	.75	.94	1.00	32.3	110.3	7.40	.77	.95	1.00	31.2	106.5	8.18	.78	.97	1.00
	3.40	7200	35.3	120.6	6.19	.80	.99	1.00	34.5	117.6	6.78	.82	.99	1.00	33.5	114.2	7.48	.83	1.00	1.00	32.4	110.5	8.27	.85	1.00	1.00
19°C (67°F)	2.26	4800	35.1	119.7	6.17	.54	.66	.80	34.1	116.5	6.76	.54	.67	.81	33.1	112.8	7.45	.55	.68	.83	31.9	108.7	8.23	.55	.69	.85
	2.83	6000	36.1	123.2	6.25	.57	.72	.89	35.2	120.0	6.84	.57	.73	.90	34.0	116.0	7.52	.58	.74	.92	32.8	111.8	8.32	.59	.76	.94
	3.40	7200	36.8	125.7	6.31	.60	.78	.96	35.9	122.4	6.89	.61	.79	.97	34.7	118.4	7.58	.61	.81	.99	33.4	114.1	8.36	.63	.83	1.00
22°C (71°F)	2.26	4800	37.2	127.1	6.33	.40	.52	.64	36.3	123.9	6.92	.40	.53	.65	35.2	120.1	7.60	.40	.53	.66	33.9	115.8	8.40	.41	.54	.67
	2.83	6000	38.3	130.6	6.40	.41	.55	.70	37.3	127.2	6.98	.42	.56	.71	36.1	123.2	7.68	.42	.57	.72	34.8	118.8	8.47	.42	.58	.73
	3.40	7200	38.9	132.8	6.45	.43	.59	.76	38.0	129.5	7.04	.43	.60	.77	36.8	125.4	7.72	.43	.61	.79	35.4	120.7	8.52	.44	.62	.81

53 kW STANDARD EFFICIENCY COOLING CAPACITY - ALL COMPRESSORS OPERATING — LCC180S2

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		
	m^3/s	cfm	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)	2.26	4800	48.1	164.2	10.80	.71	.87	1.00	45.6	155.5	12.56	.73	.89	1.00	42.8	146.2	14.71	.75	.93	1.00	40.3	137.5	17.29	.77	.96	1.00
	2.83	6000	49.9	170.3	10.94	.77	.95	1.00	47.3	161.4	12.71	.79	.97	1.00	44.7	152.4	14.87	.82	1.00	1.00	42.2	144.0	17.50	.86	1.00	1.00
	3.40	7200	51.6	176.0	11.06	.83	1.00	1.00	49.1	167.6	12.85	.86	1.00	1.00	46.5	158.6	15.04	.89	1.00	1.00	43.9	149.8	17.69	.93	1.00	1.00
19°C (67°F)	2.26	4800	51.1	174.2	11.03	.55	.69	.83	48.3	164.9	12.78	.56	.71	.85	45.4	154.9	14.96	.58	.73	.89	42.6	145.2	17.56	.59	.75	.92
	2.83	6000	52.5	179.2	11.13	.59	.75	.92	49.7	169.7	12.91	.60	.77	.94	46.7	159.2	15.08	.62	.80	.98	43.7	149.0	17.70	.64	.83	1.00
	3.40	7200	53.6	182.9	11.21	.62	.81	.98	50.7	173.1	12.99	.64	.84	1.00	47.6	162.5	15.17	.66	.87	1.00	44.6	152.1	17.81	.68	.91	1.00
22°C (71°F)	2.26	4800	54.3	185.3	11.27	.41	.54	.67	51.5	175.8	13.04	.42	.55	.68	48.4	165.1	15.25	.42	.56	.70	45.3	154.7	17.89	.43	.58	.73
	2.83	6000	55.7	190.2	11.37	.43	.58	.73	52.8	180.2	13.16	.43	.59	.75	49.6	169.2	15.37	.44	.61	.77	46.4	158.2	18.03	.44	.63	.81
	3.40	7200	56.7	193.5	11.45	.44	.61	.79	53.7	183.2	13.25	.45	.63	.82	50.4	171.9	15.44	.45	.65	.85	47.0	160.5	18.12	.46	.67	.89

53 kW HIGH EFFICIENCY COOLING CAPACITY - ONE COMPRESSOR OPERATING — LCC180H2

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		
	m^3/s	cfm	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)	2.26	4800	34.3	117.2	5.18	.68	.83	.96	33.4	113.8	5.80	.69	.84	.98	32.4	110.4	6.52	.70	.85	.99	31.2	106.4	7.36	.71	.87	1.00
	2.83	6000	35.6	121.6	5.20	.73	.91	1.00	34.6	118.2	5.84	.74	.92	1.00	33.5	114.4	6.56	.76	.94	1.00	32.4	110.4	7.40	.77	.96	1.00
	3.40	7200	36.8	125.4	5.24	.79	.97	1.00	35.7	121.8	5.86	.80	.98	1.00	34.6	118.2	6.58	.82	1.00	1.00	33.5	114.4	7.42	.84	1.00	1.00
19°C (67°F)	2.26	4800	36.5	124.6	5.24	.53	.66	.79	35.5	121.0	5.86	.54	.66	.80	34.3	117.2	6.58	.54	.67	.82	33.1	113.0	7.42	.55	.68	.83
	2.83	6000	37.7	128.6	5.26	.56	.71	.87	36.6	124.8	5.88	.57	.72	.88	35.3	120.6	6.62	.58	.73	.90	34.1	116.2	7.46	.58	.75	.93
	3.40	7200	38.5	131.4	5.30	.59	.77	.94	37.3	127.4	5.92	.60	.78	.96	36.1	123.2	6.64	.61	.80	.97	34.8	118.6	7.48	.62	.82	.99
22°C (71°F)	2.26	4800	38.9	132.8	5.30	.40	.52	.63	37.8	129.0	5.94	.40	.52	.64	36.6	124.8	6.66	.40	.53	.65	35.3	120.4	7.48	.41	.53	.66
	2.83	6000	40.1	136.8	5.34	.41	.55	.69	38.9	132.6	5.96	.41	.56	.70	37.6	128.2	6.70	.42	.56	.71	36.2	123.6	7.54	.42	.57	.72
	3.40	7200	40.9	139.4	5.36	.42	.58	.74	39.6	135.2	6.00	.43	.59	.76	38.3	130.6	6.72	.43	.60	.77	36.9	125.8	7.56	.43	.61	.79

53 kW HIGH EFFICIENCY COOLING CAPACITY - ALL COMPRESSORS OPERATING — LCC180H2

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		
	m^3/s	cfm	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)	2.26	4800	48.5	165.4	9.37	.71	.86	1.00	46.0	156.9	11.22	.72	.89	1.00	43.2	147.5	13.53	.74	.92	1.00	40.4	137.8	16.31	.77	.96	1.00
	2.83	6000	50.3	171.6	9.43	.76	.95	1.00	47.8	163.0	11.31	.79	.97	1.00	45.0	153.7	13.58	.82	1.00	1.00	42.4	144.6	16.34	.85	1.00	1.00
	3.40	7200	52.1	177.7	9.48	.83	1.00	1.00	49.6	169.2	11.34	.85	1.00	1.00	46.9	160.1	13.65	.89	1.00	1.00	44.1	150.4	16.43	.93	1.00	1.00
19°C (67°F)	2.26	4800	51.5	175.7	9.46	.55	.68	.82	48.8	166.6	11.34	.56	.70	.85	45.8	156.4	13.64	.57	.72	.88	42.7	145.7	16.40	.59	.75	.92
	2.83	6000	53.0	181.0	9.52	.58	.74	.91	50.2	171.3	11.40	.60	.76	.94	47.1	160.7	13.67	.61	.79	.97	43.8	149.6	16.45	.63	.83	1.00
	3.40	7200	54.2	184.8	9.57	.62	.80	.98	51.2	174.8	11.43	.63	.83	1.00	48.1	164.2	13.71	.65	.87	1.00	44.8	152.8	16.49	.68	.91	1.00
22°C (71°F)	2.26	4800	54.9	187.4	9.58	.41	.54	.66	52.1	177.7	11.45	.41	.54	.68	48.9	166.9	13.76	.42	.56	.70	45.5	155.4	16.52	.42	.57	.72
	2.83	6000	56.5	192.7	9.64	.42	.57	.72	53.5	182.4	11.49	.43	.58	.74	50.1	171.0	13.79	.43	.60	.77	46.6	159.0	16.57	.44	.62	.80
	3.40	7200	57.5	196.2	9.67	.43	.61	.78	54.3	185.4	11.55	.44	.62	.81	50.9	173.7	13.83	.45	.64	.84	47.4	161.6	16.61	.46	.67	.89

COOLING RATINGS

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

53 kW HIGH EFFICIENCY (R-410A) COOLING CAPACITY - ONE COMPRESSOR OPERATING — LCC180H4

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		
	m^3/s	cfm	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)	2.26	4800	34.8	118.8	4.89	.68	.83	.96	33.5	114.3	5.57	.69	.84	.98	32.1	109.6	6.34	.70	.86	.99	30.6	104.4	7.21	.72	.89	1.00
	2.83	6000	36.2	123.5	4.92	.73	.91	1.00	34.8	118.8	5.61	.74	.93	1.00	33.4	113.8	6.38	.76	.95	1.00	31.9	108.7	7.25	.79	.97	1.00
	3.40	7200	37.4	127.5	4.95	.79	.97	1.00	36.0	122.8	5.64	.81	.98	1.00	34.5	117.8	6.41	.83	.99	1.00	33.0	112.7	7.28	.86	1.00	1.00
19°C (67°F)	2.26	4800	37.1	126.5	4.94	.53	.65	.79	35.6	121.6	5.64	.54	.67	.80	34.1	116.5	6.40	.55	.68	.83	32.5	110.8	7.28	.55	.69	.85
	2.83	6000	38.3	130.7	4.98	.56	.70	.87	36.8	125.5	5.66	.57	.72	.89	35.2	120.0	6.43	.58	.74	.91	33.4	114.1	7.31	.59	.76	.94
	3.40	7200	39.2	133.7	5.00	.59	.76	.94	37.6	128.2	5.69	.60	.78	.96	35.9	122.5	6.46	.61	.81	.98	34.1	116.5	7.33	.63	.83	.99
22°C (71°F)	2.26	4800	39.6	135.1	5.00	.40	.52	.63	38.0	129.8	5.70	.40	.52	.64	36.4	124.2	6.47	.40	.53	.65	34.6	118.2	7.35	.41	.54	.67
	2.83	6000	40.8	139.2	5.04	.41	.55	.68	39.2	133.6	5.74	.41	.56	.70	37.4	127.7	6.51	.42	.57	.71	35.6	121.4	7.38	.42	.58	.74
	3.40	7200	41.6	142.0	5.06	.42	.58	.74	39.9	136.2	5.76	.43	.59	.76	38.1	129.9	6.53	.43	.60	.78	36.2	123.4	7.40	.44	.62	.81

53 kW HIGH EFFICIENCY (R-410A) COOLING CAPACITY - ALL COMPRESSORS OPERATING — LCC180H4

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		
	m^3/s	cfm	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)	2.26	4800	49.3	168.1	8.93	.70	.86	.99	45.9	156.6	10.82	.73	.89	1.00	42.2	143.9	13.17	.76	.94	1.00	38.0	129.8	16.13	.81	.99	1.00
	2.83	6000	51.2	174.6	8.99	.76	.94	1.00	47.8	163.0	10.88	.79	.97	1.00	44.1	150.5	13.23	.84	.99	1.00	40.0	136.6	16.18	.90	1.00	1.00
	3.40	7200	52.9	180.6	9.04	.82	.99	1.00	49.6	169.1	10.93	.86	1.00	1.00	45.9	156.5	13.28	.91	1.00	1.00	41.6	142.0	16.22	.96	1.00	1.00
19°C (67°F)	2.26	4800	52.3	178.5	9.02	.55	.68	.82	48.7	166.1	10.92	.56	.70	.86	44.6	152.2	13.26	.58	.73	.90	39.9	136.2	16.19	.60	.78	.96
	2.83	6000	53.9	184.0	9.07	.58	.74	.91	50.1	171.0	10.97	.60	.77	.95	45.9	156.5	13.32	.62	.81	.98	41.0	140.0	16.24	.65	.87	1.00
	3.40	7200	55.1	188.0	9.11	.61	.80	.97	51.1	174.5	11.00	.64	.84	.99	46.8	159.8	13.35	.66	.89	1.00	42.0	143.2	16.27	.70	.95	1.00
22°C (71°F)	2.26	4800	55.9	190.6	9.13	.41	.53	.66	51.9	177.2	11.03	.41	.55	.68	47.6	162.4	13.37	.42	.57	.71	42.6	145.3	16.28	.43	.59	.75
	2.83	6000	57.4	195.9	9.19	.42	.57	.72	53.3	181.8	11.08	.43	.59	.74	48.7	166.1	13.41	.44	.61	.78	43.5	148.4	16.33	.45	.65	.85
	3.40	7200	58.5	199.6	9.22	.43	.60	.77	54.2	184.8	11.11	.44	.63	.81	49.5	168.8	13.45	.45	.66	.87	44.1	150.6	16.35	.47	.70	.93

62 kW STANDARD EFFICIENCY COOLING CAPACITY - ONE COMPRESSOR OPERATING — LCC210S2

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		
	m^3/s	cfm	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)	2.64	5600	28.0	95.4	5.08	.66	.83	.98	27.1	92.4	5.62	.67	.84	1.00	26.1	89.2	6.24	.68	.87	1.00	25.1	85.6	6.96	.69	.89	1.00
	3.30	7000	29.0	98.8	5.14	.72	.92	1.00	28.1	95.8	5.70	.73	.94	1.00	27.1	92.4	6.32	.75	.96	1.00	26.1	89.0	7.06	.77	.98	1.00
	3.96	8400	29.9	102.0	5.22	.79	.99	1.00	29.0	98.8	5.78	.80	1.00	1.00	28.0	95.6	6.42	.83	1.00	1.00	27.1	92.4	7.14	.85	1.00	1.00
19°C (67°F)	2.64	5600	29.7	101.2	5.20	.52	.64	.78	28.7	97.8	5.76	.52	.65	.80	27.7	94.4	6.38	.53	.66	.83	26.6	90.6	7.10	.54	.67	.85
	3.30	7000	30.5	104.0	5.26	.55	.69	.88	29.5	100.6	5.82	.55	.70	.90	28.4	96.8	6.46	.56	.73	.93	27.3	93.0	7.18	.57	.75	.95
	3.96	8400	31.1	106.2	5.32	.58	.76	.97	30.1	102.6	5.88	.59	.78	.98	29.0	98.8	6.50	.60	.80	.99	27.8	94.8	7.22	.61	.83	1.00
22°C (71°F)	2.64	5600	31.5	107.4	5.34	.39	.50	.62	30.5	104.0	5.90	.39	.51	.63	29.4	100.2	6.54	.39	.52	.64	28.3	96.4	7.26	.39	.52	.65
	3.30	7000	32.3	110.2	5.40	.40	.54	.67	31.2	106.6	5.96	.40	.54	.69	30.1	102.8	6.62	.40	.55	.70	28.9	98.6	7.34	.41	.56	.72
	3.96	8400	32.9	112.2	5.46	.41	.57	.74	31.8	108.4	6.02	.41	.58	.75	30.6	104.4	6.66	.42	.59	.78	29.3	100.0	7.38	.42	.60	.80

62 kW STANDARD EFFICIENCY COOLING CAPACITY - ALL COMPRESSORS OPERATING — LCC210S2

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		
	m^3/s	cfm	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)	2.64	5600	55.3	188.6	11.94	.71	.87	1.00	52.2	178.0	14.04	.73	.90	1.00	48.8	166.6	16.62	.75	.94	1.00	45.1	153.8	19.74	.79	.98	1.00
	3.30	7000	57.2	195.2	12.10	.77	.96	1.00	54.2	184.8	14.24	.80	.98	1.00	50.9	173.6	16.82	.83	1.00	1.00	47.3	161.4	19.98	.88	1.00	1.00
	3.96	8400	59.1	201.8	12.26	.83	1.00	1.00	56.2	191.8	14.40	.87	1.00	1.00	52.9	180.4	17.02	.91	1.00	1.00	49.1	167.4	20.16	.95	1.00	1.00
19°C (67°F)	2.64	5600	58.4	199.4	12.22	.55	.69	.83	55.2	188.2	14.32	.56	.71	.86	51.4	175.4	16.92	.58	.73	.90	47.3	161.4	20.02	.60	.76	.95
	3.30	7000	60.1	205.2	12.36	.59	.75	.92	56.6	193.2	14.48	.60	.77	.96	52.8	180.2	17.04	.62	.81	.99	48.5	165.6	20.14	.64	.85	1.00
	3.96	8400	61.4	209.4	12.46	.62	.81	.99	57.7	197.0	14.58	.64	.85	1.00	53.9	183.8	17.16	.66	.88	1.00	49.5	169.0	20.26	.69	.93	1.00
22°C (71°F)	2.64	5600	62.2	212.2	12.54	.41	.54	.67	58.7	200.2	14.66	.41	.55	.69	54.7	186.6	17.26	.42	.57	.71	50.3	171.8	20.38	.43	.59	.74
	3.30	7000	63.8	217.6	12.66	.42	.58	.73	60.0	204.8	14.80	.43	.59	.75	55.9	190.8	17.38	.43	.61	.78	51.3	175.2	20.50	.45	.64	.83
	3.96	8400	64.8	221.0	12.76	.44	.61	.79	61.0	208.0	14.90	.44	.63	.82	56.8	193.8	17.48	.45	.65	.86	52.0	177.6	20.58	.46	.69	.91

COOLING RATINGS

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

62 kW HIGH EFFICIENCY COOLING CAPACITY - ONE COMPRESSOR OPERATING — LCC210H2

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		
	m^3/s	cfm	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)	2.64	5600	29.2	99.8	4.37	.67	.84	1.00	28.4	96.9	4.93	.68	.86	1.00	27.4	93.6	5.57	.69	.88	1.00	26.4	90.0	6.27	.71	.90	1.00
	3.30	7000	30.5	103.9	4.41	.73	.94	1.00	29.5	100.8	4.97	.75	.96	1.00	28.6	97.5	5.59	.77	.98	1.00	27.5	93.9	6.30	.79	1.00	1.00
	3.96	8400	31.6	107.8	4.45	.81	1.00	1.00	30.7	104.9	4.99	.82	1.00	1.00	29.8	101.6	5.63	.85	1.00	1.00	28.8	98.1	6.33	.87	1.00	1.00
19°C (67°F)	2.64	5600	31.2	106.3	4.43	.52	.65	.79	30.2	103.0	4.99	.53	.66	.81	29.1	99.4	5.61	.54	.67	.83	28.0	95.6	6.32	.54	.68	.86
	3.30	7000	32.2	109.8	4.46	.56	.71	.90	31.2	106.3	5.01	.56	.72	.92	30.0	102.5	5.65	.57	.74	.94	28.8	98.4	6.35	.58	.76	.97
	3.96	8400	32.9	112.4	4.49	.59	.78	.98	31.8	108.6	5.03	.60	.80	.99	30.7	104.7	5.67	.61	.82	1.00	29.5	100.5	6.37	.62	.84	1.00
22°C (71°F)	2.64	5600	33.3	113.7	4.49	.39	.51	.63	32.3	110.1	5.05	.39	.51	.64	31.1	106.2	5.68	.39	.52	.65	29.9	102.0	6.38	.40	.53	.66
	3.30	7000	34.3	117.1	4.53	.40	.54	.68	33.2	113.3	5.07	.40	.55	.70	31.9	109.0	5.71	.41	.56	.71	30.7	104.6	6.41	.41	.57	.73
	3.96	8400	35.0	119.4	4.55	.42	.58	.75	33.8	115.4	5.09	.42	.59	.77	32.5	111.0	5.72	.42	.60	.79	31.2	106.4	6.43	.43	.61	.82

62 kW HIGH EFFICIENCY COOLING CAPACITY - ALL COMPRESSORS OPERATING — LCC210H2

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		
	m^3/s	cfm	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)	2.64	5600	54.8	187.1	10.22	.71	.88	1.00	51.8	176.8	12.32	.73	.92	1.00	48.8	166.5	14.88	.75	.95	1.00	45.8	156.3	17.96	.78	.99	1.00
	3.30	7000	57.1	194.8	10.26	.77	.98	1.00	54.2	185.1	12.36	.80	1.00	1.00	51.3	175.1	14.96	.84	1.00	1.00	48.4	165.3	18.08	.88	1.00	1.00
	3.96	8400	59.5	203.1	10.28	.85	1.00	1.00	56.6	193.1	12.40	.89	1.00	1.00	53.5	182.7	15.00	.93	1.00	1.00	50.5	172.2	18.16	.97	1.00	1.00
19°C (67°F)	2.64	5600	58.2	198.7	10.30	.55	.69	.84	55.0	187.6	12.38	.56	.71	.87	51.7	176.3	15.00	.57	.73	.91	48.3	164.7	18.08	.59	.75	.96
	3.30	7000	59.9	204.5	10.30	.58	.75	.95	56.5	192.9	12.42	.60	.77	.98	53.1	181.1	15.04	.62	.81	1.00	49.6	169.4	18.16	.64	.85	1.00
	3.96	8400	61.2	208.9	10.32	.62	.82	1.00	57.8	197.2	12.44	.64	.86	1.00	54.3	185.2	15.08	.66	.90	1.00	50.8	173.5	18.24	.69	.94	1.00
22°C (71°F)	2.64	5600	62.1	212.0	10.34	.40	.53	.66	58.6	200.0	12.46	.41	.55	.68	55.1	187.9	15.12	.41	.56	.70	51.6	175.9	18.28	.42	.57	.73
	3.30	7000	63.7	217.4	10.34	.42	.57	.73	60.1	204.9	12.50	.42	.59	.75	56.4	192.4	15.16	.43	.61	.78	52.7	179.9	18.36	.44	.63	.82
	3.96	8400	64.8	221.2	10.34	.43	.62	.80	61.1	208.5	12.52	.44	.63	.83	57.3	195.6	15.20	.45	.66	.88	53.5	182.7	18.40	.46	.68	.92

62 kW HIGH EFFICIENCY (R-410A) COOLING CAPACITY - ONE COMPRESSOR OPERATING — LCC210H4

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		
	m^3/s	cfm	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)	2.64	5600	29.5	100.6	4.26	.68	.84	1.00	28.4	96.9	4.86	.69	.86	1.00	27.3	93.0	5.51	.70	.89	1.00	26.0	88.8	6.26	.72	.92	1.00
	3.30	7000	30.7	104.6	4.29	.74	.94	1.00	29.5	100.8	4.88	.76	.97	1.00	28.4	96.9	5.54	.78	.99	1.00	27.3	93.0	6.29	.81	1.00	1.00
	3.96	8400	31.8	108.5	4.32	.81	1.00	1.00	30.8	105.0	4.91	.84	1.00	1.00	29.7	101.2	5.57	.86	1.00	1.00	28.5	97.1	6.32	.89	1.00	1.00
19°C (67°F)	2.64	5600	31.3	106.8	4.31	.53	.66	.80	30.1	102.8	4.90	.54	.67	.82	28.9	98.7	5.56	.54	.68	.85	27.6	94.2	6.30	.55	.70	.87
	3.30	7000	32.3	110.2	4.34	.56	.72	.91	31.1	106.0	4.93	.57	.73	.93	29.8	101.6	5.58	.58	.75	.95	28.4	97.0	6.33	.60	.78	.98
	3.96	8400	33.0	112.7	4.36	.60	.79	.99	31.8	108.4	4.95	.61	.81	1.00	30.5	103.9	5.61	.62	.83	1.00	29.1	99.2	6.36	.64	.87	1.00
22°C (71°F)	2.64	5600	33.4	114.0	4.37	.39	.52	.64	32.1	109.7	4.96	.40	.52	.65	30.9	105.3	5.62	.40	.53	.66	29.5	100.5	6.37	.40	.54	.67
	3.30	7000	34.3	117.2	4.40	.41	.55	.70	33.0	112.7	4.99	.41	.56	.71	31.7	108.0	5.65	.41	.57	.73	30.2	103.1	6.39	.42	.58	.75
	3.96	8400	35.0	119.4	4.42	.42	.59	.76	33.6	114.8	5.01	.43	.60	.78	32.2	109.9	5.67	.43	.62	.81	30.7	104.9	6.42	.44	.63	.84

62 kW HIGH EFFICIENCY (R-410A) COOLING CAPACITY - ALL COMPRESSORS OPERATING — LCC210H4

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		
	m^3/s	cfm	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)	2.64	5600	55.9	190.7	10.19	.76	.91	1.00	52.2	178.2	12.32	.79	.94	1.00	48.4	165.1	14.99	.82	.98	1.00	44.4	151.6	18.34	.86	1.00	1.00
	3.30	7000	58.2	198.6	10.24	.83	.98	1.00	54.7	186.6	12.37	.86	1.00	1.00	51.1	174.2	15.03	.89	1.00	1.00	47.1	160.8	18.41	.94	1.00	1.00
	3.96	8400	60.7	207.0	10.30	.89	1.00	1.00	57.1	195.0	12.44	.92	1.00	1.00	53.3	181.8	15.11	.96	1.00	1.00	49.1	167.6	18.46	.99	1.00	1.00
19°C (67°F)	2.64	5600	59.3	202.3	10.28	.59	.74	.88	55.4	189.0	12.40	.60	.76	.91	51.2	174.6	15.07	.62	.79	.95	46.6	159.1	18.42	.64	.83	.99
	3.30	7000	61.1	208.6	10.32	.63	.80	.96	57.0	194.6	12.46	.65	.83	.99	52.7	179.8	15.11	.67	.87	1.00	48.0	163.9	18.49	.70	.92	1.00
	3.96	8400	62.4	213.0	10.36	.67	.87	1.00	58.3	198.9	12.51	.69	.90	1.00	53.9	183.9	15.16	.72	.94	1.00	49.4	168.5	18.52	.76	.98	1.00
22°C (71°F)	2.64	5600	63.3	216.0	10.39	.43	.57	.71	59.1	201.7	12.52	.44	.59	.74	54.7	186.5	15.19	.45	.61	.77	49.9	170.2	18.56	.45	.63	.80
	3.30	7000	65.0	221.7	10.44	.45	.62	.78	60.6	206.9	12.58	.46	.64	.81	56.0	191.1	15.24	.47	.66	.85	51.1	174.2	18.60	.48	.69	.89
	3.96	8400	66.1	225.7	10.48	.47	.66	.85	61.7	210.5	12.63	.48	.69	.88	56.9	194.3	15.28	.49	.71	.92	51.9	177.1	18.65	.50	.75	.96

COOLING RATINGS

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

70 kW STANDARD EFFICIENCY COOLING CAPACITY - ONE COMPRESSOR OPERATING — LCC240S2

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		
	m^3/s	cfm	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)	3.02	6400	31.9	108.8	6.00	.62	.80	.97	31.1	106.0	6.60	.63	.81	.98	30.1	102.6	7.28	.64	.83	1.00	29.0	99.0	8.04	.65	.86	1.00
	3.77	8000	33.0	112.6	6.08	.68	.90	1.00	32.2	109.8	6.66	.69	.92	1.00	31.2	106.4	7.34	.71	.94	1.00	30.1	102.6	8.12	.73	.96	1.00
	4.53	9600	33.9	115.8	6.14	.75	.98	1.00	33.2	113.2	6.72	.76	.99	1.00	32.2	109.8	7.42	.79	1.00	1.00	31.1	106.2	8.20	.81	1.00	1.00
19°C (67°F)	3.02	6400	33.8	115.2	6.14	.49	.60	.75	32.9	112.2	6.72	.49	.61	.77	31.8	108.6	7.40	.50	.62	.79	30.7	104.6	8.18	.50	.63	.81
	3.77	8000	34.6	118.2	6.20	.51	.65	.86	33.8	115.2	6.78	.52	.66	.87	32.7	111.6	7.46	.53	.68	.90	31.5	107.6	8.24	.53	.70	.92
	4.53	9600	35.3	120.6	6.24	.54	.72	.95	34.5	117.6	6.82	.55	.74	.96	33.4	113.8	7.50	.56	.76	.98	32.1	109.6	8.30	.57	.78	1.00
22°C (71°F)	3.02	6400	35.8	122.2	6.28	.36	.47	.58	34.9	119.2	6.86	.37	.48	.59	33.8	115.4	7.54	.37	.48	.60	32.6	111.4	8.34	.37	.49	.61
	3.77	8000	36.7	125.2	6.34	.37	.50	.63	35.8	122.0	6.92	.38	.51	.64	34.6	118.2	7.60	.38	.52	.65	33.4	114.0	8.38	.38	.52	.67
	4.53	9600	37.3	127.2	6.38	.39	.54	.69	36.4	124.2	6.96	.39	.54	.71	35.2	120.2	7.64	.39	.55	.73	33.9	115.8	8.44	.39	.56	.76

70 kW STANDARD EFFICIENCY COOLING CAPACITY - ALL COMPRESSORS OPERATING — LCC240S2

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		
	m^3/s	cfm	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)	3.02	6400	63.0	214.8	14.16	.71	.88	1.00	59.7	203.8	16.48	.73	.91	1.00	56.2	191.8	19.28	.75	.94	1.00	52.9	180.4	22.68	.78	.98	1.00
	3.77	8000	65.2	222.6	14.32	.77	.97	1.00	61.9	211.2	16.64	.79	1.00	1.00	58.4	199.4	19.48	.83	1.00	1.00	55.2	188.2	22.92	.86	1.00	1.00
	4.53	9600	67.3	229.6	14.46	.84	1.00	1.00	64.1	218.6	16.80	.87	1.00	1.00	60.7	207.2	19.68	.90	1.00	1.00	57.3	195.4	23.14	.94	1.00	1.00
19°C (67°F)	3.02	6400	66.6	227.4	14.42	.55	.69	.84	63.1	215.4	16.74	.56	.71	.87	59.4	202.6	19.56	.58	.73	.90	55.7	190.0	23.00	.59	.75	.94
	3.77	8000	68.5	233.6	14.54	.59	.75	.93	64.9	221.4	16.86	.60	.77	.96	61.0	208.0	19.74	.61	.80	1.00	57.0	194.6	23.18	.63	.84	1.00
	4.53	9600	69.9	238.4	14.64	.62	.81	1.00	66.2	225.8	16.98	.63	.84	1.00	62.1	212.0	19.86	.65	.88	1.00	58.1	198.4	23.30	.68	.92	1.00
22°C (71°F)	3.02	6400	70.8	241.6	14.70	.41	.54	.67	67.2	229.2	17.06	.41	.55	.68	63.2	215.8	19.90	.42	.56	.70	59.2	202.0	23.38	.42	.58	.73
	3.77	8000	72.6	247.6	14.84	.42	.57	.73	68.8	234.8	17.16	.43	.59	.75	64.7	220.8	20.06	.43	.60	.77	60.4	206.2	23.56	.44	.63	.81
	4.53	9600	73.7	251.6	14.90	.44	.61	.79	69.9	238.6	17.26	.44	.63	.82	65.6	223.8	20.14	.45	.65	.85	61.4	209.4	23.62	.46	.67	.90

70 kW HIGH EFFICIENCY COOLING CAPACITY - ONE COMPRESSOR OPERATING — LCA240H2

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		
	m^3/s	cfm	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)	3.02	6400	33.9	115.8	5.58	.65	.82	.98	32.9	112.4	6.26	.66	.84	1.00	31.8	108.6	7.06	.67	.86	1.00	30.7	104.6	7.98	.68	.88	1.00
	3.77	8000	35.3	120.4	5.62	.71	.92	1.00	34.2	116.8	6.32	.72	.94	1.00	33.1	112.8	7.12	.74	.96	1.00	31.9	108.8	8.04	.76	.98	1.00
	4.53	9600	36.5	124.4	5.66	.78	.99	1.00	35.4	120.8	6.36	.80	1.00	1.00	34.3	117.2	7.16	.82	1.00	1.00	33.2	113.2	8.10	.85	1.00	1.00
19°C (67°F)	3.02	6400	36.0	122.8	5.66	.51	.63	.77	34.9	119.2	6.34	.52	.64	.79	33.7	115.0	7.14	.52	.65	.81	32.5	110.8	8.06	.53	.66	.83
	3.77	8000	37.2	126.8	5.70	.54	.69	.88	36.0	122.8	6.40	.55	.70	.90	34.8	118.6	7.20	.56	.71	.92	33.4	114.0	8.12	.56	.74	.95
	4.53	9600	38.0	129.6	5.72	.57	.76	.97	36.8	125.4	6.42	.58	.78	.98	35.5	121.0	7.22	.59	.80	1.00	34.1	116.4	8.14	.60	.82	1.00
22°C (71°F)	3.02	6400	38.4	131.0	5.74	.38	.50	.61	37.2	127.0	6.44	.38	.50	.62	35.9	122.6	7.24	.38	.51	.63	34.6	118.0	8.16	.39	.51	.64
	3.77	8000	39.5	134.8	5.78	.39	.53	.66	38.2	130.4	6.48	.39	.54	.68	36.9	125.8	7.28	.40	.54	.69	35.5	121.0	8.22	.40	.55	.71
	4.53	9600	40.2	137.2	5.82	.40	.56	.73	38.9	132.8	6.52	.41	.57	.75	37.5	128.0	7.32	.41	.58	.77	36.0	123.0	8.24	.42	.59	.79

70 kW HIGH EFFICIENCY COOLING CAPACITY - ALL COMPRESSORS OPERATING — LCA240H2

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		
	m^3/s	cfm	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)	3.02	6400	64.9	221.6	13.16	.72	.88	1.00	61.5	209.8	15.80	.73	.91	1.00	57.7	197.0	19.02	.76	.94	1.00	53.9	183.8	22.91	.79	.98	1.00
	3.77	8000	67.5	230.2	13.27	.78	.97	1.00	63.9	218.2	15.92	.80	1.00	1.00	60.4	206.2	19.13	.84	1.00	1.00	56.7	193.4	23.06	.88	1.00	1.00
	4.53	9600	70.0	238.8	13.36	.85	1.00	1.00	66.6	227.2	16.04	.88	1.00	1.00	62.9	214.6	19.26	.92	1.00	1.00	59.0	201.4	23.18	.96	1.00	1.00
19°C (67°F)	3.02	6400	68.9	235.0	13.32	.56	.69	.84	65.1	222.2	15.97	.57	.71	.87	61.0	208.2	19.22	.58	.73	.90	56.8	193.8	23.09	.60	.76	.95
	3.77	8000	70.9	242.0	13.42	.59	.76	.93	67.0	228.7	16.08	.61	.78	.97	62.8	214.2	19.30	.62	.81	1.00	58.3	199.0	23.20	.64	.85	1.00
	4.53	9600	72.4	247.2	13.48	.63	.82	1.00	68.4	233.4	16.12	.65	.86	1.00	64.1	218.7	19.38	.67	.89	1.00	59.6	203.4	23.28	.69	.94	1.00
22°C (71°F)	3.02	6400	73.4	250.4	13.52	.41	.54	.67	69.4	236.8	16.16	.42	.55	.69	65.0	221.9	19.44	.42	.57	.71	60.5	206.3	23.33	.43	.58	.74
	3.77	8000	75.3	257.1	13.62	.43	.58	.73	71.2	242.8	16.28	.43	.60	.76	66.6	227.2	19.52	.44	.61	.79	61.9	211.1	23.42	.45	.64	.83
	4.53	9600	76.7	261.6	13.66	.44	.62	.80	72.3	246.8	16.32	.45	.64	.83	67.7	230.9	19.58	.46	.66	.87	62.8	214.3	23.50	.47	.69	.92

COOLING RATINGS

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

70 kW HIGH EFFICIENCY (R-410A) COOLING CAPACITY - ONE COMPRESSOR OPERATING — LCA240H4

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		
	m^3/s	cfm	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)	3.02	6400	33.4	114.0	4.90	.64	.81	.97	32.2	109.9	5.58	.66	.83	.99	30.9	105.4	6.34	.67	.86	1.00	29.5	100.6	7.22	.68	.89	1.00
	3.77	8000	34.8	118.6	4.95	.70	.92	1.00	33.5	114.2	5.63	.72	.94	1.00	32.1	109.7	6.40	.74	.96	1.00	30.7	104.9	7.28	.77	.98	1.00
	4.53	9600	35.9	122.6	4.99	.78	.98	1.00	34.6	118.2	5.68	.80	.99	1.00	33.4	113.8	6.46	.83	1.00	1.00	32.0	109.1	7.34	.86	1.00	1.00
19°C (67°F)	3.02	6400	35.4	120.9	4.97	.50	.62	.76	34.1	116.3	5.66	.51	.63	.79	32.7	111.5	6.43	.52	.65	.81	31.2	106.4	7.31	.53	.66	.84
	3.77	8000	36.5	124.6	5.02	.53	.68	.87	35.1	119.8	5.71	.54	.69	.90	33.6	114.7	6.48	.55	.71	.93	32.1	109.4	7.35	.56	.74	.96
	4.53	9600	37.3	127.4	5.05	.57	.75	.96	35.8	122.3	5.75	.58	.77	.98	34.3	117.1	6.51	.59	.80	.99	32.7	111.6	7.39	.60	.83	1.00
22°C (71°F)	3.02	6400	37.7	128.6	5.07	.38	.49	.60	36.3	123.7	5.77	.38	.50	.61	34.7	118.4	6.54	.38	.50	.62	33.1	112.9	7.42	.39	.51	.64
	3.77	8000	38.7	132.2	5.11	.39	.52	.66	37.2	126.9	5.81	.39	.53	.67	35.6	121.5	6.59	.39	.54	.69	33.9	115.7	7.46	.40	.55	.71
	4.53	9600	39.4	134.6	5.15	.40	.56	.72	37.9	129.2	5.85	.41	.57	.75	36.2	123.5	6.62	.41	.58	.77	34.4	117.5	7.50	.42	.60	.81

70 kW HIGH EFFICIENCY (R-410A) COOLING CAPACITY - ALL COMPRESSORS OPERATING — LCA240H4

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		
	m^3/s	cfm	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)	3.02	6400	63.5	216.6	11.89	.74	.90	1.00	59.3	202.4	14.42	.76	.93	1.00	54.8	187.0	17.57	.79	.97	1.00	50.0	170.6	21.50	.84	.99	1.00
	3.77	8000	66.0	225.3	11.99	.80	.98	1.00	61.9	211.3	14.54	.83	.99	1.00	57.5	196.1	17.70	.88	1.00	1.00	52.5	179.2	21.65	.93	1.00	1.00
	4.53	9600	68.5	233.8	12.13	.87	1.00	1.00	64.4	219.7	14.69	.91	1.00	1.00	59.8	203.9	17.84	.95	1.00	1.00	54.5	185.8	21.78	.99	1.00	1.00
19°C (67°F)	3.02	6400	67.1	228.9	12.07	.57	.72	.86	62.6	213.6	14.59	.59	.74	.90	57.6	196.6	17.74	.60	.77	.94	51.9	177.2	21.65	.63	.81	.99
	3.77	8000	69.0	235.4	12.16	.61	.78	.95	64.3	219.4	14.70	.63	.81	.98	59.1	201.5	17.82	.65	.86	1.00	53.3	181.9	21.75	.69	.91	1.00
	4.53	9600	70.4	240.1	12.22	.65	.85	.99	65.6	223.8	14.78	.68	.89	1.00	60.3	205.8	17.90	.70	.93	1.00	54.6	186.2	21.84	.74	.98	1.00
22°C (71°F)	3.02	6400	71.2	243.1	12.27	.42	.56	.69	66.4	226.5	14.82	.43	.57	.72	61.0	208.3	17.94	.43	.59	.75	55.0	187.8	21.86	.44	.62	.79
	3.77	8000	73.0	249.2	12.36	.44	.60	.76	67.9	231.8	14.91	.44	.62	.79	62.3	212.7	18.05	.45	.65	.83	56.2	191.6	21.94	.47	.68	.89
	4.53	9600	74.2	253.1	12.43	.45	.65	.83	69.0	235.4	14.97	.46	.67	.87	63.2	215.7	18.11	.48	.70	.92	56.9	194.1	22.02	.50	.74	.97

88 kW STANDARD EFFICIENCY COOLING CAPACITY - ONE COMPRESSOR OPERATING — LCC300S2

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		
	m^3/s	cfm	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	40.0	136.4	7.46	.63	.80	.99	38.7	132.2	8.30	.64	.82	1.00	37.5	127.8	9.26	.65	.85	1.00	36.2	123.4	10.36	.66	.87	1.00
	4.72	10000	41.5	141.6	7.58	.68	.91	1.00	40.2	137.2	8.42	.70	.94	1.00	38.9	132.8	9.38	.72	.96	1.00	37.6	128.2	10.48	.74	.98	1.00
	5.66	12000	42.8	146.0	7.68	.76	.99	1.00	41.6	141.8	8.54	.78	1.00	1.00	40.3	137.4	9.50	.81	1.00	1.00	38.9	132.8	10.62	.83	1.00	1.00
19°C (67°F)	3.77	8000	42.3	144.2	7.64	.49	.61	.76	40.9	139.6	8.50	.50	.62	.78	39.6	135.0	9.46	.50	.63	.80	38.1	130.0	10.54	.51	.64	.83
	4.72	10000	43.4	148.2	7.74	.52	.66	.87	42.1	143.6	8.58	.53	.67	.90	40.6	138.6	9.56	.54	.69	.92	39.1	133.4	10.66	.54	.71	.95
	5.66	12000	44.4	151.4	7.82	.55	.73	.97	42.9	146.4	8.66	.56	.76	.98	41.4	141.4	9.64	.57	.78	1.00	39.9	136.0	10.74	.58	.81	1.00
22°C (71°F)	3.77	8000	44.8	153.0	7.86	.37	.48	.59	43.4	148.2	8.70	.37	.48	.60	42.0	143.2	9.68	.37	.49	.61	40.4	137.8	10.78	.37	.50	.62
	4.72	10000	46.0	157.0	7.96	.38	.51	.64	44.5	152.0	8.80	.38	.52	.65	43.0	146.8	9.78	.38	.52	.67	41.4	141.2	10.88	.39	.53	.69
	5.66	12000	46.8	159.6	8.04	.39	.54	.71	45.3	154.4	8.88	.39	.55	.73	43.7	149.0	9.84	.40	.56	.75	42.0	143.2	10.94	.40	.57	.78

88 kW STANDARD EFFICIENCY COOLING CAPACITY - ALL COMPRESSORS OPERATING — LCC300S2

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		
	m^3/s	cfm	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	79.6	271.5	17.64	.72	.89	1.00	75.5	257.5	20.86	.74	.92	1.00	70.8	241.7	24.76	.76	.96	1.00	65.8	224.6	29.44	.79	1.00	1.00
	4.72	10000	82.5	281.5	17.88	.78	.98	1.00	78.3	267.2	21.10	.81	1.00	1.00	73.9	252.1	25.06	.84	1.00	1.00	69.1	235.7	29.79	.89	1.00	1.00
	5.66	12000	85.3	291.1	18.12	.85	1.00	1.00	81.2	277.1	21.38	.89	1.00	1.00	76.7	261.7	25.34	.93	1.00	1.00	71.7	244.6	30.08	.97	1.00	1.00
19°C (67°F)	3.77	8000	84.0	286.5	18.04	.56	.70	.85	79.5	271.3	21.24	.57	.72	.88	74.5	254.3	25.16	.58	.74	.92	69.0	235.5	29.85	.60	.77	.97
	4.72	10000	86.3	294.5	18.20	.60	.76	.95	81.6	278.5	21.46	.61	.78	.98	76.5	261.1	25.38	.63	.82	1.00	70.8	241.7	30.06	.65	.86	1.00
	5.66	12000	88.0	300.3	18.40	.63	.83	1.00	83.2	283.9	21.62	.65	.86	1.00	78.0	266.1	25.53	.67	.91	1.00	72.4	246.9	30.23	.70	.95	1.00
22°C (71°F)	3.77	8000	89.1	304.1	18.48	.41	.55	.68	84.4	288.0	21.69	.42	.56	.69	79.2	270.3	25.64	.42	.57	.72	73.4	250.3	30.34	.43	.59	.75
	4.72	10000	91.4	311.7	18.67	.43	.58	.74	86.4	294.7	21.92	.43	.60	.76	80.9	276.1	25.82	.44	.62	.79	74.9	255.5	30.54	.45	.64	.84
	5.66	12000	92.8	316.7	18.83	.44	.63	.81	87.6	299.0	22.04	.45	.64	.84	82.1	280.1	25.97	.46	.67	.88	75.9	259.1	30.70	.47	.69	.93

COOLING RATINGS

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

88 kW STANDARD EFFICIENCY (R-410A) COOLING CAPACITY - ONE COMPRESSOR OPERATING — LCC300S4

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		
	m^3/s	cfm	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	39.5	134.8	7.24	.63	.81	.99	38.0	129.6	8.08	.64	.84	1.00	36.4	124.2	9.02	.66	.86	1.00	34.6	118.0	10.12	.67	.90	1.00
	4.72	10000	41.0	139.8	7.34	.68	.92	1.00	39.4	134.6	8.18	.71	.95	1.00	37.8	129.0	9.14	.74	.98	1.00	36.0	123.0	10.24	.77	1.00	1.00
	5.66	12000	42.3	144.2	7.44	.77	1.00	1.00	40.8	139.2	8.28	.79	1.00	1.00	39.2	133.8	9.26	.83	1.00	1.00	37.5	127.8	10.36	.87	1.00	1.00
19°C (67°F)	3.77	8000	41.7	142.4	7.40	.49	.61	.76	40.1	136.8	8.24	.50	.62	.79	38.3	130.8	9.20	.51	.64	.82	36.5	124.4	10.30	.51	.65	.86
	4.72	10000	43.0	146.6	7.48	.52	.66	.88	41.2	140.6	8.34	.53	.68	.91	39.4	134.4	9.30	.54	.70	.94	37.4	127.6	10.38	.55	.74	.98
	5.66	12000	43.8	149.4	7.56	.55	.74	.97	42.0	143.4	8.40	.56	.77	.99	40.2	137.0	9.36	.58	.80	1.00	38.2	130.2	10.44	.59	.84	1.00
22°C (71°F)	3.77	8000	44.3	151.2	7.58	.37	.48	.59	42.6	145.4	8.44	.37	.49	.60	40.7	139.0	9.40	.37	.49	.62	38.7	132.0	10.50	.37	.50	.63
	4.72	10000	45.4	155.0	7.68	.38	.51	.65	43.7	149.0	8.52	.38	.52	.66	41.7	142.2	9.50	.38	.53	.68	39.6	135.0	10.58	.39	.55	.71
	5.66	12000	46.2	157.6	7.74	.39	.55	.71	44.3	151.2	8.58	.39	.56	.74	42.3	144.4	9.54	.40	.57	.77	40.2	137.0	10.64	.41	.59	.81

88 kW STANDARD EFFICIENCY (R-410A) COOLING CAPACITY - ONE COMPRESSOR OPERATING — LCC300S4

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		
	m^3/s	cfm	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	77.6	264.9	17.20	.73	.90	1.00	72.2	246.5	20.39	.75	.94	1.00	66.3	226.3	24.33	.79	1.00	1.00	60.2	205.3	29.17	.84	1.00	1.00
	4.72	10000	80.6	274.9	17.41	.79	1.00	1.00	75.2	256.7	20.65	.83	1.00	1.00	69.5	237.3	24.63	.88	1.00	1.00	63.2	215.7	29.50	.95	1.00	1.00
	5.66	12000	83.4	284.7	17.65	.86	1.00	1.00	78.2	266.7	20.89	.91	1.00	1.00	72.2	246.3	24.87	.97	1.00	1.00	65.4	223.3	29.74	1.00	1.00	1.00
19°C (67°F)	3.77	8000	81.9	279.5	17.54	.56	.71	.86	76.1	259.7	20.75	.58	.73	.90	69.6	237.6	24.65	.60	.77	.96	62.4	213.0	29.47	.63	.81	1.00
	4.72	10000	84.1	287.1	17.73	.60	.77	.96	78.1	266.5	20.93	.62	.80	1.00	71.4	243.6	24.85	.65	.85	1.00	64.0	218.5	29.67	.68	.93	1.00
	5.66	12000	85.8	292.8	17.87	.64	.84	1.00	79.7	271.8	21.05	.66	.89	1.00	72.9	248.8	25.00	.70	.95	1.00	65.6	223.7	29.84	.74	1.00	1.00
22°C (71°F)	3.77	8000	87.0	296.7	17.94	.42	.55	.68	80.8	275.8	21.15	.42	.57	.71	73.9	252.3	25.09	.43	.59	.74	66.3	226.1	29.92	.44	.62	.79
	4.72	10000	89.0	303.8	18.11	.43	.59	.75	82.6	282.0	21.33	.44	.61	.78	75.4	257.4	25.25	.45	.64	.83	67.5	230.4	30.08	.46	.68	.90
	5.66	12000	90.4	308.5	18.23	.45	.63	.82	83.9	286.2	21.45	.46	.66	.86	76.5	261.2	25.37	.47	.69	.92	68.4	233.4	30.20	.49	.73	1.00

BLOWER DATA

FACTORY INSTALLED BELT DRIVE KIT SPECIFICATIONS

Model No.	Motor Efficiency	Nominal kW	Maximum kW	Nominal hp	Maximum hp	Drive Kit Number	Rev/Min Range
156H	Standard	1.5	1.7	2 hp	2.3	A	446 - 604
156H thru 210	Standard	2.2	2.6	3 hp	3.45	2	571 - 721
156H thru 300S	Standard	3.7	4.3	5 hp	5.75	2 3 4	571 - 721 708 - 871 788 - 988
180 thru 300S	Standard	5.6	6.4	7.5 hp	8.63	5 6 7	788 - 988 871 - 1071 708 - 871
240 thru 300S	Standard	7.5	8.6	10 hp	11.5	6 8	871 - 1071 945 - 1138

BLOWER DATA

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

1 - Any factory installed options air resistance (electric heat, economizer, etc.). See table below
2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.). See page 27

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

100 to 275 Pa — **LCC156**

Air Volume		External Static - Pa (in. w.g.)																					
		100 (0.40)			125 (0.50)			150 (0.60)			175 (0.70)			200 (0.80)			225 (0.90)			250 (1.00)			275 (1.10)		
		rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP
L/s	cfm	Low Static - 1.5 kW (2 hp)						Low Static - 2.2 kW (3 hp)									Standard Static - 3.7 kW (5 hp)								
1965	4160	551	0.67	0.90	596	0.78	1.04	641	0.88	1.18	681	0.99	1.33	720	1.10	1.48	755	1.22	1.64	790	1.34	1.80	822	1.45	1.95
2075	4400	561	0.72	0.97	606	0.85	1.14	651	0.97	1.30	689	1.08	1.45	727	1.19	1.60	762	1.32	1.77	797	1.45	1.94	830	1.57	2.11
2265	4800	577	0.84	1.13	620	0.98	1.31	662	1.10	1.48	702	1.24	1.66	742	1.37	1.83	777	1.50	2.01	811	1.63	2.18	842	1.76	2.36
2455	5200	593	0.99	1.33	636	1.13	1.51	678	1.25	1.68	716	1.40	1.88	754	1.54	2.07	789	1.69	2.27	823	1.84	2.46	856	1.98	2.66
2640	5600	609	1.13	1.51	652	1.28	1.71	694	1.42	1.91	732	1.58	2.12	769	1.74	2.33	803	1.89	2.53	837	2.04	2.73	868	2.19	2.93
2830	6000	630	1.31	1.75	670	1.45	1.95	710	1.60	2.15	748	1.78	238	785	1.94	2.60	818	2.11	2.83	850	2.28	3.05	880	2.42	3.25
2945	6240	640	1.41	1.89	680	1.58	2.12	720	1.75	2.34	757	1.92	2.57	795	2.08	2.79	827	2.25	3.02	860	2.42	3.24	890	2.59	3.47

300 to 475 Pa — **LCC156**

Air Volume		External Static - Pa (in. w.g.)																					
		300 (1.20)			325 (1.30)			350 (1.40)			375 (1.50)			400 (1.60)			425 (1.70)			450 (1.80)			475 (1.90)		
		rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP
L/s	cfm	Standard Static - 3.7 kW (5 hp)															Field Furnished								
1965	4160	855	1.57	2.11	885	1.69	2.26	915	1.80	2.41	942	1.92	2.57	970	2.04	2.73	997	2.15	2.88	1023	2.26	3.03	1048	2.39	3.20
2075	4400	862	1.70	2.28	892	1.81	2.43	922	1.92	2.58	950	2.05	2.75	977	2.18	2.92	1003	2.29	3.07	1028	2.40	3.22	1053	2.54	3.40
2265	4800	872	1.89	2.54	902	2.03	2.72	932	2.16	2.89	960	2.29	3.07	987	2.42	3.24	1014	2.55	3.42	1041	2.68	3.60	1064	2.82	3.78
2455	5200	888	2.13	2.86	916	2.27	3.04	944	2.39	3.21	972	2.54	3.41	999	2.68	3.60	1024	2.82	3.78	1049	2.95	3.96	1074	3.10	4.16
2640	5600	899	2.33	3.13	928	2.48	3.33	957	2.63	3.53	985	2.79	3.74	1012	2.95	3.95	1037	3.09	4.15	1062	3.24	4.35	1087	3.41	4.57
2830	6000	910	2.57	3.45	940	2.75	3.68	970	2.91	3.90	998	3.08	4.13	1025	3.24	4.35	1050	3.42	4.58	1075	3.58	4.80	1098	3.73	5.00
2945	6240	920	2.75	3.69	947	2.92	3.92	975	3.09	4.14	1002	3.26	4.37	1030	3.42	4.59	1055	3.59	4.82	1080	3.76	5.04	1105	3.92	5.26

500 to 650 Pa — **LCC156**

Air Volume		External Static - Pa (in. w.g.)																					
		500 (2.00)			525 (2.10)			550 (2.20)			575 (2.30)			600 (2.40)			625 (2.50)			650 (2.60)					
		rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP			
L/s	cfm	Field Furnished																							
1965	4160	1073	2.52	3.38	1097	2.64	3.54	1120	2.77	3.71	1142	2.88	3.86	1165	2.99	4.01	1187	3.11	4.17	1208	3.23	4.33			
2075	4400	1078	2.66	3.57	1103	2.80	3.76	1127	2.95	3.95	1150	3.06	4.10	1172	3.17	4.25	1193	3.30	4.42	1213	3.42	4.59			
2265	4800	1087	2.95	3.95	1112	3.08	4.13	1136	3.21	4.30	1159	3.36	4.50	1181	3.51	4.70	1204	3.64	4.88	1226	3.77	5.06			
2455	5200	1099	3.25	4.35	1124	3.39	4.55	1148	3.54	4.74	1171	3.69	4.94	1193	3.83	5.14	1214	3.98	5.34	1234	4.13	5.54			
2640	5600	1112	3.58	4.80	1135	3.73	5.00	1157	3.88	5.2	1180	4.04	5.41	1202	4.19	5.62	1223	4.35	5.83	1244	4.51	6.04			
2830	6000	1120	3.88	5.20	1145	4.05	5.43	1170	4.21	5.65	1193	4.39	5.88	1215	4.55	6.10	1235	4.72	6.33	1255	4.89	6.55			
2945	6240	1130	4.10	5.49	1152	4.26	5.71	1175	4.43	5.94	1197	4.62	6.19	1220	4.80	6.44	1242	4.97	6.66	1265	5.14	6.89			

AIR RESISTANCE - Factory Installed Options

Air Volume		Electric Heat		Economizer		Horizontal Roof Curb		Filters			
								MERV 11		MERV 15	
L/s	cfm	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.
1965	4160	- - -	- - -	- - -	- - -	17.4	0.07	2.5	0.01	5.0	0.02
2075	4400	- - -	- - -	- - -	- - -	17.4	0.07	2.5	0.01	5.0	0.02
2265	4800	- - -	- - -	- - -	- - -	19.9	0.08	2.5	0.01	5.0	0.02
2455	5000	- - -	- - -	- - -	- - -	19.9	0.08	2.5	0.01	5.0	0.02
2640	5600	- - -	- - -	- - -	- - -	24.9	0.10	5.0	0.02	5.0	0.02
2830	6000	- - -	- - -	- - -	- - -	27.3	0.11	5.0	0.02	7.5	0.03
2945	6240	2.5	0.01	2.5	0.01	29.8	0.12	5.0	0.02	7.5	0.03

BLOWER DATA

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

1 - Any factory installed options air resistance (electric heat, economizer, etc.). See table below
2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.). See page 27

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

100 to 275 Pa **LCC180**

Air Volume		External Static - Pa (in. w.g.)																							
		100 (0.40)			125 (0.50)			150 (0.60)			175 (0.70)			200 (0.80)			225 (0.90)			250 (1.00)			275 (1.10)		
		rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP
L/s	cfm	**Low Static - 2.2 kW (3hp)**												**Standard Static - 3.7 kW (5 hp)**											
2265	4800	577	0.84	1.13	620	0.98	1.31	662	1.10	1.48	702	1.24	1.66	742	1.37	1.83	777	1.50	2.01	811	1.63	2.18	842	1.76	2.36
2360	5000	585	0.93	1.25	628	1.07	1.43	670	1.19	1.60	710	1.33	1.78	750	1.45	1.95	783	1.59	2.13	815	1.72	2.30	848	1.87	2.50
2595	5500	605	1.08	1.45	648	1.23	1.65	690	1.38	1.85	728	1.53	2.05	765	1.68	2.25	800	1.83	2.45	835	1.98	2.65	865	2.13	2.85
2830	6000	630	1.31	1.75	670	1.45	1.95	710	1.60	2.15	748	1.78	2.38	785	1.94	2.60	818	2.11	2.83	850	2.28	3.05	880	2.42	3.25
3065	6500	650	1.53	2.05	690	1.70	2.28	730	1.87	2.50	768	2.05	2.75	805	2.24	3.00	838	2.41	3.23	870	2.57	3.45	900	2.76	3.70
3305	7000	675	1.75	2.35	715	1.96	2.63	755	2.16	2.90	790	2.35	3.15	825	2.54	3.40	858	2.75	3.68	890	2.95	3.95	920	3.13	4.20
3400	7200	687	1.90	2.55	725	2.10	2.81	763	2.28	3.06	798	2.48	3.33	833	2.69	3.60	866	2.88	3.86	898	3.07	4.11	926	3.25	4.36

300 to 475 Pa **LCC180**

Air Volume		External Static - Pa (in. w.g.)																							
		300 (1.20)			325 (1.30)			350 (1.40)			375 (1.50)			400 (1.60)			425 (1.70)			450 (1.80)			475 (1.90)		
		rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP
L/s	cfm	**Standard Static - 3.7 kW (5 hp)**															**High Static - 5.6 kW (7.5 hp)**								
2265	4800	872	1.89	2.54	902	2.03	2.72	932	2.16	2.89	960	2.29	3.07	987	2.42	3.24	1014	2.55	3.42	1041	2.69	3.60	1064	2.82	3.78
2360	5000	880	2.01	2.70	910	2.15	2.88	940	2.28	3.05	968	2.41	3.23	995	2.54	3.40	1020	2.69	3.60	1045	2.83	3.80	1070	2.97	3.98
2595	5500	895	2.28	3.05	925	2.42	3.25	955	2.57	3.45	983	2.72	3.65	1010	2.87	3.85	1035	3.02	4.05	1060	3.17	4.25	1085	3.34	4.48
2830	6000	910	2.57	3.45	940	2.75	3.68	970	2.91	3.90	998	3.08	4.13	1025	3.25	4.35	1050	3.42	4.58	1075	3.58	4.80	1098	3.73	5.00
3065	6500	930	2.95	3.95	958	3.12	4.18	985	3.28	4.40	1013	3.45	4.63	1040	3.62	4.85	1065	3.80	5.10	1090	3.99	5.35	1115	4.18	5.60
3305	7000	950	3.32	4.45	978	3.51	4.70	1005	3.69	4.95	1030	3.86	5.18	1055	4.03	5.40	1080	4.24	5.68	1105	4.44	5.95	1130	4.63	6.20
3400	7200	954	3.44	4.61	984	3.66	4.90	1013	3.87	5.19	1038	4.06	5.44	1063	4.24	5.68	1088	4.43	5.94	1113	4.62	6.19	1136	4.80	6.44

500 to 650 Pa **LCC180**

Air Volume		External Static - Pa (in. w.g.)																							
		500 (2.00)			525 (2.10)			550 (2.20)			575 (2.30)			600 (2.40)			625 (2.50)			650 (2.60)					
		rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP			
L/s	cfm	**Field Furnished**																							
2265	4800	1087	2.95	3.95	1112	3.08	4.13	1136	3.21	4.30	1159	3.36	4.50	1181	3.51	4.70	1204	3.64	4.88	1226	3.77	5.06			
2360	5000	1095	3.10	4.15	1118	3.23	4.33	1140	3.36	4.50	1163	3.51	4.70	1185	3.66	4.90	1208	3.80	5.10	1230	3.95	5.30			
2595	5500	1110	3.51	4.70	1133	3.66	4.90	1155	3.80	5.10	1178	3.95	5.30	1200	4.10	5.50	1220	4.25	5.70	1240	4.40	5.90			
2830	6000	1120	3.88	5.20	1145	4.05	5.43	1170	4.21	5.65	1193	4.39	5.88	1215	4.55	6.10	1235	4.72	6.33	1255	4.89	6.55			
3065	6500	1140	4.36	5.85	1163	4.54	6.08	1185	4.70	6.30	1205	4.87	6.53	1225	5.04	6.75	1248	5.22	7.00	1270	5.41	7.25			
3305	7000	1155	4.81	6.45	1178	5.00	6.70	1200	5.18	6.95	1220	5.37	7.20	1240	5.56	7.45	1263	5.77	7.73	1285	5.97	8.00			
3400	7200	1159	4.99	6.69	1182	5.19	6.96	1204	5.39	7.23	1226	5.60	7.50	1248	5.80	7.77	1269	5.99	8.03	1289	6.18	8.28			

AIR RESISTANCE - Factory Installed Options

Air Volume		Electric Heat		Economizer		Horizontal Roof Curb		Filters MERV 11		Filters MERV 15	
L/s	cfm	Pa	in. wg.	Pa	in. wg.	Pa	in. wg.	Pa	in. wg.	Pa	in. wg.
2265	4800	- - -	- - -	- - -	- - -	19.9	0.08	2.5	0.01	5.0	0.02
2360	5000	- - -	- - -	- - -	- - -	19.9	0.08	2.5	0.01	5.0	0.02
2595	5500	- - -	- - -	- - -	- - -	24.9	0.10	5.0	0.02	5.0	0.02
2830	6000	2.5	.01	- - -	- - -	27.3	0.11	5.0	0.02	7.4	0.03
3065	6500	2.5	.01	5.0	0.02	32.3	0.13	5.0	0.02	7.4	0.03
3305	7000	2.5	.01	9.9	0.04	37.3	0.15	7.4	0.03	7.4	0.03
3400	7200	2.5	.01	12.4	0.05	39.8	0.16	7.4	0.03	7.4	0.03

BLOWER DATA

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

1 - Any factory installed options air resistance (electric heat, economizer, etc.). See table below
2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.). See page 27

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

75 to 250 Pa **LCC210**

Air Volume		External Static - Pa (in. w.g.)																							
		75 (0.30)			100 (0.40)			125 (0.50)			150 (0.60)			175 (0.70)			200 (0.80)			225 (0.90)			250 (1.00)		
		rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP
L/s	cfm	**Low Static - 2.2 kW (3 hp)**									**Standard Static - 3.7 kW (5 hp)**														
2645	5600	609	1.13	1.51	652	1.28	1.71	694	1.42	1.91	732	1.58	2.12	769	1.75	2.33	803	1.89	2.53	837	2.04	2.73	868	2.19	2.93
2830	6000	630	1.31	1.75	670	1.45	1.95	710	1.60	2.15	748	1.78	2.38	785	1.94	2.60	818	2.11	2.83	850	2.28	3.05	880	2.42	3.25
3065	6500	650	1.53	2.05	690	1.70	2.28	730	1.87	2.50	768	2.05	2.75	805	2.24	3.00	838	2.41	3.23	870	2.57	3.45	900	2.76	3.70
3305	7000	675	1.75	2.35	715	1.96	2.63	755	2.16	2.90	790	2.35	3.15	825	2.54	3.40	858	2.75	3.68	890	2.95	3.95	920	3.13	4.20
3540	7500	700	2.05	2.75	738	2.26	3.03	775	2.46	3.30	810	2.67	3.58	845	2.87	3.85	878	3.10	4.15	910	3.32	4.45	938	3.51	4.70
3775	8000	725	2.39	3.20	763	2.61	3.50	800	2.83	3.80	833	3.04	4.08	865	3.25	4.35	898	3.47	4.65	930	3.69	4.95	958	3.90	5.23
3965	8400	746	2.65	3.55	783	2.89	3.87	819	3.12	4.18	853	3.35	4.49	886	3.58	4.80	916	3.82	5.12	946	4.05	5.43	974	4.27	5.73

275 to 450 Pa **LCC210**

Air Volume		External Static - Pa (in. w.g.)																							
		275 (1.10)			300 (1.20)			325 (1.30)			350 (1.40)			375 (1.50)			400 (1.60)			425 (1.70)			450 (1.80)		
		rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP
L/s	cfm	**Standard Static - 3.7 kW (5 hp)**												**Standard Static - 5.6 kW (7.5 hp)**									**Field Furnished**		
2645	5600	899	2.33	3.13	928	2.48	3.33	957	2.64	3.53	985	2.79	3.74	1012	2.95	3.95	1037	3.10	4.15	1062	3.25	4.35	1087	3.42	4.58
2830	6000	910	2.57	3.45	940	2.75	3.68	970	2.91	3.90	998	3.08	4.13	1025	3.25	4.35	1050	3.42	4.58	1075	3.58	4.80	1098	3.73	5.00
3065	6500	930	2.95	3.95	958	3.12	4.18	985	3.28	4.40	1013	3.45	4.63	1040	3.62	4.85	1065	3.80	5.10	1090	3.99	5.35	1115	4.18	5.60
3305	7000	950	3.32	4.45	978	3.51	4.70	1005	3.69	4.95	1030	3.86	5.18	1055	4.03	5.40	1080	4.24	5.68	1105	4.44	5.95	1130	4.63	6.20
3540	7500	965	3.69	4.95	993	3.90	5.23	1020	4.10	5.50	1048	4.31	5.78	1075	4.51	6.05	1100	4.72	6.33	1125	4.92	6.60	1148	5.13	6.88
3775	8000	985	4.10	5.50	1013	4.33	5.80	1040	4.55	6.10	1065	4.77	6.40	1090	5.00	6.70	1115	5.21	6.98	1140	5.41	7.25	1163	5.63	7.55
3965	8400	1001	4.50	6.03	1029	4.74	6.35	1056	4.97	6.66	1081	5.19	6.96	1106	5.42	7.26	1131	5.65	7.58	1156	5.89	7.89	1179	6.11	8.19

475 to 675 Pa **LCC210**

Air Volume		External Static - Pa (in. w.g.)																							
		475 (1.90)			500 (2.00)			525 (2.10)			550 (2.20)			575 (2.30)			600 (2.40)			625 (2.50)					
		rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP			
L/s	cfm	**Field Furnished**																							
2645	5600	1112	3.58	4.80	1135	3.73	5.00	1157	3.88	5.20	1180	4.04	5.41	1202	4.19	5.62	1223	4.35	5.83	1244	4.51	6.04			
2830	6000	1120	3.88	5.20	1145	4.05	5.43	1170	4.21	5.65	1193	4.39	5.88	1215	4.55	6.10	1235	4.72	6.33	1255	4.89	6.55			
3065	6500	1140	4.36	5.85	1163	4.54	6.08	1185	4.70	6.30	1205	4.87	6.53	1225	5.04	6.75	1248	5.22	7.00	1270	5.41	7.25			
3305	7000	1155	4.81	6.45	1178	5.00	6.70	1200	5.18	6.95	1220	5.37	7.20	1240	5.56	7.45	1263	5.77	7.73	1285	5.97	8.00			
3540	7500	1170	5.33	7.15	1193	5.52	7.40	1215	5.71	7.65	1238	5.93	7.95	1260	6.15	8.25	1280	6.34	8.50	1300	6.53	8.75			
3775	8000	1185	5.86	7.85	1208	6.06	8.13	1230	6.27	8.40	1253	6.49	8.70	1275	6.71	9.00	1295	6.94	9.30	1315	7.16	9.60			
3965	8400	1201	6.33	8.49	1224	6.56	8.79	1246	6.78	9.09	1266	7.00	9.38	1286	7.21	9.67	1307	7.45	9.98	1328	7.68	10.29			

AIR RESISTANCE - Factory or Field Installed Options

Air Volume		Electric Heat		Economizer		Horizontal Roof Curb		Filters			
								MERV 11		MERV 15	
L/s	cfm	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.
2645	5600	- - -	- - -	- - -	- - -	24.9	0.10	5.0	0.02	5.0	0.02
2830	6000	2.5	.01	- - -	- - -	27.3	0.11	5.0	0.02	7.5	0.03
3065	6500	2.5	.01	5.0	0.02	32.3	0.13	5.0	0.02	7.5	0.03
3305	7000	2.5	.01	9.9	0.04	37.3	0.15	7.5	0.03	7.5	0.03
3540	7500	2.5	.01	14.9	0.06	42.3	0.17	7.5	0.03	7.5	0.03
3775	8000	5.0	.02	22.4	0.09	47.2	0.19	9.9	0.04	7.5	0.03
3965	8400	5.0	.02	27.3	0.11	52.2	0.21	9.9	0.04	7.5	0.03

BLOWER DATA

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

1 - Any factory installed options air resistance (electric heat, economizer, etc.). See table below
2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.). See page 27

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

75 to 250 Pa **LCC240**

Air Volume		External Static - Pa (in. w.g.)																					
		75 (.30)			100 (0.40)			125 (0.50)			150 (0.60)			175 (0.70)			200 (0.80)			225 (0.90)			250 (1.00)		
		rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP
L/s	cfm	**Low Static - 3.7 kW (5 hp)**																		**Standard - 5.6 kW (7.5 hp)**					
3020	6400	648	1.48	1.99	688	1.66	2.22	727	1.84	2.46	764	2.01	2.69	801	2.18	2.92	834	2.35	3.15	866	2.53	3.39	896	2.70	3.62
3305	7000	675	1.75	2.35	715	1.96	2.63	755	2.16	2.90	790	2.35	3.15	825	2.54	3.40	858	2.75	3.68	890	2.95	3.95	920	3.13	4.20
3540	7500	700	2.05	2.75	738	2.26	3.03	775	2.46	3.30	810	2.67	3.58	845	2.87	3.85	878	3.10	4.15	910	3.32	4.45	938	3.51	4.70
3775	8000	725	2.39	3.20	763	2.61	3.50	800	2.83	3.80	833	3.04	4.08	865	3.25	4.35	898	3.47	4.65	930	3.69	4.95	958	3.90	5.23
4010	8500	750	2.72	3.65	788	2.97	3.98	825	3.21	4.30	858	3.43	4.60	890	3.66	4.90	920	3.90	5.23	950	4.14	5.55	978	4.36	5.85
4245	9000	780	3.13	4.20	815	3.38	4.53	850	3.62	4.85	880	3.86	5.18	910	4.10	5.50	940	4.35	5.83	970	4.59	6.15	998	4.83	6.48
4530	9600	811	3.63	4.87	845	3.89	5.22	879	4.16	5.57	910	4.43	5.94	941	4.71	6.31	970	4.98	6.67	999	5.24	7.02	1027	5.51	7.38

275 to 450 Pa **LCC240**

Air Volume		External Static - Pa (in. w.g.)																					
		275 (1.10)			300 (1.20)			325 (1.30)			350 (1.40)			375 (1.50)			400 (1.60)			425 (1.70)			450 (1.80)		
		rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP
L/s	cfm	**Standard Static - 5.6 kW (7.5 hp)**																		**High Static - 7.5 kW (10 hp)**					
3020	6400	926	2.87	3.85	954	3.04	4.08	981	3.21	4.30	1008	3.38	4.53	1035	3.54	4.75	1060	3.72	4.98	1085	3.89	5.22	1110	4.07	5.45
3305	7000	950	3.32	4.45	978	3.51	4.70	1005	3.69	4.95	1030	3.86	5.18	1055	4.03	5.40	1080	4.24	5.68	1105	4.44	5.95	1130	4.63	6.20
3540	7500	965	3.69	4.95	993	3.90	5.23	1020	4.10	5.50	1048	4.31	5.78	1075	4.51	6.05	1100	4.72	6.33	1125	4.92	6.60	1148	5.13	6.88
3775	8000	985	4.10	5.50	1013	4.33	5.80	1040	4.55	6.10	1065	4.77	6.40	1090	5.00	6.70	1115	5.21	6.98	1140	5.41	7.25	1163	5.63	7.55
4010	8500	1005	4.59	6.15	1033	4.83	6.48	1060	5.07	6.80	1085	5.30	7.10	1110	5.52	7.40	1135	5.77	7.73	1160	6.01	8.05	1183	6.23	8.35
4245	9000	1025	5.07	6.80	1053	5.33	7.15	1080	5.60	7.50	1105	5.84	7.83	1130	6.08	8.15	1153	6.30	8.45	1175	6.53	8.75	1198	6.77	9.08
4530	9600	1054	5.77	7.74	1079	6.03	8.08	1104	6.27	8.41	1129	6.54	8.77	1154	6.81	9.13	1177	7.06	9.46	1199	7.30	9.78	1222	7.56	10.14

475 to 625 Pa **LCC240**

Air Volume		External Static - Pa (in. w.g.)																					
		475 (1.90)			500 (2.00)			525 (2.10)			550 (2.20)			575 (2.30)			600 (2.40)			625 (2.50)					
		rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP			
L/s	cfm	**High - 7.5 kW**			**Field Furnished**																				
3020	6400	1135	4.24	5.68	1157	4.41	5.91	1180	4.59	6.15	1202	4.77	6.40	1225	4.96	6.65	1246	5.13	6.88	1268	5.30	7.11			
3305	7000	1155	4.81	6.45	1178	5.00	6.70	1200	5.18	6.95	1220	5.37	7.20	1240	5.56	7.45	1263	5.77	7.73	1285	5.97	8.00			
3540	7500	1170	5.33	7.15	1193	5.52	7.40	1215	5.71	7.65	1238	5.93	7.95	1260	6.15	8.25	1280	6.34	8.50	1300	6.53	8.75			
3775	8000	1185	5.86	7.85	1208	6.06	8.13	1230	6.27	8.40	1253	6.49	8.70	1275	6.71	9.00	1295	6.94	9.30	1315	7.16	9.60			
4010	8500	1205	6.45	8.65	1228	6.68	8.95	1250	6.90	9.25	1270	7.12	9.55	1290	7.35	9.85	1310	7.57	10.15	1330	7.80	10.45			
4245	9000	1220	7.01	9.40	1243	7.27	9.75	1265	7.53	10.10	1288	7.80	10.45	1310	8.06	10.80	1330	8.28	11.10	1350	8.50	11.40			
4530	9600	1244	7.83	10.50	1267	8.11	10.87	1289	8.38	11.23	- - -			- - -			- - -			- - -					

AIR RESISTANCE - Factory or Field Installed Options

Air Volume		Electric Heat		Economizer		Horizontal Roof Curb		Filters			
								MERV 11		MERV 15	
L/s	cfm	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.
3020	6400	2.5	.01	5.0	0.02	32.3	0.13	5.0	0.02	7.5	0.03
3305	7000	2.5	.01	9.9	0.04	37.3	0.15	7.5	0.03	7.5	0.03
3540	7500	2.5	.01	14.9	0.06	42.3	0.17	7.5	0.03	7.5	0.03
3775	8000	5.0	.02	22.4	0.09	47.2	0.19	9.9	0.04	7.5	0.03
4010	8500	5.0	.02	27.3	0.11	52.2	0.21	9.9	0.04	7.5	0.03
4245	9000	9.9	.04	34.8	0.14	59.7	0.24	9.9	0.04	9.9	0.04
4530	9600	9.9	.05	39.8	0.16	64.6	0.26	12.4	0.05	9.9	0.04

BLOWER DATA

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

1 - Any factory installed options air resistance (electric heat, economizer, etc.). See table below
2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.). See page 27

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

25 to 200 Pa — **LCC300S**

Air Volume cfm	External Static - Pa (in. w.g.)																					
	25 (0.10)			50 (0.10)			75 (0.20)			100 (0.30)			125 (0.40)			150 (0.50)			175 (0.60)			200 (0.70)		
	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP
L/s cfm	**Low Static - 3.7 kW (5 hp)**																					
3775 8000	725	2.39	3.20	763	2.61	3.50	800	2.83	3.80	833	3.04	4.08	865	3.25	4.35	898	3.47	4.65	930	3.69	4.95	958	3.90	5.23
4010 8500	750	2.72	3.65	788	2.97	3.98	825	3.21	4.30	858	4.43	4.60	890	3.66	4.90	920	3.90	5.23	950	4.14	5.55	978	4.36	5.85
4365 9250	790	3.32	4.45	825	3.58	4.80	860	3.84	5.15	893	4.10	5.50	925	4.36	5.85	955	4.63	6.20	985	4.89	6.55	1013	5.13	6.88
4720 10000	835	4.03	5.40	868	4.31	5.78	900	4.59	6.15	930	4.85	6.50	960	5.11	6.85	988	5.39	7.23	1015	5.67	7.60	1043	5.95	7.98
5075 10750	875	4.77	6.40	908	5.10	6.83	940	5.41	7.25	970	5.71	7.65	1000	6.01	8.05	1028	6.30	8.45	1055	6.60	8.85	1080	6.90	9.25
5225 11500	915	5.52	7.40	948	5.88	7.88	980	6.23	8.35	1010	6.56	8.80	1040	6.90	9.25	1068	7.22	9.68	1095	7.53	10.1	1118	7.86	10.5
5665 12000	935	5.93	7.95	963	6.23	8.35	990	6.53	8.75	1020	6.89	9.23	1050	7.24	9.70	1075	7.57	10.2	1100	7.91	10.6	1125	8.19	11.0

225 to 400 Pa — **LCC300S**

Air Volume	External Static - Pa (in. w.g.)																							
	225 (0.80)			250 (0.90)			275 (1.00)			300 (1.10)			325 (1.20)			350 (1.30)			375 (1.40)			400 (1.50)		
	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP
L/s cfm	**Standard Static - 5.6 kW (7.5 hp)**												**Standard - 7.5 kW (10 hp)**						**Field Furnished**					
3775 8000	985	4.10	5.50	1013	4.33	5.80	1040	4.55	6.10	1065	4.77	6.40	1090	5.00	6.70	1115	5.21	6.98	1140	5.41	7.25	1163	5.63	7.55
4010 8500	1005	4.59	6.15	1033	4.83	6.48	1060	5.07	6.80	1085	5.30	7.10	1110	5.52	7.40	1135	5.77	7.73	1160	6.01	8.05	1183	6.23	8.35
4365 9250	1040	5.37	7.20	1065	5.62	7.53	1090	5.86	7.85	1115	6.12	8.20	1140	6.38	8.55	1163	6.62	8.88	1185	6.86	9.20	1208	7.11	9.53
4720 10000	1070	6.23	8.35	1095	6.49	8.70	1120	6.75	9.05	1145	7.03	9.43	1170	7.31	9.80	1193	7.57	10.15	1215	7.83	10.50	1238	8.12	10.88
5075 10750	1105	7.20	9.65	1130	7.50	10.05	1155	7.80	10.45	1178	8.08	10.83	1200	8.36	11.20	1222	8.63	11.57	- - -			- - -		
5225 11500	1140	8.17	10.95	1165	8.50	11.40	1190	8.84	11.85	1210	9.12	12.23	1230	9.40	12.60	- - -			- - -			- - -		
5665 12000	1150	8.47	11.35	1173	8.80	11.80	1195	9.14	12.25	- - -			- - -						- - -			- - -		

425 to 575 Pa — **LCC300S**

Air Volume	External Static - Pa (in. w.g.)																							
	425 (1.60)			450 (1.70)			475 (1.80)			500 (1.90)			525 (2.00)			550 (2.20)			575 (2.10)					
	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP	rev/ min	kW	BHP			
L/s cfm	**Field Furnished**																							
3775 8000	1185	5.86	7.85	1208	6.06	8.13	1230	6.27	8.40	1253	6.49	8.70	1275	6.71	9.00	1295	6.94	9.30	1315	7.16	9.60			
4010 8500	1205	6.45	8.65	1228	6.68	8.95	1250	6.90	9.25	1270	6.90	9.25	1290	7.35	9.85	1310	7.57	10.15	1330	7.80	10.45			
4365 9250	1230	7.35	9.85	1253	7.61	10.20	1275	7.87	10.55	1295	7.87	10.55	1315	8.36	11.20	- - -			- - -					
4720 10000	1260	8.39	11.25	1283	8.67	11.62	- - -			- - -			- - -			- - -			- - -					

AIR RESISTANCE - Factory or Field Installed Options

Air Volume		Electric Heat		Economizer		Horizontal Roof Curb		Filters			
								MERV 11		MERV 15	
L/s	cfm	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.
3775	8000	5.0	.02	22.4	0.09	32.3	0.13	9.9	0.04	7.5	0.03
4010	8500	5.0	.02	27.3	0.11	37.3	0.15	9.9	0.04	7.5	0.03
4365	9250	9.9	.04	37.2	0.15	44.7	0.18	12.4	0.05	7.5	0.03
4720	10,000	14.9	.06	47.2	0.19	52.2	0.21	14.9	0.06	9.9	0.04

BLOWER DATA

CEILING DIFFUSER AIR RESISTANCE

Air Volume		Step-Down Diffuser												Step-Down Diffuser Flush Diffuser			
		RTD11-185						RTD11-275						FD11-185		FD11-275	
		2 Ends Open		1 Side/2 Ends Open		All Ends & Sides Open		2 Ends Open		1 Side/2 Ends Open		All Ends & Sides Open					
L/s	cfm	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.	Pa	in. w.g.
2360	5000	127	.51	109	.44	97	.39	- - -	- - -	- - -	- - -	- - -	- - -	67	.27	- - -	- - -
2455	5200	139	.56	119	.48	104	.42	- - -	- - -	- - -	- - -	- - -	- - -	75	.30	- - -	- - -
2550	5400	152	.61	129	.52	112	.45	- - -	- - -	- - -	- - -	- - -	- - -	82	.33	- - -	- - -
2645	5600	164	.66	139	.56	119	.48	- - -	- - -	- - -	- - -	- - -	- - -	90	.36	- - -	- - -
2735	5800	177	.71	147	.59	127	.51	- - -	- - -	- - -	- - -	- - -	- - -	97	.39	- - -	- - -
2830	6000	189	.76	157	.63	137	.55	90	.36	77	.31	67	.27	104	.42	72	.29
2925	6200	199	.80	169	.68	147	.59	- - -	- - -	- - -	- - -	- - -	- - -	114	.46	- - -	- - -
3020	6400	214	.86	179	.72	157	.63	- - -	- - -	- - -	- - -	- - -	- - -	124	.50	- - -	- - -
3065	6500	- - -	- - -	- - -	- - -	- - -	- - -	104	.42	90	.36	77	.31	- - -	- - -	85	.34
3115	6600	229	.92	191	.77	167	.67	- - -	- - -	- - -	- - -	- - -	- - -	134	.54	- - -	- - -
3210	6800	246	.99	206	.83	174	.72	- - -	- - -	- - -	- - -	- - -	- - -	144	.58	- - -	- - -
3305	7000	256	1.03	216	.87	189	.76	122	.49	102	.41	90	.36	154	.62	99	.40
3400	7200	271	1.09	229	.92	199	.80	- - -	- - -	- - -	- - -	- - -	- - -	164	.66	- - -	- - -
3490	7400	286	1.15	241	.97	209	.84	- - -	- - -	- - -	- - -	- - -	- - -	174	.70	- - -	- - -
3540	7500	- - -	- - -	- - -	- - -	- - -	- - -	127	.51	114	.46	102	.41	- - -	- - -	112	.45
3585	7600	301	1.20	254	1.02	219	.88	- - -	- - -	- - -	- - -	- - -	- - -	184	.74	- - -	- - -
3775	8000	- - -	- - -	- - -	- - -	- - -	- - -	147	.59	122	.49	107	.43	- - -	- - -	124	.50
4010	8500	- - -	- - -	- - -	- - -	- - -	- - -	172	.69	144	.58	124	.50	- - -	- - -	142	.57
4245	9000	- - -	- - -	- - -	- - -	- - -	- - -	196	.79	167	.67	144	.58	- - -	- - -	164	.66
4485	9500	- - -	- - -	- - -	- - -	- - -	- - -	221	.89	186	.75	162	.65	- - -	- - -	184	.74
4720	10,000	- - -	- - -	- - -	- - -	- - -	- - -	249	1.00	209	.84	182	.73	- - -	- - -	201	.81
4955	10,500	- - -	- - -	- - -	- - -	- - -	- - -	273	1.10	229	.92	199	.80	- - -	- - -	221	.89
5190	11,000	- - -	- - -	- - -	- - -	- - -	- - -	301	1.21	251	1.01	219	.88	- - -	- - -	239	.96

BLOWER DATA

POWER EXHAUST FANS

STANDARD STATIC OPERATION

Return Duct Negative Static Pressure		Air Volume	
Pa	in. w.g.	L/s	cfm
0	0	3395	7190
12	0.05	3230	6840
25	0.10	3040	6440
37	0.15	2795	5925
50	0.20	2545	5390
62	0.25	2275	4825
75	0.30	1990	4215
87	0.35	1690	3585
100	0.40	1380	2925
112	0.45	1055	2240
125	0.50	725	1535

CEILING DIFFUSER AIR THROW DATA

Model No.	Air Volume		[1] Effective Throw Range			
			Step-Down		Flush	
	L/s	cfm	m	ft.	m	ft.
	Diffuser Model	**Diffuser Model**	**RTD11-185**	**RTD11-185**	**FD11-185**	**FD11-185**
156H 180	2645	5600	12 - 15	39 - 49	9 - 11	28 - 37
	2740	5800	13 - 16	42 - 51	9 - 12	29 - 38
	2830	6000	13 - 17	44 - 54	12 - 15	40 - 50
	2925	6200	14 - 17	45 - 55	13 - 16	42 - 51
	3020	6400	14 - 17	46 - 55	13 - 16	53 - 52
	3115	6600	14 - 17	57 - 56	14 - 17	45 - 56
	Diffuser Model	**Diffuser Model**	**RTD11-275**	**RTD11-275**	**FD11-275**	**FD11-275**
210 240 300S	3400	7200	10 - 12	33 - 38	8 - 11	26 - 35
	3490	7400	11 - 12	35 - 40	9 - 11	28 - 37
	3585	7600	11 - 13	36 - 41	9 - 12	29 - 38
	3680	7800	11 - 13	38 - 43	12 - 15	40 - 50
	3775	8000	12 - 13	39 - 44	13 - 16	42 - 51
	3870	8200	12 - 14	41 - 46	13 - 16	43 - 52
	3965	8400	13 - 15	43 - 49	13 - 17	44 - 54
	4060	8600	13 - 15	44 - 50	14 - 17	46 - 57
	4155	8800	14 - 17	47 - 55	15 - 18	48 - 59

[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/minute (50 ft/min). Four sides open.

ELECTRIC HEAT CAPACITIES

Volts Input	10.4 kW			20.8 kW			31.2 kW			41.6 kW			62.5 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	9.4	32 100	1	18.8	64 200	1	28.2	96 300	2	37.6	128 400	2	56.4	192 500	2
400	10.4	35 600	1	20.8	71 100	1	31.2	106 700	2	41.6	142 200	2	62.5	213 200	2
420	11.5	39 200	1	23.0	78 400	1	34.4	117 600	2	45.9	156 800	2	68.9	235 100	2

ELECTRICAL/ELECTRIC HEAT DATA

			LCC156H2			LCC156H4		
Voltage - 50hz - 3 phase with neutral			**380/420V**			**380/420V**		
Compressors (3)	Rated Load Amps (total)		7.1 (21.3)			7.9 (23.7)		
	Locked Rotor Amps (total)		50 (150)			46 (138)		
Outdoor Fan Motors (4)	Full Load Amps (total)		1.3 (5.2)			1.3 (5.2)		
	Locked Rotor Amps (total)		2.4 (9.6)			2.4 (9.6)		
Standard Power Exhaust (2)	Watts (Horsepower)		249 (1/3)			249 (1/3)		
	Full Load Amps (total)		1.3 (2.6)			1.3 (2.6)		
	Locked Rotor Amps (total)		2.4 (4.8)			2.4 (4.8)		
Indoor Blower Motor	kW (Horsepower)		**1.5 (2)**	**2.2 (3)**	**3.7 (5)**	**1.5 (2)**	**2.2 (3)**	**3.7 (5)**
	Rated Load Amps		3.5	5.0	7.8	3.5	5.0	7.8
	Locked Rotor Amps		22.1	27	41	22.1	27	41
[1] Maximum Overcurrent Protection		**Unit only**	35	40	40	40	40	45
	with Standard Exhaust Fan and [6] Electric Heat	**0 kW**	40	40	45	40	45	45
		10.4 kW	40	40	45	40	45	45
		20.8 kW	50	50	60	50	50	60
		31.2 kW	70	70	80	70	70	80
		41.6 kW	80	80	80	80	80	80
[1] Minimum Circuit Ampacity		**Unit only**	32	34	37	35	36	39
	with Standard Exhaust Fan and [6] Electric Heat	**0 kW**	35	36	39	37	39	42
		10.4 kW	35	36	39	37	39	42
		20.9 kW	48	50	53	48	50	53
		31.2 kW	67	69	73	67	69	73
		41.6 kW	71	73	77	71	73	77
[5] Unit Fuse Block	Unit only		**25K09**	**25K10**	**25K10**	**25K10**	**25K10**	**25K11**
	with Std. Power Exhaust		**25K10**	**25K10**	**25K11**	**25K10**	**25K11**	**25K11**
Disconnect		**0-10.4 kW**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**
		20.8-31.2 kW	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**
		41.6 kW	**84M13**	**84M14**	**84M14**	**84M13**	**84M14**	**84M14**
Terminal Block			**30K75**			**30K75**		
[4] Electric Heat Control Module			**15K92**			**15K92**		

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

1 HACR type breaker or fuse.

2 Refer to local electrical codes to determine wire, fuse and disconnect size requirements.

3 Factory installed circuit breaker not available.

4 Electric Heat Control module only for use with 31.2 kW or more of electric heat.

5 Only for use with electric heat.

6 Nominal electric heat kW based on 400V-3ph-50hz.

ELECTRICAL/ELECTRIC HEAT DATA

			LCC180S2			LCC180H2			LCC180H4		
Voltage - 50hz - 3 phase with neutral			**380/420V**			**380/420V**			**380/420V**		
Compressors (3)	Rated Load Amps (total)		7.4 (22.2)			9 (27)			7.8 (23.4)		
	Locked Rotor Amps (total)		59.6 (178.8)			62 (186)			52 (156)		
Outdoor Fan Motors (4)	Full Load Amps (total)		1.3 (5.2)			1.3 (5.2)			1.3 (5.2)		
	Locked Rotor Amps (total)		2.4 (9.6)			2.4 (9.6)			2.4 (9.6)		
Standard Power Exhaust (2)	Watts (Horsepower)		249 (1/3)			249 (1/3)			249 (1/3)		
	Full Load Amps (total)		1.3 (2.6)			1.3 (2.6)			1.3 (2.6)		
	Locked Rotor Amps (total)		2.4 (4.8)			2.4 (4.8)			2.4 (4.8)		
Indoor Blower Motor	kW (Horsepower)		**2.2 (3)**	**3.7 (5)**	**5.6 (7.5)**	**2.2 (3)**	**3.7 (5)**	**5.6 (7.5)**	**2.2 (3)**	**3.7 (5)**	**5.6 (7.5)**
	Rated Load Amps		5	7.8	11.1	5	7.8	11.1	5	7.8	11.1
	Locked Rotor Amps		27	41	66	27	41	66	27	41	66
[1] **Maximum Overcurrent Protection**		**Unit only**	40	45	50	45	50	50	40	45	50
	with Standard Exhaust Fan and [6] Electric Heat	**0 kW**	40	45	50	50	50	50	45	45	50
		10.4 kW	40	45	50	50	50	50	45	45	50
		20.8 kW	50	60	60	50	60	60	50	60	60
		31.2 kW	70	80	80	70	80	80	70	80	80
		41.6 kW	80	80	90	80	80	80	80	80	90
[2] **Minimum Circuit Ampacity**		**Unit only**	35	38	41	40	43	46	36	39	42
	with Standard Exhaust Fan and [6] Electric Heat	**0 kW**	37	40	43	43	45	49	39	41	45
		10.4 kW	37	40	43	43	45	49	39	41	45
		20.8 kW	50	53	57	50	53	57	50	53	57
		31.2 kW	69	73	77	69	73	77	69	73	77
		41.6 kW	73	77	81	73	77	81	73	77	81
[5] **Unit Fuse Block**	Unit only		**25K10**	**25K11**	**25K13**	**25K11**	**25K13**	**25K13**	**25K10**	**25K11**	**25K13**
	with Std. Power Exhaust		**25K10**	**25K11**	**25K13**	**25K13**	**25K13**	**25K13**	**25K11**	**25K11**	**25K13**
Disconnect		**0-31.2 kW**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**
		31.2 kW	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**
		41.6 kW	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**
Terminal Block		**10.4-31.2 kW**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**
		41.6 kW	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**
[4] **Electric Heat Control Module**			**15K92**			**15K92**			**15K92**		

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

1 HACR type breaker or fuse.

2 Refer to local electrical codes to determine wire, fuse and disconnect size requirements.

3 Factory installed circuit breaker not available.

4 Electric Heat Control module only for use with 40 kW or more of electric heat.

5 Only for use with electric heat.

6 Nominal electric heat kW based on 400V-3ph-50hz.

ELECTRICAL/ELECTRIC HEAT DATA

			LCC210S2			LCC210H2			LCC210H4		
Voltage - 50hz - 3 phase with neutral			**380/420V**			**380/420V**			**380/420V**		
Compressors (4)	Rated Load Amps (total)		7.1 (28.4)			7.1 (28.4)			7.9 (31.6)		
	Locked Rotor Amps (total)		50 (200)			50 (200)			46 (184)		
Outdoor Fan Motors (4)	Full Load Amps (total)		1.3 (5.2)			1.3 (5.2)			1.3 (5.2)		
	Locked Rotor Amps (total)		2.4 (9.6)			2.4 (9.6)			2.4 (9.6)		
Standard Power Exhaust (2)	Watts (Horsepower)		249 (1/3)			249 (1/3)			249 (1/3)		
	Full Load Amps (total)		1.3 (2.6)			1.3 (2.6)			1.3 (2.6)		
	Locked Rotor Amps (total)		2.4 (4.8)			2.4 (4.8)			2.4 (4.8)		
Indoor Blower Motor	kW (Horsepower)		**2.2 (3)**	**3.7 (5)**	**5.6 (7.5)**	**2.2 (3)**	**3.7 (5)**	**5.6 (7.5)**	**2.2 (3)**	**3.7 (5)**	**5.6 (7.5)**
	Rated Load Amps		5	7.8	11.1	5	7.8	11.1	5	7.8	11.1
	Locked Rotor Amps		27	41	66	27	41	66	27	41	66
[2] Maximum Overcurrent Protection		**Unit only**	45	50	50	45	50	50	50	50	60
	with Standard Exhaust Fan and [6] Electric Heat	**0 kW**	50	50	60	50	50	60	50	50	60
		10.4 kW	50	50	60	50	50	60	50	50	60
		20.8 kW	50	60	60	50	60	60	50	60	60
		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
[1] Minimum Circuit Ampacity		**Unit only**	41	44	47	41	44	47	44	47	50
	with Standard Exhaust Fan and [6] Electric Heat	**0 kW**	43	46	50	43	46	50	47	49	53
		10.4 kW	43	46	50	43	46	50	47	50	53
		20.8 kW	50	53	57	50	53	57	50	53	57
		31.2 kW	69	73	77	69	73	77	69	73	77
		41.6 kW	73	77	81	73	77	81	73	77	81
		62.5 kW	105	108	112	105	108	112	105	108	112
[5] Unit Fuse Block	Unit only		**25K11**	**25K13**	**25K13**	**25K11**	**25K13**	**25K13**	**25K13**	**25K13**	**25K14**
	with Std. Power Exhaust		**25K13**	**25K13**	**25K14**	**25K13**	**25K13**	**25K14**	**25K13**	**25K13**	**25K14**
Disconnect		**0-20.8 kW**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**
		31.2 kW	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**
		41.6 kW	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**
		62.5 kW	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**
Terminal Block		**10.4-31.2 kW**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**
		41.6 kW	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**
		62.5 kW	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**
[4] Electric Heat Control Module			**15K92**			**15K92**			**15K92**		

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

1 HACR type breaker or fuse.

2 Refer to local electrical codes manual to determine wire, fuse and disconnect size requirements.

3 Factory installed circuit breaker not available.

4 Electric Heat Control module only for use with 31.2 kW or more of electric heat.

5 Only for use with electric heat.

6 Nominal electric heat kW based on 400V-3ph-50hz.

ELECTRICAL/ELECTRIC HEAT DATA

			LCC240S2			LCA240H2			LCA240H4		
Voltage - 50 hz - 3 phase with neutral			**460V**			**460V**			**460V**		
Compressors (4)	Rated Load Amps (total)		7.4 (29.6)			9 (36)			7.8 (31.2)		
	Locked Rotor Amps (total)		59.6 (238.4)			62 (248)			52 (208)		
Outdoor Fan Motors (4)	Full Load Amps (total)		1.3 (5.2)			1.3 (5.2)			1.3 (5.2)		
	Locked Rotor Amps (total)		2.4 (9.6)			2.4 (9.6)			2.4 (9.6)		
Standard Power Exhaust (2)	Watts (Horsepower)		249 (1/3)			249 (1/3)			249 (1/3)		
	Full Load Amps (total)		1.3 (2.6)			1.3 (2.6)			1.3 (2.6)		
	Locked Rotor Amps (total)		2.4 (4.8)			2.4 (4.8)			2.4 (4.8)		
Indoor Blower Motor	kW (Horsepower)		**3.7 (5)**	**5.6 (7.5)**	**7.5 (10)**	**3.7 (5)**	**5.6 (7.5)**	**7.5 (10)**	**3.7 (5)**	**5.6 (7.5)**	**7.5 (10)**
	Rated Load Amps		7.8	11.1	15.2	7.8	11.1	15.2	7.8	11.1	15.2
	Locked Rotor Amps		41	66	84	41	66	84	41	66	84
[2] Maximum Overcurrent Protection		**Unit only**	50	50	60	60	60	70	50	60	70
	with Standard Exhaust Fan and [6] Electric Heat	**0 kW**	50	60	70	60	60	70	50	60	70
		10.4 kW	50	60	70	60	60	70	50	60	70
		20.8 kW	60	60	70	60	60	70	60	60	70
		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
[1] Minimum Circuit Ampacity		**Unit only**	45	48	52	52	55	59	47	50	54
	with Standard Exhaust Fan and [6] Electric Heat	**0 kW**	48	51	55	54	58	62	49	53	57
		10.4 kW	48	51	55	54	58	62	49	53	57
		20.8 kW	53	57	62	54	58	62	53	57	62
		31.2 kW	73	77	82	73	77	82	73	77	82
		41.6 kW	77	81	86	77	81	86	77	81	86
		62.5 kW	108	112	117	108	112	117	108	112	117
[5] Unit Fuse Block	Unit only		**25K13**	**25K13**	**25K14**	**25K14**	**25K14**	**35K03**	**25K13**	**25K14**	**35K03**
	with Std. Power Exhaust		**25K13**	**25K14**	**25K14**	**25K14**	**25K14**	**35K03**	**25K13**	**25K14**	**35K03**
Disconnect		**0-20.8 kW**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**
		31.2 kW	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**
		41.6 kW	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**
		62.5 kW	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**
Terminal Block		**0-31.2 kW**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**
		41.6 kW	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**
		62.5 kW	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**
[4] Electric Heat Control Module			**15K92**			**15K92**			**15K92**		

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

1 HACR type breaker or fuse.

2 Refer to local electrical codes to determine wire, fuse and disconnect size requirements.

3 Factory installed circuit breaker not available.

4 Electric Heat Control module only for use with 31.2 kW or more of electric heat.

5 Only for use with electric heat.

6 Nominal electric heat kW based on 400V-3ph-50hz.

ELECTRICAL/ELECTRIC HEAT DATA

			LCC300S2			LCC300S4		
Voltage - 50hz - 3 phase with neutral			**460V**			**460V**		
Compressors (4)	Rated Load Amps (total)		9 (36)			10.6 (42.4)		
	Locked Rotor Amps (total)		75 (300)			75 (300)		
Outdoor Fan Motors (4)	Full Load Amps (total)		1.5 (6)			1.5 (6)		
	Locked Rotor Amps (total)		3 (12)			3 (12)		
Standard Power Exhaust (2)	Watts (Horsepower)		249 (1/3)			249 (1/3)		
	Full Load Amps (total)		1.3 (2.6)			1.3 (2.6)		
	Locked Rotor Amps (total)		2.4 (4.8)			2.4 (4.8)		
Indoor Blower Motor	kW (Horsepower)		**3.7 (5)**	**5.6 (7.5)**	**7.5 (10)**	**3.7 (5)**	**5.6 (7.5)**	**7.5 (10)**
	Rated Load Amps		7.8	11.1	15.2	7.8	11.1	15.2
	Locked Rotor Amps		41	66	84	41	66	84
[1] Maximum Overcurrent Protection	**Unit only**		60	60	70	60	70	80
	with Standard Exhaust Fan and [6] Electric Heat	**0 kW**	60	60	70	70	70	80
		10.4 kW	60	60	70	70	70	80
		20.8 kW	60	60	70	70	70	80
		31.2 kW	80	80	90	80	80	90
		41.6 kW	80	90	90	80	90	90
		62.5 kW	110	125	125	110	125	125
[2] Minimum Circuit Ampacity	**Unit only**		53	56	60	59	63	67
	with Standard Exhaust Fan and [6] Electric Heat	**0 kW**	55	58	63	62	65	69
		10.4 kW	55	58	63	62	65	69
		20.8 kW	55	58	63	62	65	69
		31.2 kW	73	77	82	73	77	82
		41.6 kW	77	81	86	77	81	86
		62.5 kW	108	112	117	108	112	117
[5] Unit Fuse Block	Unit only		**25K14**	**25K14**	**35K03**	**25K14**	**35K03**	**35K04**
	with Std. Power Exhaust		**25K14**	**25K14**	**35K03**	**35K03**	**35K03**	**35K04**
Disconnect	**0-20.8 kW**		**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**
	31.2 kW		**84M13**	**84M13**	**84M13**	**84M13**	**84M13**	**84M13**
	41.6 kW		**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**
	62.5 kW		**84M14**	**84M14**	**84M14**	**84M14**	**84M14**	**84M14**
Terminal Block	**10.4-20.8 kW**		**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**
	31.2 kW		**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**
	41.6 kW		**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**
	62.5 kW		**30K75**	**30K75**	**30K75**	**30K75**	**30K75**	**30K75**
[4] Electric Heat Control Module			**15K92**			**15K92**		

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

1 HACR type breaker or fuse.

2 Refer to local electrical codes to determine wire, fuse and disconnect size requirements.

3 Factory installed circuit breaker not available.

4 Electric Heat Control module only for use with 40 kW or more of electric heat.

5 Only for use with electric heat.

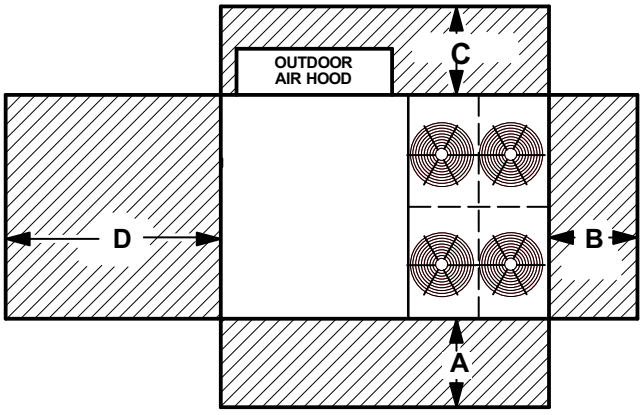
6 Nominal electric heat kW based on 400V-3ph-50hz.

OUTDOOR SOUND DATA

Unit Model No.	Octave Band Sound Power Levels dBA, re 10^{-12} Watts Center Frequency - HZ							[1] Sound Rating Number (dB)
	125	250	500	1000	2000	4000	8000	
156, 180	80	83	87	88	84	80	71	93
210, 240	77	83	87	87	84	80	71	92
300	80	84	87	87	83	77	64	93

NOTE - The octave sound power data shown does not include tonal correction.
1 Tested according to ARI Standard 270-95 test conditions and ANSI Standard S1.32-1981.

UNIT CLEARANCES - MM (INCHES)



[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.

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-

[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

Sensor For Digital Non-Programmable Thermostats Above

Remote wall mounted temperature sensor C0SNZN00AE1-

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

One-stage heating / cooling conventional systems C0STAT12AE1L

Sensor For Digital Non-Programmable Thermostats Above

Outdoor temperature sensor C0SNSR04AE1-

Accessories For Digital Non-Programmable Thermostats Above

Optional wall mounting plate C0MISC17AE1-

WEIGHT DATA

Model Number	Net		Shipping	
	kg	lbs.	kg	lbs.
156H/180 Base Unit	1045	2300	1135	2500
156H/180 Max. Unit	1134	2500	1220	2690
210 Base Unit	1100	2430	1188	2620
210 Max. Unit	1216	2680	1302	2870
240/300S Base Unit	1125	2480	1216	2680
240/300S Max. Unit	1216	2680	1302	2870

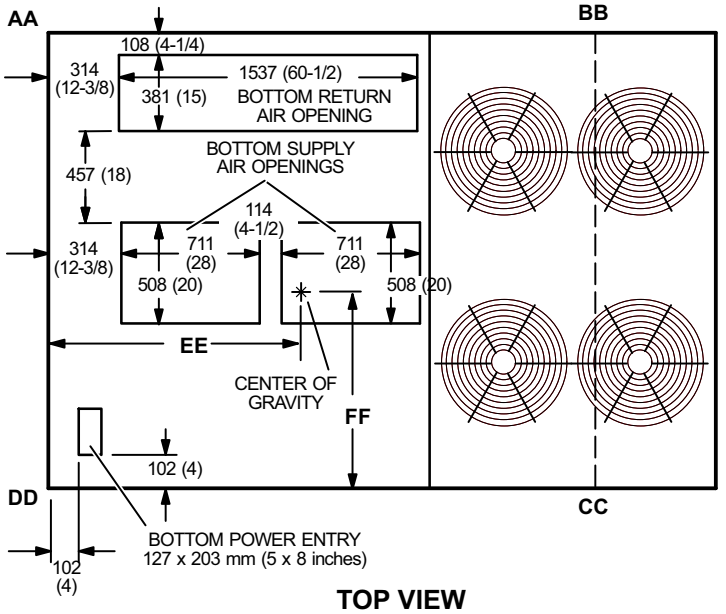
OPTIONS / ACCESSORIES

		Weight	
		kg	lbs.
CEILING DIFFUSERS			
Step-Down	RTD11-185	178	392
	RTD11-275	183	403
Flush	FD11-185	135	289
	FD11-275	165	363
Transitions	LASRT18	36	80
	LASRT21/24	34	75
ECONOMIZER / OUTDOOR AIR / EXHAUST			
Economizer	LAREMD18/24	39	86
Barometric Relief			
Down-Flow Barometric Relief Dampers	LAGED18/24	14	30
Horizontal Barometric Relief Dampers	LAGEDH18/24	9	20
Outdoor Air Dampers			
Damper Section (down-flow) - Automatic	LAOADM18/24	24	52
Damper Section (down-flow) - Manual	LAOAD18/24	22	49
Outdoor Air Hood (down-flow)	C1HOOD10C	29	65
Power Exhaust	C1PWRE20C	28	62
ELECTRIC HEAT			
10.4 to 20.8 kW		27	59
31.2 to 41.6 kW		35	76
62.5 kW		38	84
PACKAGING			
LTL Packaging (less than truck load)		127	280
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			
660 mm (26 in.) height	LARMFH18/24-26	191	420
940 mm (37 in.) height	LARMFH18/24-37	263	580
762 mm (30 in.) height	LARMFH30/36-30	202	445
1041 mm (41 in.) height	LARMFH30/36-41	329	725
ROOF CURBS - CLIPLOCK 1000			
Down-Flow			
356 mm (14 in.) height	LARMF18/30S-14	75	165
457 mm (18 in.) height	LARMF18/30S-18	88	193
610 mm (24 in.) height	LARMF18/30S-24	106	234
Horizontal			
660 mm (26 in.) height	LARMFH18/24S-26	207	457
940 mm (37 in.) height	LARMFH18/24S-37	223	491
762 mm (30 in.) height	LARMFH30/36S-30	207	456
1041 mm (41 in.) height	LARMFH30/36S-41	218	480

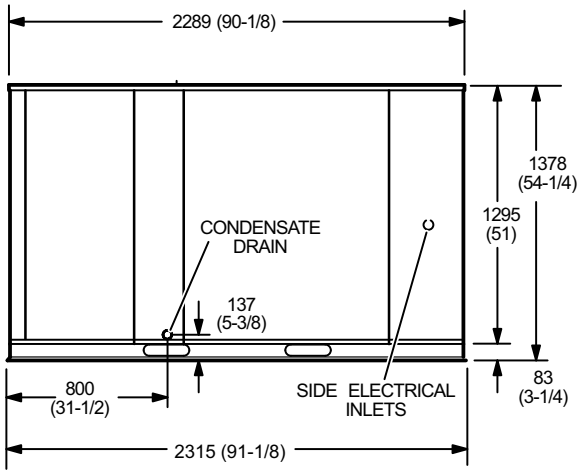
Base Unit - The unit with low fire heat exchanger NO OPTIONS.
Max. Unit - The unit with ALL OPTIONS Installed. (High Input Heat Exchanger, Economizer, Power Exhaust Fans, Controls)

DIMENSIONS - MM (INCHES)

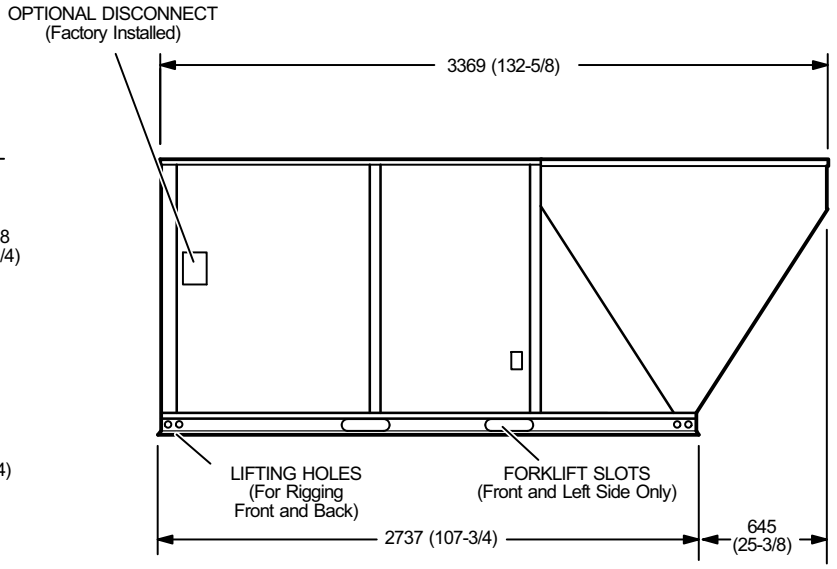
Model Number	CORNER WEIGHTS								CENTER OF GRAVITY			
	AA		BB		CC		DD		EE		FF	
	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	mm	inch	mm	inch
156H/180 Base Unit	239	527	207	456	277	611	320	706	1270	50	978	38-1/2
156H/180 Max. Unit	260	574	262	577	307	676	305	673	1372	54	1054	41-1/2
210 Base Unit	232	512	220	486	317	698	333	734	1334	52-1/2	940	37
210 Max. Unit	283	625	269	594	323	712	340	749	1334	52-1/2	1041	41
240/300S Base Unit	231	510	237	522	332	732	325	716	1384	54-1/2	953	37-1/2
240/300S Max. Unit	276	612	269	592	329	726	340	750	1346	53	1029	40-1/2



TOP VIEW



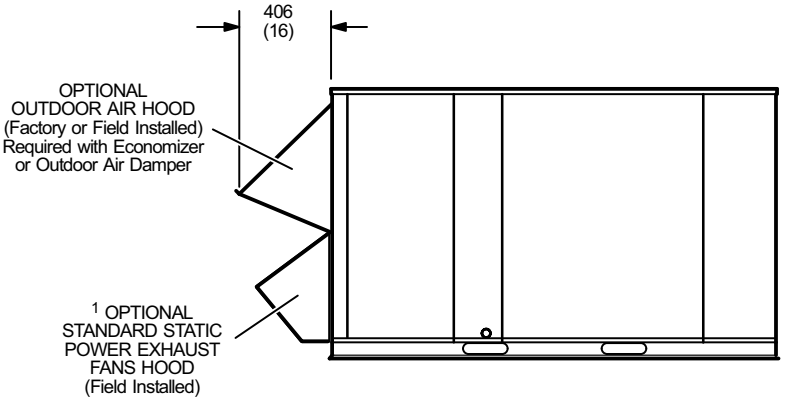
END VIEW



SIDE VIEW

ACCESSORY DIMENSIONS - MM (INCHES)

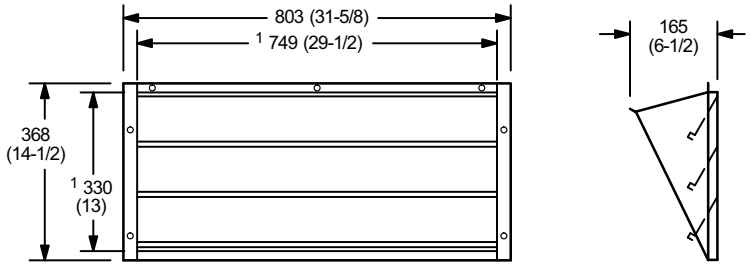
OPTIONAL OUTDOOR AIR HOOD DETAIL WITH STANDARD STATIC POWER EXHAUST FANS



[1] Field Installed in Return Air Duct for Horizontal Applications.

HORIZONTAL BAROMETRIC RELIEF DAMPERS

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

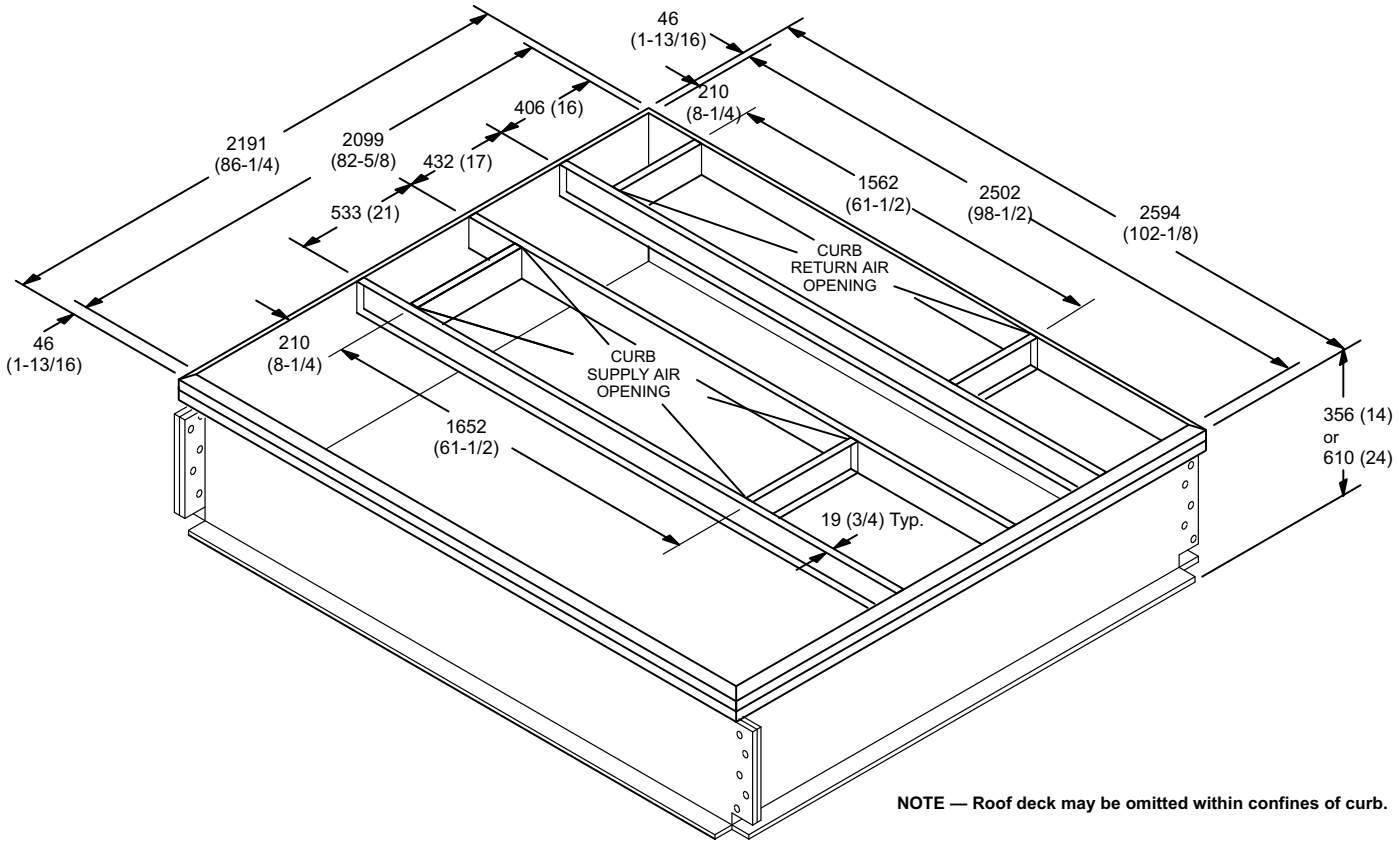


FRONT VIEW **SIDE VIEW**

NOTE - Two furnished per order no.
[1] NOTE - Opening size required in return air duct.

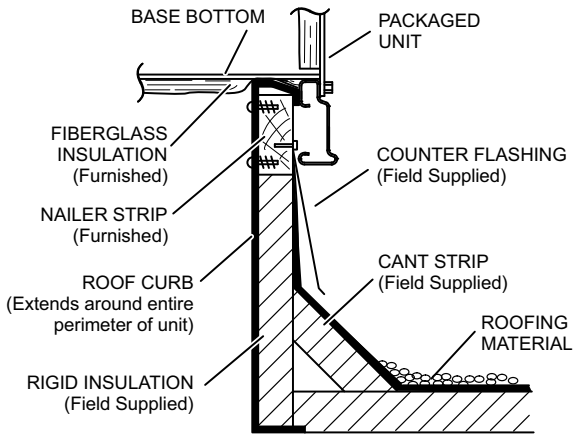
ACCESSORY DIMENSIONS - MM (INCHES)

STANDARD ROOF CURBS - DOUBLE DUCT OPENING

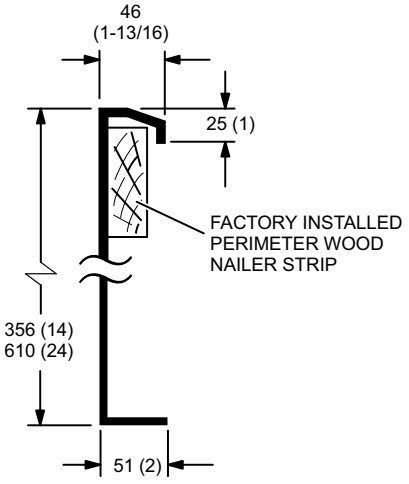


NOTE — Roof deck may be omitted within confines of curb.

TYPICAL FLASHING DETAIL FOR ROOF CURB

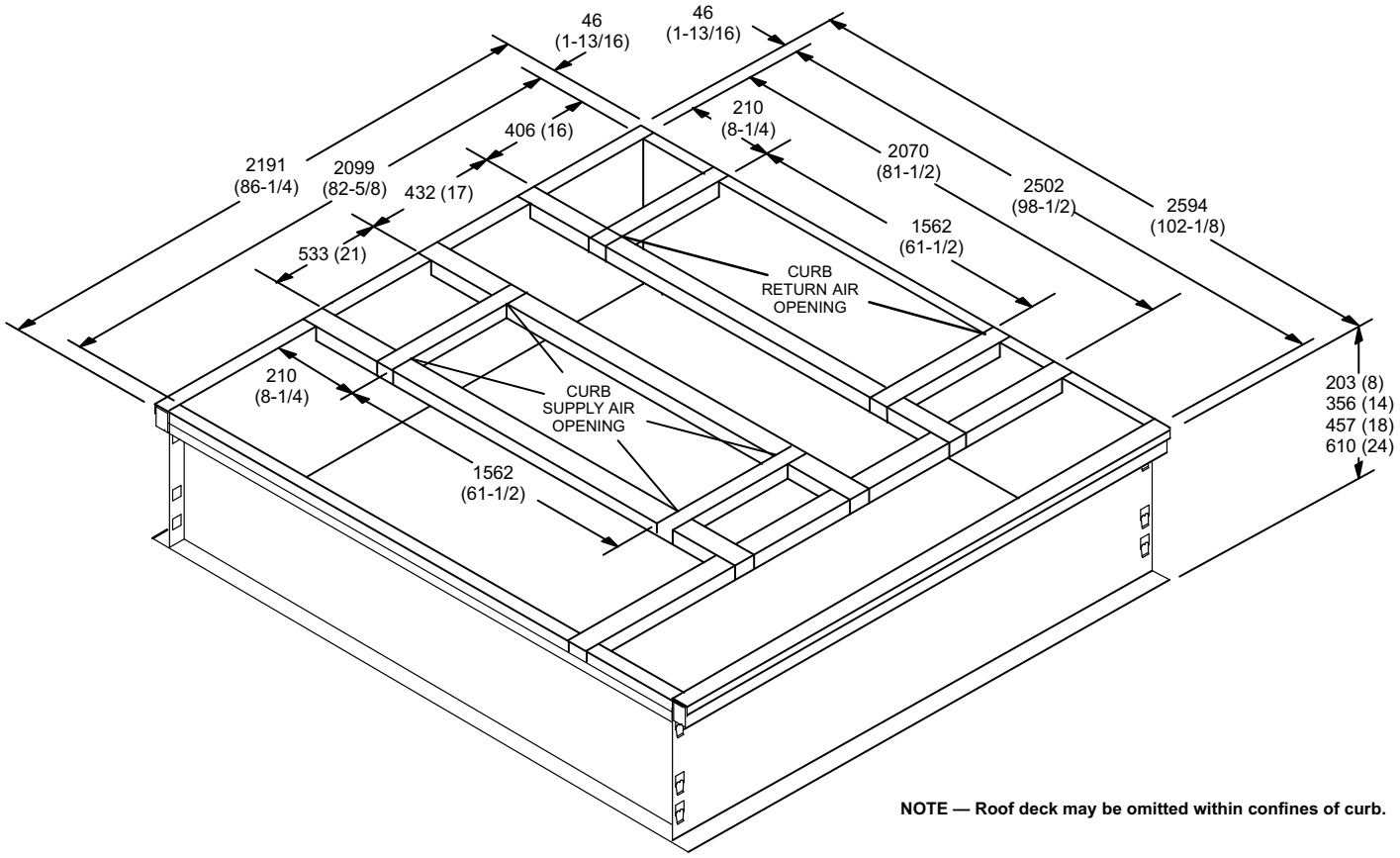


DETAIL ROOF CURB



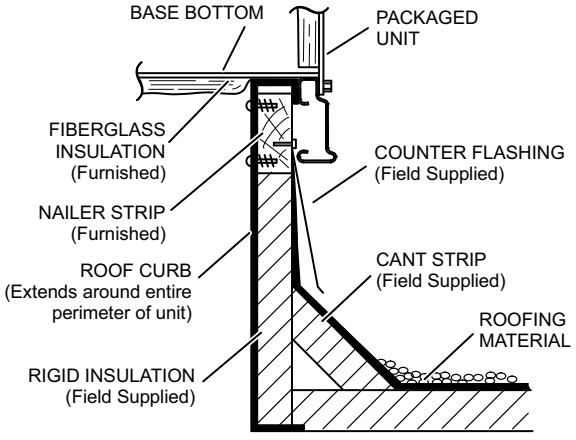
ACCESSORY DIMENSIONS - MM (INCHES)

CLIPLOCK 1000 ROOF CURBS - DOUBLE DUCT OPENING

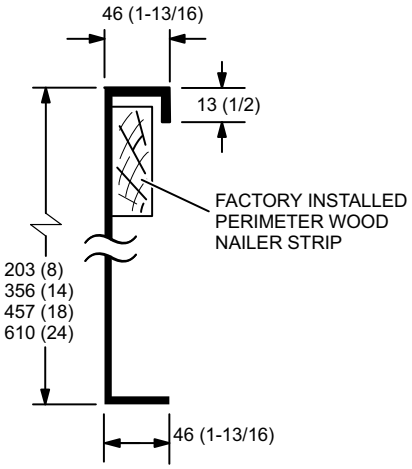


NOTE — Roof deck may be omitted within confines of curb.

TYPICAL FLASHING DETAIL FOR ROOF CURB

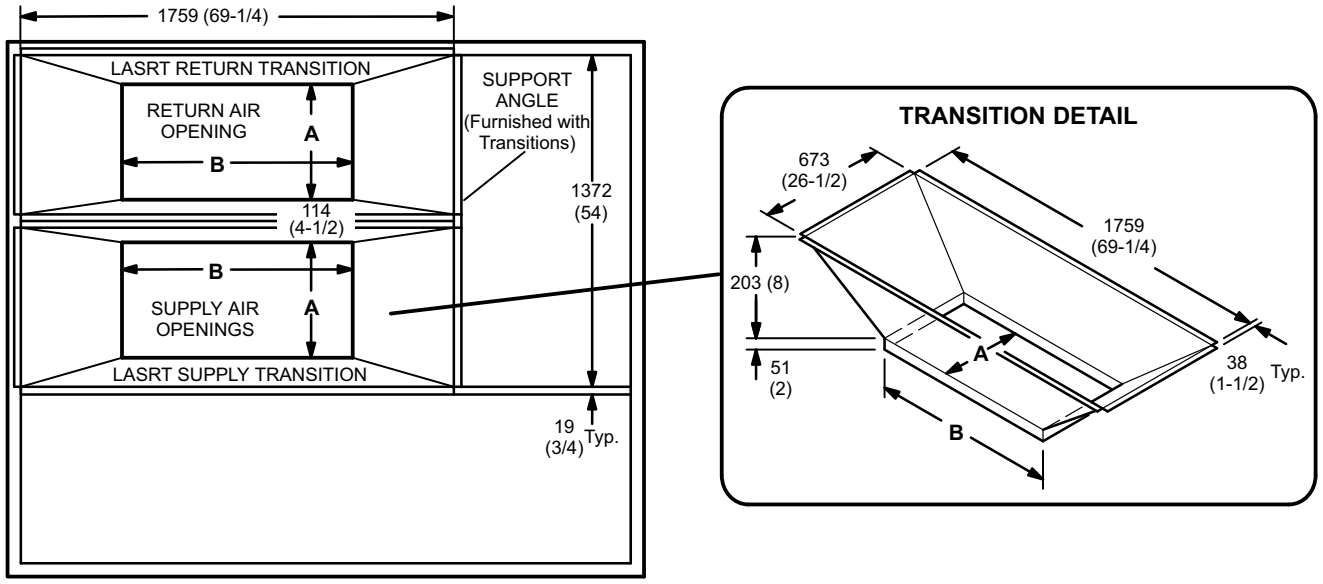


DETAIL ROOF CURB



ACCESSORY DIMENSIONS - MM (INCHES)

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

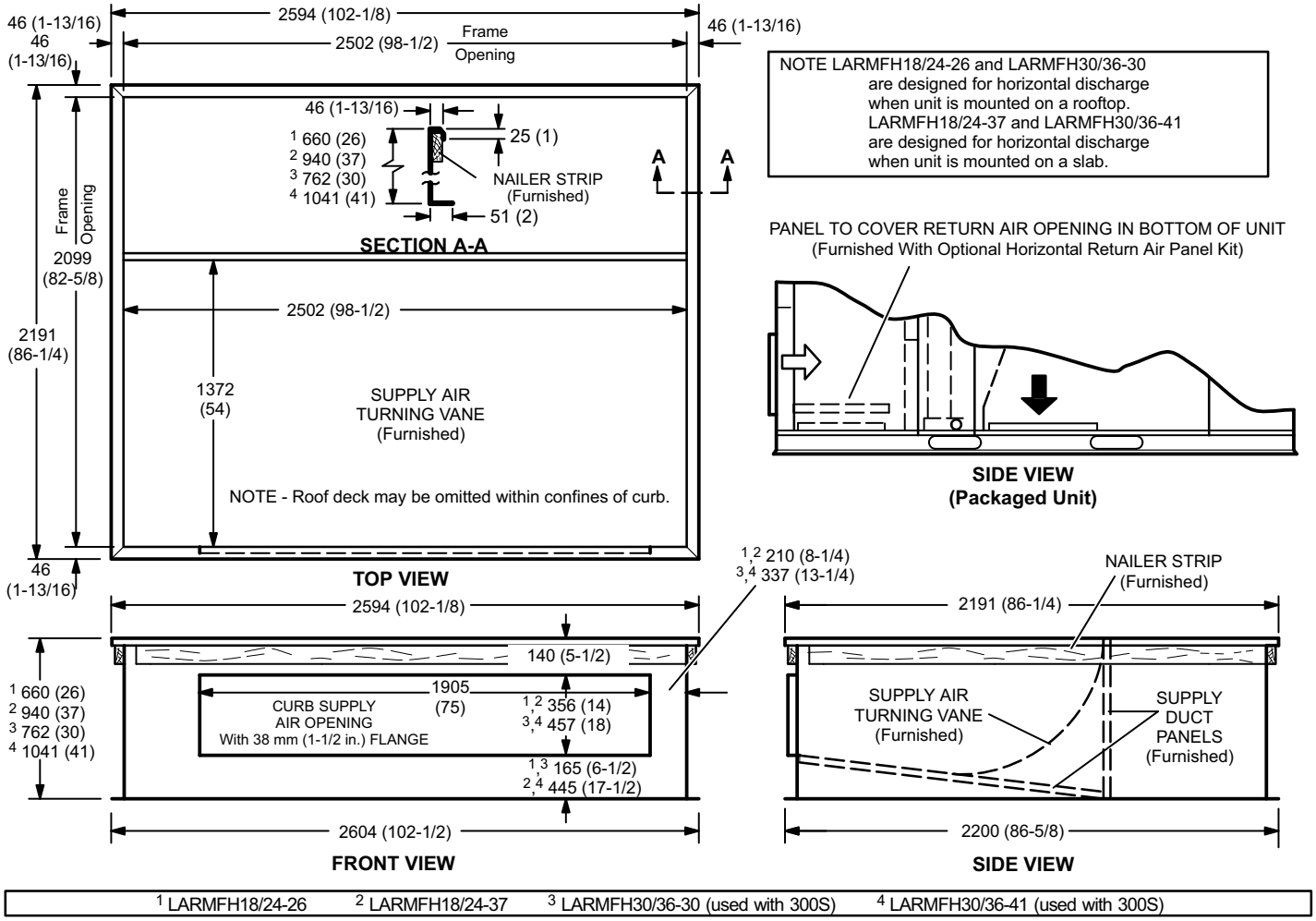


TOP VIEW

TRANSITION OPENING SIZES				
Model Number	A		B	
	mm	inch	mm	inch
LASRT18	457	18	914	36
LASRT21/24	610	24	1219	48

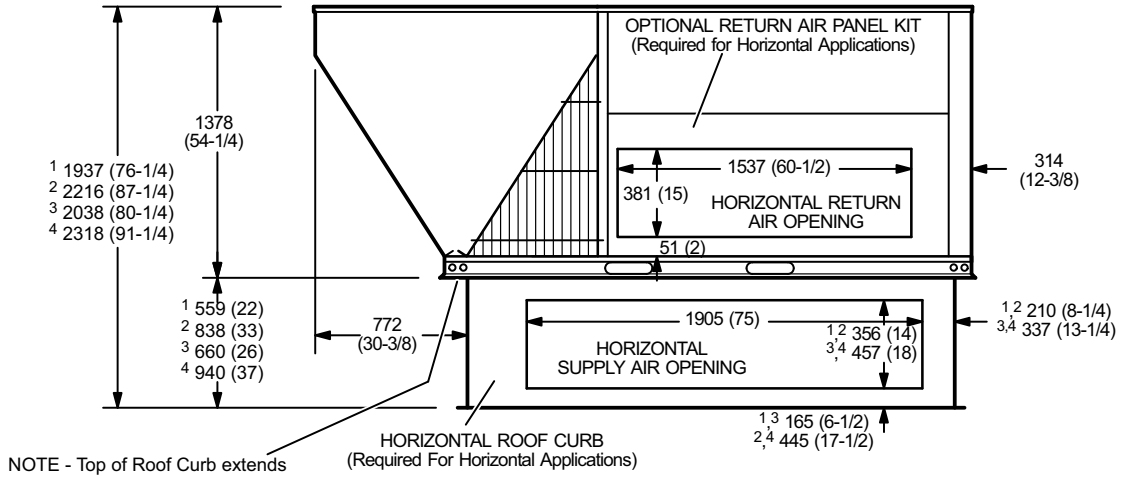
ACCESSORY DIMENSIONS - MM (INCHES)

HORIZONTAL ROOF CURBS - Requires Optional Horizontal Return Air Panel Kit



[1] LARMFH18/24-26 [2] LARMFH18/24-37 [3] LARMFH30/36-30 (used with 300S) [4] LARMFH30/36-41 (used with 300S)

HORIZONTAL SUPPLY AND RETURN AIR OPENINGS WITH HORIZONTAL ROOF CURB

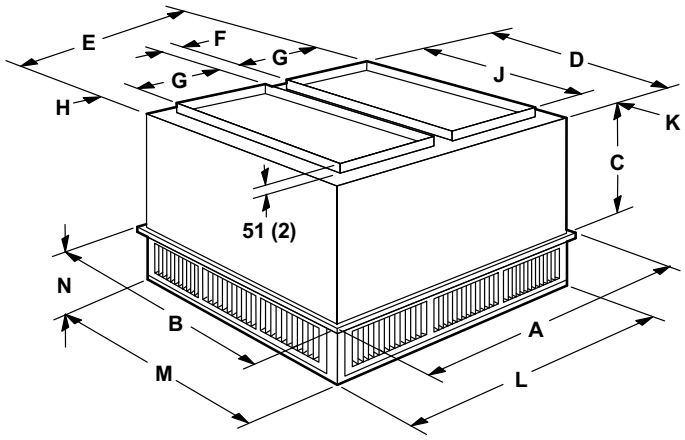


[1] LARMFH18/24-26
[2] LARMFH18/24-37
[3] LARMFH30/36-30 (used with 300S Models Only)
[4] LARMFH30/36-41 (used with 300S Models Only)

ACCESSORY DIMENSIONS - MM (INCHES)

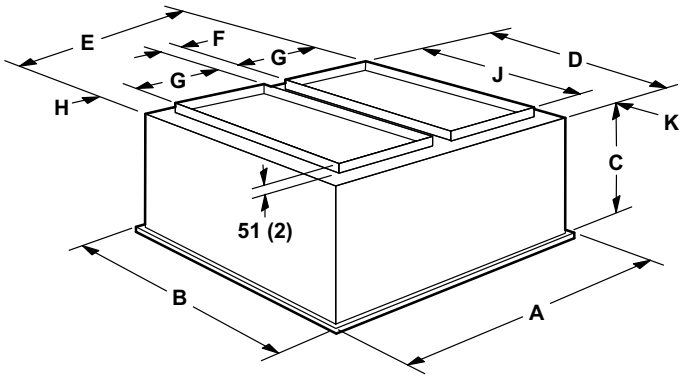
COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER



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

FLUSH CEILING DIFFUSER



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

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