



**COMMERCIAL
PRODUCT SPECIFICATIONS**

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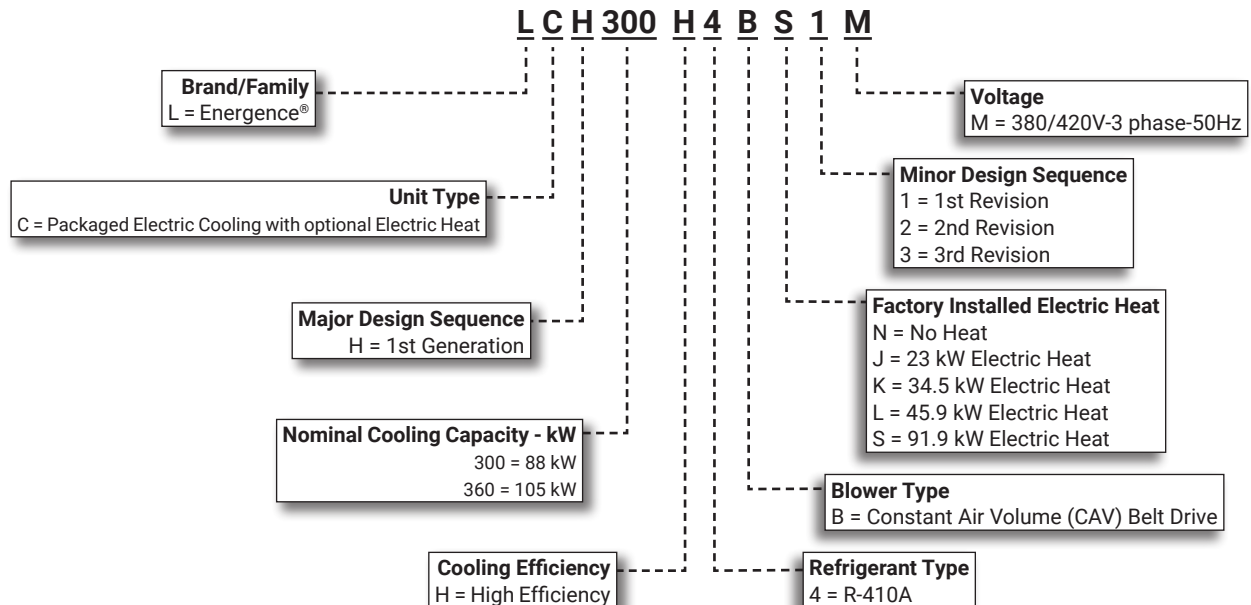


SMARTWIRE™ SYSTEM



88 to 105 kW (25 to 30 Tons)
Net Cooling Capacity - 74.4 to 88.5 kW (254 000 to 302 000 Btuh)
Optional Electric Heat - 23 to 91.9 kW

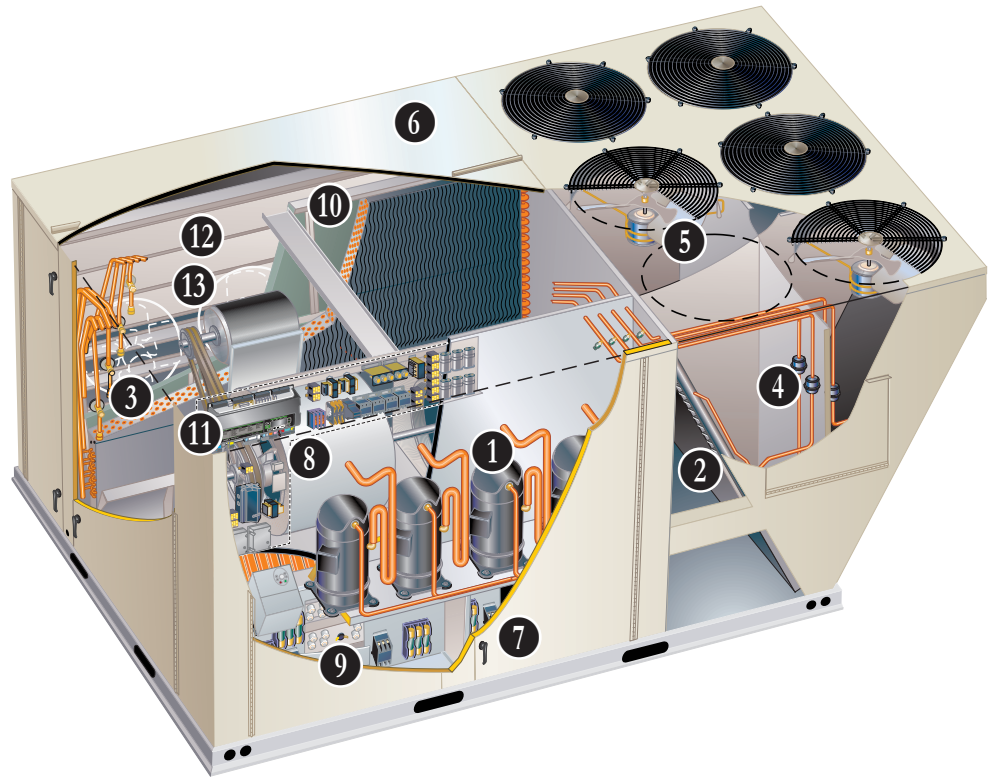
MODEL NUMBER IDENTIFICATION



FEATURE HIGHLIGHTS

Lennox' Energence® packaged rooftop unit product line was created to save energy with intelligence by offering some of the highest energy efficiency ratings available with a powerful, easy to use unit controller. This makes Energence rooftop units perfect for business owners looking for an Heating/Ventilation/Air Conditioning (HVAC) product with the lowest total cost of ownership.

1. Scroll Compressors
2. Condenser Coil
3. Thermal Expansion Valves
4. Filters/Driers
5. Outdoor Coil Fan Motors
6. Heavy-Gauge Steel Cabinet
7. Hinged Access Panels
8. Blower
9. Electric Heat (option)
10. Air Filters
11. Unit Controller
12. Economizer (option)
13. Downflow Barometric Relief Dampers (option)



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PERFORMANCE/QUALITY

- Components bonded for grounding to meet safety standards for servicing required by Underwriters Laboratories (UL) and the International Electrotechnical Commission (IEC)
- Cooling performance is rated at test conditions included in Air-Conditioning, Heating and Refrigeration (AHRI) Standard 340/360-2007 while operating at rated voltage and air volumes. International Organization for Standardization (ISO) 9001
- Registered Manufacturing Quality System

FEATURES AND BENEFITS

COOLING SYSTEM

- Designed to maximize sensible and latent cooling performance at design conditions
- System can operate from -18°C to 52°C without any additional controls

R-410A Refrigerant

- Non-chlorine
- Ozone friendly
- Unit pre-charged with refrigerant; see Specification table

1 Scroll Compressors

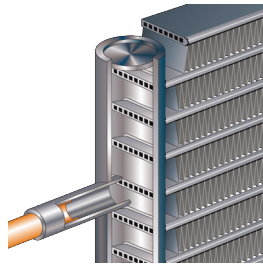
- Scroll compressors on all models for high performance, reliability and quiet operation
- Resiliently mounted on rubber grommets for quiet operation

Compressor Crankcase Heaters

- Protects against refrigerant migration that can occur during low ambient operation or during extended off cycles

2 Condenser Coil - Lennox' Environ™ Coil System

- Lightweight, all aluminum brazed fin construction
- Constructed of three components
 - A flat extrusion tube
 - Fins in-between the flat extrusion tube
 - Two refrigerant manifolds



Environ™ Coil System Features:

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

Evaporator Coil

- Copper tube construction
- Enhanced rippled-edge aluminum fins
- Flared shoulder tubing connections
- Silver-soldered construction
- Factory leak tested
- Cross row circuiting with rifled tubing
- Low fin per inch count minimizes air pressure drop

NOTE - All models have face-split evaporator coils designed to keep condensate water off of an inactive part of the coil so the condensate will not re-enter the air stream.

3 Thermal Expansion Valves

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

4 Filter/Driers

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

High Pressure Switches

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

Low Pressure Switches

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

Condensate Drain Pan

- Plastic, sloped drain pan
- Side drain connections

NOTE - Stainless steel drain pan available as a factory installed option.

Freezestats

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

5 Outdoor Coil Fan Motors

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

Outdoor Coil Fans

- Polyvinyl chloride (PVC) coated fan guard furnished

FEATURES AND BENEFITS

COOLING SYSTEM (continued)

Required Selections

Cooling Capacity

- Specify nominal cooling capacity

Options/Accessories

Factory Installed

Discharge Air Temperature Sensor

- Sensor sends information to the unit controller to cycle up to 2 stages of heating or 4 stages of cooling to maintain the discharge air setpoints for heating or cooling
- Optional for units with single zone or bypass zoning control

NOTE - Sensor is shipped with the unit for remote field installation in the supply duct.

Factory or Field Installed

Condensate Drain Trap

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

Drain Pan Overflow Switch

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

Stainless Steel Drain Pan

- Non-corrosive drain pan

CABINET

6 Construction

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

Airflow Choice

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

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

Power Entry

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

Exterior Panels

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

Insulation

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

7 Hinged Access Panels

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

FEATURES AND BENEFITS

8 BLOWER

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

Motor

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

Supply Air Blower

- Forward curved blades
- Double inlet
- Adjustable pulley (allows speed change)
- Blower assembly slides out of unit for servicing
- Grease fittings furnished

Required Selections

- Specify motor output and drive kit number when base unit is ordered, see Drive Kit Specifications tables
- Order one drive kit, see Drive Kit Specifications Table

Options/Accessories

Factory Installed

Blower Belt Auto-Tensioner

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

Field Installed

Supply Static Limit Switch

- Field installed manual reset switch for supply static high pressure limit
- Prevents exceeding pressure limit in supply air duct. Optional Mounting Kit includes tubing and adaptors

ELECTRICAL

NOTE - All units include terminal block and fuse block in power entry junction box for single power entry application.

SmartWire™ System

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

Required Selections

Voltage Choice

- Specify when ordering base unit

Options/Accessories

Factory or Field Installed

9 Electric Heat

- Electric heat is CE marked
- Helix wound nichrome elements
- Individual element limit controls

- Wiring harness
- Unit fuse block
- See Options/Accessories tables for ordering information

Options/Accessories

Factory Installed

Corrosion Protection

- A completely flexible immersed coating with an electrodeposited dry film process (AST ElectroFin E-Coat); meets Mil Spec MIL-P-53084, ASTM B117 Standard Method Salt Spray Testing

Indoor Corrosion Protection:

- Coated coil
- Painted blower housing
- Painted indoor base

Outdoor Corrosion Protection:

- Coated coil
- Painted outdoor base

Combination Coil/Hail Guards

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

Grille Guards

- Protects the space between outdoor coils and main cabinet

Horizontal Return Air Panel Kit

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

INDOOR AIR QUALITY

10 Air Filters

- Disposable 51 mm filters furnished as standard

Options/Accessories

Factory or Field Installed

Healthy Climate® High Efficiency Air Filters

- Disposable MERV 8 or MERV 13 (Minimum Efficiency Reporting Value based on ASHRAE 52.2) efficiency 51 mm pleated filters

Replacement Filter Media Kit With Frame

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

Field Installed

Indoor Air Quality (CO₂) Sensors

- Monitors CO₂ levels, reports to the Prodigy® Unit Controller, which adjusts economizer dampers as needed

CONTROL SYSTEM

PRODIGY UNIT CONTROLLER



11 The Prodigy® unit controller is a microprocessor-based controller that provides flexible control of all unit functions

Features

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

Built-In Functions Include

- Adjustable Blower On/Off Delay
- Built-in Control Parameter Defaults
- Compressor Time-Off Delay
- DDC Compatible
- Dirty Filter Switch Input
- Discharge Air Temperature Control
- Display/Sensor Readout
- Economizer Control Options (See Economizer / Outdoor Air / Exhaust Options)
- Fresh Air Tempering
- Over 100 diagnostic and status messages in English
- Exhaust Fan Control Modes for fresh air damper position
- Permanent Diagnostic Code Storage
- Field Adjustable Control Parameters (Over 200 settings)
- Indoor Air Quality Input (Demand Control Ventilation)
- Low Ambient Controls - Cooling operation down to -18°C
- Gas Valve Time Delay Between First and Second Stage
- Minimum Compressor Run Time
- Network Capable (Can be daisy chained to other units or controls)

- Night Setback Mode
- Return Air Temperature Limit Control
- Safety Switch Input - Allows Controller to respond to a external safety switch trip.
- Service Relay Output
- Smoke Alarm Mode - Four choices (unit off, positive pressure, negative pressure, purge)
- Up to 2 heat/2 cool (standard Prodigy® unit controller thermostat input)
- Up to 3 cool with additional relay
- Up to 4 cool with room sensor or network operation
- "Strike Three" Protection
- Gas Reheat Control - Simultaneous heating and cooling operation for controlling humidity for process air applications such as supermarkets
- On Demand Dehumidification - Monitors and controls condenser hot gas reheat operation with Humiditrol® option
- Thermostat Bounce Delay
- Warm Up Mode Delay
- LED Indicators
- PC Interface - Connect to the Prodigy® unit controller from a PC with the Lennox Unit Controller Software
- Room Sensor Operation - Controls temperature

Controls Options

Factory or Field Installed

Fresh Air Tempering

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

Smoke Detector

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

Interoperability via BACnet® or LonTalk® Protocols

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

12 ECONOMIZER

- Economizer operation is set and controlled by the Prodigy® Unit Controller
- Simple plug-in connections from economizer to unit controller for easy installation

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

Factory or Field Installed

High Performance

- Low leakage dampers are Air Movement and Control Association International (AMCA) Class 1A Certified - Maximum 3 CFM per sq. ft. leakage at 1 in. w.g.
- Gear-driven action
- High torque 24-volt fully-modulating spring return damper motor
- Return air and outdoor air dampers
- Plug-in connections to unit
- Stainless steel bearings
- Enhanced neoprene blade edge seals
- Flexible stainless steel jamb seals

NOTE - Refer to Installation Instructions for complete setup information.

Differential Sensible Control

- Factory setting
- Uses outdoor air and return air sensors that are furnished with the unit
- The Prodigy® Unit Controller compares outdoor air and return air
- When the outdoor air is below the configured setpoint and cooler than return air, the controller activates the economizer

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

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

NOTE - The Free Cooling default setting for outdoor air temperature sensor is 13°C.

Global Control

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

Factory or Field Installed

Single Enthalpy Temperature Control

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

Differential Enthalpy Control

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

EXHAUST

Factory or Field Installed

13 Downflow Barometric Relief Dampers

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

Standard Static Power Exhaust Fans

- Three, 0.25 kW motors
- 508 mm propeller-type fans
- Five blades
- Total power input of 1125 W and a total air volume of 6040 L/s at 0 Pa.
- Motor is inherently protected
- Totally enclosed
- Installs internal to unit for downflow 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 based on air damper position (adjustable)
- Motor inherently protected
- Steel cabinet and hood painted to match unit

NOTE - Requires optional Downflow Economizer Barometric Relief Dampers. See Standard Static Power Exhaust Blower Tables.

Horizontal Barometric Relief Dampers

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

NOTE - Horizontal Economizer Conversion kit is available for field installation.

OPTIONS / ACCESSORIES

OUTDOOR AIR

Factory or Field Installed

Outdoor Air Damper - Downflow or Horizontal With Air Hood

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

NOTE - Minimum mixed air temperature in heating mode is -1°C. Maximum mixed air temperature in cooling mode is 32°C.

ROOF CURBS

- Nailer strip furnished
- Mates to unit
- US National Roofing Contractors Approved
- Shipped knocked down

Downflow

Hybrid Roof Curbs

- Interlocking tabs to fasten corners together
- No tools required
- Curb can also be fastened together with furnished hardware
- Available in 356, 457, and 610 mm heights

NOTE - See Options/Accessories table.

Horizontal

- Converts unit from downflow to horizontal (side) air flow
- Return air is on unit, supply air is on curb, see dimension drawings
- Available in 940 mm and 1041 mm heights

NOTE - Requires Horizontal Return Air Panel Kit

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

CEILING DIFFUSERS

Field Installed

Ceiling Diffusers (Flush or Step-Down)

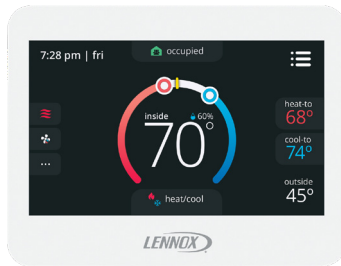
- White powder coat finish on diffuser face and grilles
- Insulated UL listed duct liner
- Diffuser box has collars for duct connection
- Step-down diffusers have double deflection blades
- Flush diffusers have fixed blades
- Provisions for suspending
- Internally sealed to prevent recirculation
- Removable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

Transitions (Supply and Return)

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

OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

ComfortSense® 8500 Commercial 7-Day Programmable Thermostat



- Fully Communicating Sensor
- Full Color Touchscreen Interface
- Variable Speed System Control (On Compatible Units)
- Up To 4 Heat / 4 Cool
- Built-In Sensors For Temperature, Humidity And Optional CO₂
- Remote Sensor Options For Occupancy, Temperature
- BACnet Capable Options
- 5-2 or 7-Day Scheduling
- Smooth Setback Recovery
- Heat/Cool Auto-Changeover
- Four-Wire Installation
- FDD, ASHRAE, IECC Compliant

ComfortSense® 7500 Commercial 7-Day Programmable Thermostat



- Premium Universal Thermostat
- Full Color Touchscreen Interface
- Up To 4 Heat / 4 Cool
- Built-In Sensors For Temperature and Humidity
- Remote Sensors Options For Temperature, Discharge Air, Outdoor Air
- 5-2 or 7-Day Scheduling
- Smooth Setback Recovery
- Heat/Cool Auto-Changeover
- FDD, ASHRAE, IECC Compliant

ComfortSense® 3000 Commercial 5-2 Day Programmable Thermostat



- Conventional Multi-Stage Thermostat
- Intuitive Display
- Push-Button Operation
- Up To 2 Heat / 2 Cool
- Built-In Temperature Sensor
- Remote Temperature Sensing
- Up to 5-2 Day Scheduling
- Smooth Setback Recovery
- Heat/Cool Auto-changeover

Wired Room Sensor (LCS-5030)



- Simple Push-Button Override
- Variable Speed System Control (On Compatible Units)
- Up To 4 Heat / 4 Cool
- Built-In Temperature and Humidity Sensors
- AA Battery / 24VAC Powered
- SBUS Wired Operation
- Automatic Sensor Averaging
- Locking Hex Screw

OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

| Description | Catalog No. |
|---|---|
| ComfortSense® 8500 Commercial 7 Day Programmable Thermostat | |
| CS8500 7-Day Thermostat | No CO ₂ Sensing 17G75 |
| | With CO ₂ Sensing 17G76 |
| Sensors/Accessories | ¹ Remote non-adjustable wall-mount 10k 47W37 |
| | ¹ Remote non-adjustable wall-mount 11k 94L61 |
| Sysbus Network Cable (Yellow) for ComfortSense 8500 and LCS-5030 Wired Room Sensor | |
| Twisted pair 100% shielded communication cable, Red and Black | 500 ft. box 27M19 |
| 22 AWG, yellow jacket, rated at 75°C, 300V, Plenum rated | 1000 ft. box 94L63 |
| Insulation - Low smoke PVC, NEC, CMP | 2500 ft. roll 68M25 |
| ComfortSense® 7500 Commercial 7-Day Programmable Thermostat | |
| CS7500 7-Day Thermostat | 17G74 |
| Sensors/Accessories | ² Remote non-adjustable wall-mount 20k 47W36 |
| | ² Remote non-adjustable wall-mount 10k 47W37 |
| | Remote non-adjustable discharge air (duct mount) 19L22 |
| | Outdoor temperature sensor X2658 |
| ComfortSense® 3000 Commercial 5-2 Day Programmable Thermostat | |
| CS3000 5-2 Day Thermostat | 11Y05 |
| Sensors/Accessories | Remote non-adjustable wall mount 10k averaging 47W37 |
| | Thermostat wall mounting plate X2659 |
| ComfortSense® Non-Programmable Thermostat | |
| CS3000 Non-Programmable Thermostat | 51M32 |
| Universal Thermostat Guard with Lock (clear) | |
| | Inside Dimensions (H x W) 5 7/8 x 8 3/8 in. 39P21 |
| Wired Room Sensor | |
| LCS-5030 Wired Room Sensor | 21L07 |

¹ Up to nine of the same type remote temperature sensors can be connected in parallel.

² Remote wall-mount sensors can be applied in any of the following combinations:

One Sensor - (1) 47W36, Two Sensors - (2) 47W37, Three Sensors - (2) 47W36 and (1) 47W37

Four Sensors - (4) 47W36, Five Sensors - (3) 47W36 and (2) 47W37

OPTIONS / ACCESSORIES

| Item Description | Model Number | Catalog Number | Unit Model No | |
|--|---|----------------|---------------|-----|
| | | | 300 | 360 |
| COOLING SYSTEM | | | | |
| Condensate Drain Trap | Polyvinyl chloride (PVC) - C1TRAP20AD2 | 22H54 | OX | OX |
| | Copper - C1TRAP10AD2 | 76W27 | OX | OX |
| Corrosion Protection | | Factory | O | O |
| Drain Pan Overflow Switch | E1SNSR71AD1 | 21Z07 | OX | OX |
| Efficiency | High | Factory | O | O |
| Refrigerant Type | R-410A | Factory | O | O |
| Plastic Condensate Drain Pan | | Factory | O | O |
| Stainless Steel Condensate Drain Pan | C1DPAN10D-1- | 83W42 | OX | OX |
| BLOWER - SUPPLY AIR | | | | |
| Motors | Belt Drive - 3.7 kW | Factory | O | O |
| | Belt Drive - 5.6 kW | Factory | O | O |
| | Belt Drive - 7.5 kW | Factory | O | O |
| Drive Kits See Blower Data Tables for usage and selection | Kit #1 615-745 rev/min | Factory | O | O |
| | Kit #2 725-870 rev/min | Factory | O | O |
| | Kit #3 595-730 rev/min | Factory | O | O |
| | Kit #4 640-805 rev/min | Factory | O | O |
| | Kit #5 550-675 rev/min | Factory | O | O |
| | Kit #6 640-805 rev/min | Factory | O | O |
| | Kit #7 475-600 rev/min | Factory | O | O |
| | Kit #8 400-525 rev/min | Factory | O | O |
| | Blower Belt Auto-Tensioner | Factory | O | O |
| CABINET | | | | |
| Combination Coil/Hail Guards | C1GARD52D-1 | 13T16 | X | X |
| Grille Guards | C1GARD39D-1- | 86K30 | X | X |
| Horizontal Return Air Panel Kit | | 38K48 | X | X |
| CONTROLS | | | | |
| Blower Proving Switch | C1SNSR35FF1 | 21Z10 | OX | OX |
| | Prodigy® Control System - BACnet® Module - C0CTRL60AE1L | 59W51 | OX | OX |
| | Prodigy® Control System - LonTalk® Module - C0CTRL65FF1 | 54W27 | OX | OX |
| | Novar® LSE | Factory | O | O |
| Dirty Filter Switch | E1SNSR55C-1 | 53W68 | OX | OX |
| Discharge Air Temperature Sensor | | Factory | O | O |
| Fresh Air Tempering | C1SNSR75AD1 | 21Z08 | OX | OX |
| Smoke Detector - Supply or Return (Power board and one sensor) | C1SNSR44C-1 | 22H56 | OX | OX |
| Smoke Detector - Supply and Return (Power board and two sensors) | C1SNSR43C-1 | 22H57 | OX | OX |
| Supply Static Limit Switch | C0SNSR11AE1 | 79M80 | X | X |
| Supply Static Limit Switch - Mounting Kit | C0SNSR12AE1 | 79M81 | X | X |
| Supply Static Transducer | C0SNSR20AE1 | 78M19 | X | X |

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

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

O = Configure To Order (Factory Installed)

X = Field Installed

OPTIONS / ACCESSORIES

| Item Description | Model Number | Catalog Number | Unit Model No | |
|--|-----------------------------|----------------|---------------|-----|
| | | | 300 | 360 |
| INDOOR AIR QUALITY | | | | |
| Air Filters | | | | |
| Healthy Climate High Efficiency Air Filters 508 x 508 x 51 mm - order 12 per unit | MERV 8 - C1FLTR15D-1- | 54W21 | OX | OX |
| | MERV 13 - C1FLTR40D-1- | 52W39 | OX | OX |
| Replaceable Media Filter with Metal Mesh Frame (includes Non-Pleated Filter Media) 508 x 508 x 51 mm - order 12 per unit | C1FLTR30D-1- | 44N60 | X | X |
| Indoor Air Quality (CO₂) Sensors | | | | |
| Sensor - Wall-mount, off-white plastic cover with LCD display | C0SNSR50AE1L | 77N39 | X | X |
| Sensor - Wall-mount, off-white plastic cover, no display | C0SNSR52AE1L | 87N53 | X | X |
| Sensor - Black plastic case with LCD display, rated for plenum mounting | C0SNSR51AE1L | 87N52 | X | X |
| Sensor - Wall-mount, black plastic case, no display, rated for plenum mounting | C0MISC19AE1 | 87N54 | X | X |
| CO ₂ Sensor Duct Mounting Kit - for downflow applications | C0MISC19AE1- | 85L43 | X | X |
| Aspiration Box - for duct mounting non-plenum rated CO ₂ sensors (87N53 or 77N39) | C0MISC16AE1- | 90N43 | X | X |
| ELECTRICAL | | | | |
| Voltage 50 hz with neutral | 380/420V - 3 phase | Factory | O | O |
| ELECTRIC HEAT | | | | |
| 23 kW | 380/420V-3ph - C1EH0230C21M | 67W98 | OX | OX |
| 34.5 kW | 380/420V-3ph - C1EH0345C21M | 68W00 | OX | OX |
| 45.9 kW | 380/420V-3ph - C1EH0459C21M | 68W02 | OX | OX |
| 91.9 kW | 380/420V-3ph - E1EH0900D-1M | 74W01 | OX | OX |
| ECONOMIZER | | | | |
| High Performance Economizer | | | | |
| High Performance Economizer Downflow or Horizontal Applications - Includes Outdoor Air Hood. Order Downflow or Horizontal Barometric Relief Dampers separately. | E1ECON17D-2 | 18X87 | OX | OX |
| Economizer Controls | | | | |
| Differential Enthalpy | Order 2 - C1SNSR64FF1 | 21Z09 | OX | OX |
| Sensible Control | Sensor is Furnished | Factory | O | O |
| Single Enthalpy | C1SNSR64FF1 | 21Z09 | OX | OX |
| Global, Enthalpy | Sensor Field Provided | Factory | O | O |
| Differential Sensible | Sensor is Furnished | Factory | O | O |
| Barometric Relief Dampers With Exhaust Hood | | | | |
| Downflow Barometric Relief Dampers | E1DAMP60D-1 | 76W17 | OX | OX |
| Horizontal Barometric Relief Dampers | LAGEDH30/36 | 33K78 | OX | OX |
| OUTDOOR AIR | | | | |
| Outdoor Air Dampers With Outdoor Air Hood | | | | |
| Motorized | E1DAMP25D-2- | 18X89 | OX | OX |
| Manual | E1DAMP15D-2- | 18X88 | OX | OX |

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

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

O = Configure To Order (Factory Installed)

X = Field Installed

OPTIONS / ACCESSORIES

| Item Description | Model Number | Catalog Number | Unit Model No | |
|--|-------------------------|----------------|---------------|-----|
| | | | 300 | 360 |
| POWER EXHAUST | | | | |
| Standard Static | 380/420V - E1PWRE40D-1M | 74W24 | OX | OX |
| ROOF CURBS | | | | |
| Hybrid Roof Curbs, Downflow | | | | |
| 356 mm height | C1CURB71D-1 | 11F62 | X | X |
| 457 mm height | C1CURB72D-1 | 11F63 | X | X |
| 610 mm height | C1CURB73D-1 | 11F64 | X | X |
| Standard Roof Curbs, Horizontal - Requires Horizontal Air Panel Kit | | | | |
| 762 mm height - slab applications | C1CURB15C-1 | 11T90 | X | X |
| 1041 mm height - rooftop applications | C1CURB17C-1 | 11T97 | X | X |
| Horizontal Return Air Panel Kit (Required) | | 38K48 | X | X |
| Insulation Kit For Standard Horizontal Curbs | | | | |
| | for C1CURB15C-1 | 73K33 | X | X |
| | for C1CURB17C-1 | 73K35 | X | X |
| CEILING DIFFUSERS | | | | |
| Step-Down - Order one | LARTD30/36S | 45K74 | X | X |
| Flush - Order one | LAFD30/36S | 45K75 | X | X |
| Transitions (Supply and Return) - Order one | LASRT30/36 | 33K80 | X | X |

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

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

O = Configure To Order (Factory Installed)

X = Field Installed

SPECIFICATIONS

| General Data | | Nominal kW (Tons) | 88 (25) | 105 (30) | |
|---|--|--|--|---------------------------|-------------------------|
| | | Model Number | LCH300H4B | LCH360H4B | |
| | | Efficiency Type | High | High | |
| | | Blower Type | Constant Air Volume (CAV) | Constant Air Volume (CAV) | |
| Cooling Performance | Gross Cooling Capacity - kW (Btuh) | | 76.8 (262 000) | 92.0 (314 000) | |
| | ¹ Net Cooling Capacity - kW (Btuh) | | 74.4 (254 000) | 88.5 (302 000) | |
| | AHRI Rated Air Flow - L/s (cfm) | | 3825 (8100) | 4530 (9600) | |
| | Total Unit Power - kW | | 21.1 | 27.5 | |
| | ¹ EER (Btuh/Watt) at 35°C (95°F) | | 12.0 | 11.0 | |
| | ² EER (Btuh/Watt) at 46°C (115°F) | | 8.6 | 8.6 | |
| | ¹ IEER (Btuh/Watt) | | 12.5 | 11.5 | |
| | Refrigerant Type | | R-410A | R-410A | |
| | Refrigerant Charge | Circuit 1 | | 4.2 kg (9 lbs. 4 oz.) | 4.1 kg (9 lbs. 0 oz.) |
| | | Circuit 2 | | 4.1 kg (9 lbs. 0 oz.) | 3.6 kg (8 lbs. 0 oz.) |
| Circuit 3 | | | 4.0 kg (8 lbs. 12 oz.) | 4.1 kg (9 lbs. 0 oz.) | |
| Circuit 4 | | | 3.9 kg (8 lbs. 8 oz.) | 3.4 kg (7 lbs. 8 oz.) | |
| Electric Heat Available | | See page 19 | | | |
| Compressor Type (number) | | | Scroll (4) | Scroll (4) | |
| Outdoor Coils | Net face area - m ² (sq. ft.) total | | 6.3 (68.3) | 6.3 (68.3) | |
| | Number of rows | | 1 | 1 | |
| | Fins per m (Fins per inch) | | 906 (23) | 906 (23) | |
| Outdoor Coil Fans | Motor - (No.) W (hp) | | (6) 249 (1/3) | (6) 249 (1/3) | |
| | Motor rev/min | | 900 | 900 | |
| | Total Motor watts | | 1775 | 1775 | |
| | Diameter - mm (in.) | | (6) 610 (24) | (6) 610 (24) | |
| | Number of blades | | 3 | 3 | |
| | Total Air volume - L/s (cfm) | | 8450 (17 900) | 8450 (17 900) | |
| | Indoor Coils | Net face area - m ² (sq. ft.) total | | 2.9 (31.40) | 2.9 (31.40) |
| Tube diameter - mm (in.) | | | 9.5 (3/8) | 9.5 (3/8) | |
| Number of rows | | | 4 | 4 | |
| Fins per m (Fins per inch) | | | 551 (14) | (551) 14 | |
| Drain connection - No. and size | | | (1) 1 in. NPT | (1) 1 in. NPT | |
| Expansion device type | | | Balance port Thermostatic Expansion Valve (TXV), removable head | | |
| ³ Indoor Blower and Kit Selection | Nominal motor output | | 3.7 kW (5 hp) - 5.6 kW (7.5 hp) - 7.5 kW (10 hp) | | |
| | Maximum usable motor output | | 4.3 kW (5.75 hp) - 6.4 kW (8.63 hp) - 8.6 kW (11.5 hp) | | |
| | Motor - Drive kit | | | 3.7 kW (5 hp) | 3.7 kW (5 hp) |
| | | | | Kit 5 - 550-675 rev/min | Kit 5 - 550-675 rev/min |
| | | | | Kit 6 - 640-805 rev/min | Kit 6 - 640-805 rev/min |
| | | | | Kit 7 - 475-600 rev/min | Kit 7 - 475-600 rev/min |
| | | | Kit 8 - 400-525 rev/min | | |
| | | | 5.6 kW (7.5 hp) | 5.6 kW (7.5 hp) | |
| | | | Kit 3 - 595-730 rev/min | Kit 3 - 595-730 rev/min | |
| | | | Kit 4 - 640-805 rev/min | Kit 4 - 640-805 rev/min | |
| | | 7.5 kW (10 hp) | 7.5 kW (10 hp) | | |
| | | Kit 1 - 615-745 rev/min | Kit 1 - 615-745 rev/min | | |
| | | Kit 2 - 725-870 rev/min | Kit 2 - 725-870 rev/min | | |
| Blower wheel nominal diameter and width - mm (in.) | | | (2) 457 x 381 (18 x 15) | | |
| Filters | Type of filter | | Fiberglass, disposable | | |
| | Number and size - mm (in.) | | (12) 508 x 508 x 51 (20 x 20 x 2) | | |
| Electrical characteristics | | | 380/420V - 50 hertz - 3 phase with neutral (No neutral on CE marked models) | | |

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

¹ Tested at conditions based on AHRI Standard 340/360; 35°C (95°F) outdoor air temperature and 27°C (80°F) db/19°C (67°F) wb entering evaporator air; minimum external duct static pressure while operating at rated voltage and air volumes.

² Rated at 46°C (115°F) outdoor air temperature and 27°C (80°F) db/19°C (67°F) wb entering evaporator air (T3 Conditions).

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. See Belt Drive Specification Table for maximum usable motor output. If motors of comparable output are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

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 - LCH300H4 (1ST STAGE)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|
| | | 18.3°C | | | | | | 23.9°C | | | | | 29.4°C | | | | | 35°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | |
| 17.2°C | 3775 | 43.1 | 6.21 | 0.74 | 0.87 | 0.99 | 41.1 | 6.92 | 0.74 | 0.88 | 1 | 39 | 7.72 | 0.75 | 0.9 | 1 | 36.9 | 8.63 | 0.76 | 0.92 | 1 | |
| | 4720 | 45.2 | 6.31 | 0.79 | 0.95 | 1 | 43.2 | 7.01 | 0.79 | 0.96 | 1 | 41.1 | 7.81 | 0.81 | 0.98 | 1 | 39 | 8.73 | 0.83 | 1 | 1 | |
| | 5665 | 47.1 | 6.4 | 0.84 | 1 | 1 | 45.3 | 7.11 | 0.85 | 1 | 1 | 43.2 | 7.91 | 0.87 | 1 | 1 | 41.2 | 8.83 | 0.89 | 1 | 1 | |
| 19.4°C | 3775 | 45.7 | 6.33 | 0.58 | 0.71 | 0.84 | 43.7 | 7.04 | 0.58 | 0.72 | 0.85 | 41.6 | 7.83 | 0.58 | 0.73 | 0.87 | 39.4 | 8.75 | 0.58 | 0.74 | 0.89 | |
| | 4720 | 47.9 | 6.43 | 0.61 | 0.77 | 0.92 | 45.7 | 7.13 | 0.62 | 0.78 | 0.93 | 43.5 | 7.92 | 0.62 | 0.79 | 0.95 | 41.2 | 8.83 | 0.63 | 0.8 | 0.97 | |
| | 5665 | 49.4 | 6.51 | 0.65 | 0.82 | 0.98 | 47.2 | 7.2 | 0.65 | 0.83 | 0.99 | 45 | 7.99 | 0.67 | 0.85 | 1 | 42.6 | 8.89 | 0.66 | 0.87 | 1 | |
| 21.7°C | 3775 | 48.8 | 6.47 | 0.44 | 0.57 | 0.69 | 46.7 | 7.18 | 0.44 | 0.57 | 0.7 | 44.5 | 7.97 | 0.43 | 0.57 | 0.71 | 42.2 | 8.87 | 0.43 | 0.57 | 0.72 | |
| | 4720 | 50.9 | 6.58 | 0.45 | 0.6 | 0.75 | 48.7 | 7.28 | 0.45 | 0.61 | 0.76 | 46.5 | 8.06 | 0.44 | 0.61 | 0.77 | 44 | 8.97 | 0.44 | 0.62 | 0.78 | |
| | 5665 | 52.4 | 6.66 | 0.46 | 0.64 | 0.8 | 50.2 | 7.35 | 0.46 | 0.64 | 0.82 | 47.9 | 8.14 | 0.46 | 0.66 | 0.83 | 45.3 | 9.03 | 0.46 | 0.66 | 0.85 | |

88 kW - LCH300H4 (2ND STAGE)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|
| | | 26.7°C | | | | | | 35°C | | | | | 43.3°C | | | | | 46°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | |
| 17.2°C | 3775 | 77.6 | 14.59 | 0.76 | 0.91 | 1.00 | 71.7 | 17.27 | 0.77 | 0.93 | 1.00 | 64.9 | 20.63 | 0.79 | 0.97 | 1.00 | 62.5 | 21.88 | 0.81 | 0.99 | 1.00 | |
| | 4720 | 81.6 | 14.79 | 0.82 | 0.98 | 1.00 | 75.6 | 17.46 | 0.84 | 1.00 | 1.00 | 69.3 | 20.84 | 0.87 | 1.00 | 1.00 | 67.6 | 22.11 | 0.89 | 1.00 | 1.00 | |
| | 5665 | 85.8 | 14.99 | 0.87 | 1.00 | 1.00 | 79.9 | 17.68 | 0.90 | 1.00 | 1.00 | 73.2 | 21.02 | 0.94 | 1.00 | 1.00 | 71.2 | 22.26 | 0.96 | 1.00 | 1.00 | |
| 19.4°C | 3775 | 82.9 | 14.85 | 0.59 | 0.74 | 0.88 | 76.7 | 17.51 | 0.59 | 0.75 | 0.90 | 69.5 | 20.84 | 0.60 | 0.77 | 0.93 | 66.9 | 22.05 | 0.61 | 0.80 | 0.92 | |
| | 4720 | 86.5 | 15.03 | 0.63 | 0.80 | 0.96 | 80.1 | 17.68 | 0.63 | 0.82 | 0.98 | 72.7 | 20.99 | 0.65 | 0.85 | 1.00 | 69.8 | 22.20 | 0.66 | 0.89 | 1.00 | |
| | 5665 | 89.4 | 15.17 | 0.67 | 0.86 | 1.00 | 82.6 | 17.80 | 0.68 | 0.88 | 1.00 | 75.0 | 21.12 | 0.70 | 0.92 | 1.00 | 72.2 | 22.32 | 0.71 | 0.96 | 1.00 | |
| 21.7°C | 3775 | 88.3 | 15.12 | 0.44 | 0.58 | 0.72 | 81.9 | 17.77 | 0.43 | 0.58 | 0.73 | 74.7 | 21.10 | 0.42 | 0.59 | 0.75 | 71.9 | 22.30 | 0.42 | 0.60 | 0.72 | |
| | 4720 | 92.2 | 15.32 | 0.45 | 0.62 | 0.78 | 85.4 | 17.95 | 0.45 | 0.63 | 0.80 | 77.7 | 21.26 | 0.44 | 0.64 | 0.83 | 75.0 | 22.47 | 0.44 | 0.67 | 0.80 | |
| | 5665 | 94.8 | 15.46 | 0.47 | 0.66 | 0.84 | 87.9 | 18.08 | 0.47 | 0.68 | 0.86 | 79.9 | 21.37 | 0.47 | 0.69 | 0.90 | 77.0 | 22.58 | 0.47 | 0.72 | 0.87 | |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|--|--|
| | | 48°C | | | | | | 50°C | | | | | 51.7°C | | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | |
| 17.2°C | 3775 | 60.4 | 22.87 | 0.81 | 0.99 | 1.00 | 58.4 | 23.89 | 0.82 | 1.00 | 1.00 | 56.9 | 24.80 | 0.83 | 1.00 | 1.00 | | | |
| | 4720 | 65.1 | 23.09 | 0.89 | 1.00 | 1.00 | 63.1 | 24.10 | 0.91 | 1.00 | 1.00 | 61.5 | 25.02 | 0.92 | 1.00 | 1.00 | | | |
| | 5665 | 68.6 | 23.24 | 0.97 | 1.00 | 1.00 | 66.6 | 24.27 | 0.98 | 1.00 | 1.00 | 64.8 | 25.16 | 0.99 | 1.00 | 1.00 | | | |
| 19.4°C | 3775 | 64.7 | 23.05 | 0.60 | 0.79 | 0.96 | 62.5 | 24.08 | 0.61 | 0.80 | 0.97 | 60.6 | 24.95 | 0.61 | 0.81 | 0.98 | | | |
| | 4720 | 67.6 | 23.17 | 0.65 | 0.87 | 1.00 | 65.3 | 24.20 | 0.66 | 0.89 | 1.00 | 63.4 | 25.10 | 0.67 | 0.90 | 1.00 | | | |
| | 5665 | 69.8 | 23.29 | 0.71 | 0.95 | 1.00 | 67.5 | 24.31 | 0.72 | 0.96 | 1.00 | 65.4 | 25.19 | 0.73 | 0.97 | 1.00 | | | |
| 21.7°C | 3775 | 69.6 | 23.27 | 0.41 | 0.60 | 0.77 | 67.2 | 24.29 | 0.41 | 0.60 | 0.78 | 65.3 | 25.20 | 0.41 | 0.60 | 0.78 | | | |
| | 4720 | 72.4 | 23.43 | 0.44 | 0.65 | 0.85 | 69.9 | 24.42 | 0.44 | 0.66 | 0.86 | 67.8 | 25.32 | 0.44 | 0.66 | 0.87 | | | |
| | 5665 | 74.4 | 23.54 | 0.46 | 0.71 | 0.93 | 72.0 | 24.55 | 0.46 | 0.72 | 0.94 | 69.8 | 25.44 | 0.47 | 0.73 | 0.95 | | | |

RATINGS

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

105 kW - LCH360H4 (1ST STAGE)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|
| | | 18.3°C | | | | | | 23.9°C | | | | | 29.4°C | | | | | 35°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | |
| 17.2°C | 4455 | 51.5 | 8.07 | 0.73 | 0.86 | 0.99 | 49.2 | 8.94 | 0.73 | 0.88 | 1 | 46.9 | 9.92 | 0.74 | 0.89 | 1 | 44.6 | 11.06 | 0.75 | 0.91 | 1 | |
| | 5569 | 54 | 8.2 | 0.78 | 0.94 | 1 | 51.5 | 9.06 | 0.79 | 0.96 | 1 | 49.2 | 10.04 | 0.8 | 0.98 | 1 | 46.8 | 11.18 | 0.81 | 0.99 | 1 | |
| | 6683 | 56 | 8.31 | 0.83 | 1 | 1 | 53.7 | 9.18 | 0.85 | 1 | 1 | 51.5 | 10.16 | 0.86 | 1 | 1 | 49.1 | 11.32 | 0.88 | 1 | 1 | |
| 19.4°C | 4455 | 54.5 | 8.23 | 0.57 | 0.71 | 0.83 | 52.1 | 9.09 | 0.58 | 0.71 | 0.85 | 49.7 | 10.07 | 0.58 | 0.72 | 0.86 | 47.2 | 11.21 | 0.58 | 0.73 | 0.88 | |
| | 5569 | 56.8 | 8.35 | 0.61 | 0.76 | 0.91 | 54.3 | 9.21 | 0.61 | 0.77 | 0.93 | 51.8 | 10.18 | 0.62 | 0.78 | 0.95 | 49.2 | 11.32 | 0.62 | 0.8 | 0.96 | |
| | 6683 | 58.5 | 8.44 | 0.64 | 0.82 | 0.98 | 56 | 9.3 | 0.65 | 0.83 | 0.99 | 53.4 | 10.29 | 0.65 | 0.85 | 1 | 50.8 | 11.42 | 0.66 | 0.86 | 1 | |
| 21.7°C | 4455 | 57.9 | 8.41 | 0.44 | 0.56 | 0.69 | 55.4 | 9.27 | 0.43 | 0.57 | 0.69 | 52.9 | 10.25 | 0.43 | 0.57 | 0.7 | 50.3 | 11.39 | 0.42 | 0.57 | 0.71 | |
| | 5569 | 60.3 | 8.54 | 0.45 | 0.6 | 0.75 | 57.6 | 9.4 | 0.45 | 0.6 | 0.75 | 55.1 | 10.38 | 0.44 | 0.61 | 0.76 | 52.4 | 11.51 | 0.44 | 0.61 | 0.77 | |
| | 6683 | 62 | 8.64 | 0.46 | 0.64 | 0.8 | 59.2 | 9.49 | 0.46 | 0.64 | 0.81 | 56.6 | 10.46 | 0.46 | 0.64 | 0.83 | 53.9 | 11.6 | 0.46 | 0.66 | 0.84 | |

105 kW - LCH360H4 (2ND STAGE)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|
| | | 26.7°C | | | | | | 35°C | | | | | 43.3°C | | | | | 46°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | |
| 17.2°C | 4455 | 94.0 | 18.85 | 0.75 | 0.90 | 1.00 | 86.8 | 22.11 | 0.76 | 0.92 | 1.00 | 78.7 | 26.17 | 0.78 | 0.96 | 1.00 | 75.9 | 27.62 | 0.80 | 0.99 | 1.00 | |
| | 5569 | 98.4 | 19.09 | 0.81 | 0.97 | 1.00 | 91.1 | 22.35 | 0.83 | 1.00 | 1.00 | 83.3 | 26.45 | 0.86 | 1.00 | 1.00 | 81.2 | 27.97 | 0.88 | 1.00 | 1.00 | |
| | 6683 | 102.7 | 19.33 | 0.87 | 1.00 | 1.00 | 95.6 | 22.63 | 0.89 | 1.00 | 1.00 | 87.7 | 26.73 | 0.93 | 1.00 | 1.00 | 85.2 | 28.22 | 0.96 | 1.00 | 1.00 | |
| 19.4°C | 4455 | 99.9 | 19.17 | 0.58 | 0.73 | 0.87 | 92.3 | 22.44 | 0.58 | 0.74 | 0.89 | 83.8 | 26.48 | 0.59 | 0.76 | 0.93 | 80.5 | 27.92 | 0.60 | 0.79 | 0.92 | |
| | 5569 | 104.0 | 19.41 | 0.62 | 0.79 | 0.95 | 96.0 | 22.66 | 0.63 | 0.81 | 0.98 | 87.2 | 26.70 | 0.64 | 0.84 | 1.00 | 83.9 | 28.15 | 0.66 | 0.88 | 1.00 | |
| | 6683 | 107.1 | 19.58 | 0.66 | 0.85 | 1.00 | 98.9 | 22.83 | 0.67 | 0.88 | 1.00 | 89.7 | 26.85 | 0.68 | 0.91 | 1.00 | 86.5 | 28.32 | 0.70 | 0.96 | 1.00 | |
| 21.7°C | 4455 | 105.9 | 19.51 | 0.43 | 0.57 | 0.71 | 98.0 | 22.77 | 0.43 | 0.57 | 0.72 | 89.4 | 26.84 | 0.42 | 0.59 | 0.74 | 86.2 | 28.31 | 0.42 | 0.61 | 0.72 | |
| | 5569 | 110.2 | 19.77 | 0.45 | 0.62 | 0.77 | 102.0 | 23.01 | 0.44 | 0.62 | 0.79 | 92.8 | 27.05 | 0.44 | 0.63 | 0.82 | 89.4 | 28.51 | 0.44 | 0.66 | 0.80 | |
| | 6683 | 113.2 | 19.95 | 0.46 | 0.65 | 0.83 | 104.8 | 23.19 | 0.46 | 0.67 | 0.86 | 95.1 | 27.22 | 0.46 | 0.68 | 0.89 | 91.6 | 28.65 | 0.47 | 0.71 | 0.87 | |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|--|--|
| | | 48°C | | | | | | 50°C | | | | | 51.7°C | | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | |
| 17.2°C | 4455 | 73.2 | 28.80 | 0.80 | 0.98 | 1.00 | 70.7 | 29.99 | 0.81 | 0.99 | 1.00 | 68.6 | 31.08 | 0.82 | 1.00 | 1.00 | | | |
| | 5569 | 78.2 | 29.13 | 0.88 | 0.91 | 1.00 | 75.8 | 30.34 | 0.89 | 1.00 | 1.00 | 73.7 | 31.43 | 0.91 | 1.00 | 1.00 | | | |
| | 6683 | 82.0 | 29.38 | 0.96 | 1.00 | 1.00 | 79.5 | 30.59 | 0.97 | 1.00 | 1.00 | 77.2 | 31.69 | 0.98 | 1.00 | 1.00 | | | |
| 19.4°C | 4455 | 77.9 | 29.10 | 0.60 | 0.78 | 0.95 | 75.2 | 30.30 | 0.60 | 0.79 | 0.97 | 72.8 | 31.38 | 0.60 | 0.80 | 0.98 | | | |
| | 5569 | 81.0 | 29.32 | 0.65 | 0.86 | 1.00 | 78.2 | 30.50 | 0.65 | 0.87 | 1.00 | 75.9 | 31.60 | 0.66 | 0.89 | 1.00 | | | |
| | 6683 | 83.4 | 29.48 | 0.70 | 0.94 | 1.00 | 80.5 | 30.69 | 0.71 | 0.95 | 1.00 | 78.1 | 31.76 | 0.72 | 0.97 | 1.00 | | | |
| 21.7°C | 4455 | 83.1 | 29.45 | 0.41 | 0.59 | 0.76 | 80.4 | 30.67 | 0.41 | 0.59 | 0.77 | 77.9 | 31.73 | 0.41 | 0.60 | 0.78 | | | |
| | 5569 | 86.4 | 29.69 | 0.44 | 0.65 | 0.84 | 83.3 | 30.90 | 0.44 | 0.65 | 0.85 | 80.5 | 31.93 | 0.44 | 0.66 | 0.87 | | | |
| | 6683 | 88.5 | 29.82 | 0.46 | 0.70 | 0.92 | 85.5 | 31.03 | 0.46 | 0.71 | 0.94 | 82.7 | 32.09 | 0.46 | 0.72 | 0.95 | | | |

BLOWER DATA

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

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

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

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

See page 17 for factory installed drive kit specifications.

MINIMUM AIR VOLUME REQUIRED FOR USE WITH OPTIONAL ELECTRIC HEAT

All units require 4955 L/s (10 500 cfm) minimum air with electric heat.

| Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | |
|------------|--------|---|------|------|------------|------|------|------------|------|------|------------|------|-------|------------|------|-------|------------|------|-------|
| | | 100 (0.40) | | | 150 (0.60) | | | 200 (0.80) | | | 250 (1.00) | | | 300 (1.20) | | | 350 (1.40) | | |
| L/s | cfm | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP |
| 1890 | 4000 | 433 | 0.49 | 0.66 | 497 | 0.74 | 0.99 | 565 | 0.95 | 1.27 | 630 | 1.15 | 1.54 | 687 | 1.33 | 1.78 | 738 | 1.52 | 2.04 |
| 2125 | 4500 | 441 | 0.59 | 0.79 | 506 | 0.83 | 1.11 | 574 | 1.05 | 1.41 | 638 | 1.26 | 1.69 | 694 | 1.45 | 1.94 | 744 | 1.65 | 2.21 |
| 2360 | 5000 | 451 | 0.7 | 0.94 | 516 | 0.93 | 1.25 | 584 | 1.16 | 1.55 | 646 | 1.38 | 1.85 | 702 | 1.58 | 2.12 | 751 | 1.79 | 2.40 |
| 2595 | 5500 | 462 | 0.81 | 1.09 | 527 | 1.04 | 1.39 | 594 | 1.28 | 1.72 | 655 | 1.51 | 2.02 | 710 | 1.72 | 2.31 | 758 | 1.95 | 2.61 |
| 2830 | 6000 | 473 | 0.93 | 1.25 | 539 | 1.16 | 1.55 | 605 | 1.42 | 1.90 | 665 | 1.65 | 2.21 | 718 | 1.87 | 2.51 | 766 | 2.11 | 2.83 |
| 3070 | 6500 | 486 | 1.06 | 1.42 | 551 | 1.3 | 1.74 | 616 | 1.56 | 2.09 | 675 | 1.8 | 2.41 | 727 | 2.04 | 2.73 | 774 | 2.29 | 3.07 |
| 3300 | 7000 | 499 | 1.19 | 1.60 | 565 | 1.44 | 1.93 | 628 | 1.73 | 2.32 | 685 | 1.97 | 2.64 | 737 | 2.22 | 2.98 | 782 | 2.49 | 3.34 |
| 3540 | 7500 | 513 | 1.34 | 1.80 | 579 | 1.6 | 2.14 | 641 | 1.9 | 2.55 | 696 | 2.15 | 2.88 | 747 | 2.42 | 3.24 | 792 | 2.71 | 3.63 |
| 3775 | 8000 | 528 | 1.49 | 2.00 | 593 | 1.78 | 2.39 | 653 | 2.1 | 2.82 | 708 | 2.35 | 3.15 | 757 | 2.63 | 3.53 | 801 | 2.95 | 3.95 |
| 4010 | 8500 | 544 | 1.66 | 2.23 | 608 | 1.98 | 2.65 | 667 | 2.31 | 3.10 | 720 | 2.57 | 3.45 | 768 | 2.87 | 3.85 | 812 | 3.21 | 4.30 |
| 4245 | 9000 | 561 | 1.85 | 2.48 | 624 | 2.2 | 2.95 | 681 | 2.54 | 3.40 | 733 | 2.8 | 3.75 | 780 | 3.13 | 4.20 | 823 | 3.5 | 4.69 |
| 4480 | 9500 | 578 | 2.05 | 2.75 | 640 | 2.44 | 3.27 | 696 | 2.78 | 3.73 | 746 | 3.06 | 4.10 | 792 | 3.42 | 4.58 | 834 | 3.81 | 5.11 |
| 4720 | 10 000 | 596 | 2.28 | 3.06 | 657 | 2.69 | 3.61 | 711 | 3.04 | 4.08 | 760 | 3.34 | 4.48 | 805 | 3.73 | 5.00 | 845 | 4.15 | 5.56 |
| 4955 | 10 500 | 615 | 2.53 | 3.39 | 674 | 2.95 | 3.95 | 727 | 3.31 | 4.44 | 775 | 3.65 | 4.89 | 817 | 4.07 | 5.46 | 857 | 4.52 | 6.06 |
| 5190 | 11 000 | 634 | 2.79 | 3.74 | 692 | 3.22 | 4.32 | 744 | 3.61 | 4.84 | 789 | 3.99 | 5.35 | 830 | 4.44 | 5.95 | 869 | 4.91 | 6.58 |
| 5425 | 11 500 | 653 | 3.07 | 4.12 | 711 | 3.51 | 4.71 | 760 | 3.93 | 5.27 | 803 | 4.36 | 5.84 | 843 | 4.84 | 6.49 | 881 | 5.32 | 7.13 |
| 5660 | 12 000 | 674 | 3.38 | 4.53 | 729 | 3.83 | 5.13 | 776 | 4.29 | 5.75 | 818 | 4.77 | 6.39 | 857 | 5.27 | 7.06 | 894 | 5.75 | 7.71 |
| 5900 | 12 500 | 695 | 3.72 | 4.99 | 748 | 4.2 | 5.63 | 792 | 4.69 | 6.29 | 832 | 5.21 | 6.98 | 870 | 5.72 | 7.67 | 906 | 6.21 | 8.32 |
| 6130 | 13 000 | 715 | 4.1 | 5.50 | 766 | 4.61 | 6.18 | 808 | 5.14 | 6.89 | 847 | 5.68 | 7.61 | 883 | 6.21 | 8.32 | 918 | 6.7 | 8.98 |
| 6370 | 13 500 | 736 | 4.52 | 6.06 | 784 | 5.06 | 6.78 | 824 | 5.62 | 7.53 | 861 | 6.18 | 8.28 | 896 | 6.72 | 9.01 | 930 | 7.21 | 9.66 |
| 6605 | 14 000 | 757 | 4.98 | 6.68 | 801 | 5.55 | 7.44 | 839 | 6.14 | 8.23 | 875 | 6.71 | 8.99 | 909 | 7.25 | 9.72 | 943 | 7.74 | 10.38 |
| 6840 | 14 500 | 777 | 5.48 | 7.35 | 818 | 6.08 | 8.15 | 854 | 6.69 | 8.97 | 889 | 7.27 | 9.75 | 922 | 7.81 | 10.47 | 955 | 8.3 | 11.13 |
| 7075 | 15 000 | 797 | 6.02 | 8.07 | 834 | 6.66 | 8.93 | 868 | 7.28 | 9.76 | 902 | 7.86 | 10.54 | 935 | 8.4 | 11.26 | --- | --- | --- |

CONTINUED ON NEXT PAGE

BLOWER DATA

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

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

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

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

See page 17 for factory installed drive kit specifications.

MINIMUM AIR VOLUME REQUIRED FOR USE WITH OPTIONAL ELECTRIC HEAT

All units require 4955 L/s (10 500 cfm) minimum air with electric heat.

| Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | |
|------------|--------|---|------|-------|------------|------|-------|------------|------|-------|------------|------|-------|------------|------|-------|------------|------|-------|
| | | 400 (1.60) | | | 450 (1.80) | | | 500 (2.00) | | | 550 (2.20) | | | 600 (2.40) | | | 650 (2.60) | | |
| L/s | cfm | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP |
| 1890 | 4000 | 784 | 1.72 | 2.31 | 824 | 1.91 | 2.56 | 861 | 2.1 | 2.82 | 897 | 2.31 | 3.10 | 932 | 2.54 | 3.40 | --- | --- | --- |
| 2125 | 4500 | 790 | 1.86 | 2.49 | 831 | 2.07 | 2.77 | 868 | 2.28 | 3.06 | 903 | 2.5 | 3.35 | 938 | 2.73 | 3.66 | 974 | 2.99 | 4.01 |
| 2360 | 5000 | 796 | 2.01 | 2.69 | 837 | 2.24 | 3.00 | 874 | 2.46 | 3.30 | 909 | 2.69 | 3.61 | 944 | 2.94 | 3.94 | 980 | 3.21 | 4.30 |
| 2595 | 5500 | 802 | 2.18 | 2.92 | 843 | 2.42 | 3.24 | 880 | 2.66 | 3.57 | 916 | 2.9 | 3.89 | 951 | 3.15 | 4.22 | 987 | 3.43 | 4.60 |
| 2830 | 6000 | 809 | 2.36 | 3.16 | 850 | 2.62 | 3.51 | 887 | 2.87 | 3.85 | 922 | 3.12 | 4.18 | 957 | 3.38 | 4.53 | 994 | 3.66 | 4.91 |
| 3070 | 6500 | 817 | 2.56 | 3.43 | 857 | 2.83 | 3.79 | 894 | 3.1 | 4.16 | 929 | 3.35 | 4.49 | 964 | 3.62 | 4.85 | 1001 | 3.91 | 5.24 |
| 3300 | 7000 | 825 | 2.78 | 3.73 | 864 | 3.07 | 4.12 | 901 | 3.34 | 4.48 | 937 | 3.6 | 4.83 | 971 | 3.87 | 5.19 | 1008 | 4.17 | 5.59 |
| 3540 | 7500 | 833 | 3.02 | 4.05 | 872 | 3.32 | 4.45 | 909 | 3.61 | 4.84 | 945 | 3.88 | 5.20 | 979 | 4.15 | 5.56 | 1016 | 4.45 | 5.97 |
| 3775 | 8000 | 843 | 3.28 | 4.40 | 881 | 3.6 | 4.83 | 918 | 3.89 | 5.21 | 953 | 4.17 | 5.59 | 988 | 4.45 | 5.97 | 1025 | 4.75 | 6.37 |
| 4010 | 8500 | 852 | 3.56 | 4.77 | 890 | 3.89 | 5.21 | 927 | 4.2 | 5.63 | 962 | 4.49 | 6.02 | 997 | 4.77 | 6.39 | 1034 | 5.08 | 6.81 |
| 4245 | 9000 | 862 | 3.87 | 5.19 | 900 | 4.22 | 5.66 | 936 | 4.53 | 6.07 | 972 | 4.82 | 6.46 | 1007 | 5.11 | 6.85 | 1044 | 5.43 | 7.28 |
| 4480 | 9500 | 873 | 4.21 | 5.64 | 910 | 4.56 | 6.11 | 946 | 4.88 | 6.54 | 982 | 5.17 | 6.93 | 1018 | 5.47 | 7.33 | 1055 | 5.8 | 7.77 |
| 4720 | 10 000 | 884 | 4.57 | 6.13 | 921 | 4.93 | 6.61 | 957 | 5.24 | 7.02 | 992 | 5.54 | 7.43 | 1028 | 5.86 | 7.86 | 1066 | 6.2 | 8.31 |
| 4955 | 10 500 | 895 | 4.94 | 6.62 | 932 | 5.31 | 7.12 | 967 | 5.63 | 7.55 | 1003 | 5.93 | 7.95 | 1039 | 6.27 | 8.40 | 1077 | 6.63 | 8.89 |
| 5190 | 11 000 | 907 | 5.34 | 7.16 | 943 | 5.71 | 7.65 | 978 | 6.03 | 8.08 | 1013 | 6.35 | 8.51 | 1050 | 6.7 | 8.98 | 1089 | 7.08 | 9.49 |
| 5425 | 11 500 | 918 | 5.75 | 7.71 | 954 | 6.13 | 8.22 | 989 | 6.46 | 8.66 | 1025 | 6.78 | 9.09 | 1062 | 7.15 | 9.58 | 1101 | 7.55 | 10.12 |
| 5660 | 12 000 | 930 | 6.19 | 8.30 | 965 | 6.57 | 8.81 | 1000 | 6.9 | 9.25 | 1036 | 7.24 | 9.71 | 1073 | 7.62 | 10.21 | 1112 | 8.03 | 10.76 |
| 5900 | 12 500 | 941 | 6.65 | 8.91 | 976 | 7.03 | 9.42 | 1011 | 7.37 | 9.88 | 1048 | 7.72 | 10.35 | 1085 | 8.1 | 10.86 | 1124 | 8.52 | 11.42 |
| 6130 | 13 000 | 953 | 7.13 | 9.56 | 988 | 7.51 | 10.07 | 1023 | 7.85 | 10.52 | 1059 | 8.21 | 11.01 | --- | --- | --- | --- | --- | --- |
| 6370 | 13 500 | 965 | 7.64 | 10.24 | 1000 | 8.01 | 10.74 | 1035 | 8.35 | 11.19 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6605 | 14 000 | 977 | 8.16 | 10.94 | 1012 | 8.53 | 11.43 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

BLOWER DATA

FACTORY INSTALLED BELT DRIVE KIT SPECIFICATIONS

| Nominal kW | Nominal hp | Maximum kW | Maximum hp | Drive Kit Number | Rev/min Range |
|------------|------------|------------|------------|------------------|---------------|
| 3.7 | 5 | 4.3 | 5.75 | 5 | 550 - 675 |
| 3.7 | 5 | 4.3 | 5.75 | 6 | 640 - 805 |
| 3.7 | 5 | 4.3 | 5.75 | 7 | 475 - 600 |
| 3.7 | 5 | 4.3 | 5.75 | 8 | 400 - 525 |
| 5.6 | 7.5 | 6.4 | 8.63 | 3 | 595 - 730 |
| 5.6 | 7.5 | 6.4 | 8.63 | 4 | 640 - 805 |
| 7.5 | 10 | 8.6 | 11.50 | 1 | 615 - 745 |
| 7.5 | 10 | 8.6 | 11.50 | 2 | 725 - 870 |

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

FACTORY INSTALLED OPTIONS/FIELD INSTALLED ACCESSORY AIR RESISTANCE

| Air Volume | | Wet Indoor Coil | | Electric Heat | | Economizer | | Filters | | | | Horizontal Roof Curb | |
|------------|--------|-----------------|----------|---------------|----------|------------|----------|---------|----------|---------|----------|----------------------|----------|
| | | | | | | | | MERV 8 | | MERV 13 | | | |
| 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. |
| 1890 | 4000 | 10 | 0.04 | 2 | 0.01 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 10 | 0.04 |
| 2125 | 4500 | 10 | 0.04 | 2 | 0.01 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 12 | 0.05 |
| 2360 | 5000 | 12 | 0.05 | 2 | 0.01 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 15 | 0.06 |
| 2595 | 5500 | 15 | 0.06 | 5 | 0.02 | 2 | 0.01 | 0 | 0.00 | 2 | 0.01 | 17 | 0.07 |
| 2830 | 6000 | 17 | 0.07 | 5 | 0.02 | 2 | 0.01 | 0 | 0.00 | 5 | 0.02 | 20 | 0.08 |
| 3070 | 6500 | 20 | 0.08 | 5 | 0.02 | 2 | 0.01 | 2 | 0.01 | 5 | 0.02 | 22 | 0.09 |
| 3300 | 7000 | 22 | 0.09 | 7 | 0.03 | 5 | 0.02 | 2 | 0.01 | 7 | 0.03 | 25 | 0.10 |
| 3540 | 7500 | 25 | 0.10 | 7 | 0.03 | 5 | 0.02 | 2 | 0.01 | 10 | 0.04 | 27 | 0.11 |
| 3775 | 8000 | 27 | 0.11 | 7 | 0.03 | 5 | 0.02 | 2 | 0.01 | 10 | 0.04 | 32 | 0.13 |
| 4010 | 8500 | 30 | 0.12 | 10 | 0.04 | 7 | 0.03 | 2 | 0.01 | 10 | 0.04 | 37 | 0.15 |
| 4245 | 9000 | 32 | 0.13 | 10 | 0.04 | 10 | 0.04 | 2 | 0.01 | 10 | 0.04 | 42 | 0.17 |
| 4480 | 9500 | 35 | 0.14 | 12 | 0.05 | 10 | 0.04 | 5 | 0.02 | 15 | 0.06 | 47 | 0.19 |
| 4720 | 10 000 | 37 | 0.15 | 12 | 0.05 | 12 | 0.05 | 5 | 0.02 | 15 | 0.06 | 52 | 0.21 |
| 4955 | 10 500 | 40 | 0.16 | 15 | 0.06 | 15 | 0.06 | 5 | 0.02 | 15 | 0.06 | 60 | 0.24 |
| 5190 | 11 000 | 45 | 0.18 | 15 | 0.06 | 17 | 0.07 | 5 | 0.02 | 17 | 0.07 | 67 | 0.27 |
| 5425 | 11 500 | 47 | 0.19 | 17 | 0.07 | 20 | 0.08 | 5 | 0.02 | 20 | 0.08 | 75 | 0.30 |
| 5660 | 12 000 | 50 | 0.20 | 17 | 0.07 | 25 | 0.10 | 5 | 0.02 | 20 | 0.08 | 82 | 0.33 |
| 5900 | 12 500 | 52 | 0.21 | 20 | 0.08 | 27 | 0.11 | 7 | 0.03 | 25 | 0.10 | 92 | 0.37 |
| 6130 | 13 000 | 57 | 0.23 | 20 | 0.08 | 32 | 0.13 | 7 | 0.03 | 25 | 0.10 | 100 | 0.40 |
| 6370 | 13 500 | 60 | 0.24 | 22 | 0.09 | 35 | 0.14 | 7 | 0.03 | 27 | 0.11 | 110 | 0.44 |
| 6605 | 14 000 | 65 | 0.26 | 25 | 0.10 | 40 | 0.16 | 7 | 0.03 | 30 | 0.12 | 122 | 0.49 |
| 6840 | 14 500 | 67 | 0.27 | 25 | 0.10 | 45 | 0.18 | 10 | 0.04 | 32 | 0.13 | 132 | 0.53 |
| 7075 | 15 000 | 72 | 0.29 | 27 | 0.11 | 52 | 0.21 | 10 | 0.04 | 32 | 0.13 | 144 | 0.58 |

BLOWER DATA

CEILING DIFFUSER AIR RESISTANCE

| Air Volume | | Step-Down Diffuser - LARTD30/36S | | | | | | Flush Diffuser - LAFD30/36S | |
|------------|--------|----------------------------------|----------|--------------------|----------|-----------------------|----------|-----------------------------|----------|
| | | 2 Ends Open | | 1 Side/2 Ends Open | | All Ends & Sides Open | | Pa | in. w.g. |
| L/s | cfm | Pa | in. w.g. | Pa | in. w.g. | Pa | in. w.g. | Pa | in. w.g. |
| 3540 | 7500 | 92 | 0.37 | 77 | 0.31 | 62 | 0.25 | 72 | 0.29 |
| 3775 | 8000 | 104 | 0.42 | 90 | 0.36 | 72 | 0.29 | 85 | 0.34 |
| 4010 | 8500 | 119 | 0.48 | 102 | 0.41 | 85 | 0.34 | 97 | 0.39 |
| 4245 | 9000 | 137 | 0.55 | 117 | 0.47 | 97 | 0.39 | 109 | 0.44 |
| 4485 | 9500 | 154 | 0.62 | 132 | 0.53 | 112 | 0.45 | 127 | 0.51 |
| 4720 | 10000 | 174 | 0.70 | 149 | 0.60 | 127 | 0.51 | 142 | 0.57 |
| 4955 | 10 500 | 194 | 0.78 | 169 | 0.68 | 144 | 0.58 | 162 | 0.65 |
| 5190 | 11 000 | 216 | 0.87 | 190 | 0.76 | 162 | 0.65 | 179 | 0.72 |
| 5425 | 11 500 | 241 | 0.97 | 211 | 0.85 | 182 | 0.73 | 201 | 0.81 |
| 5665 | 12 000 | 269 | 1.08 | 234 | 0.94 | 204 | 0.82 | 223 | 0.90 |
| 5900 | 12 500 | 296 | 1.19 | 259 | 1.04 | 226 | 0.91 | 246 | 0.99 |
| 6135 | 13 000 | 323 | 1.30 | 286 | 1.15 | 249 | 1.00 | 274 | 1.10 |
| 6370 | 13 500 | 356 | 1.43 | 313 | 1.26 | 374 | 1.10 | 298 | 1.20 |
| 6605 | 14 000 | 388 | 1.56 | 343 | 1.38 | 298 | 1.20 | 326 | 1.31 |
| 6845 | 14 500 | 420 | 1.69 | 373 | 1.50 | 326 | 1.31 | 356 | 1.43 |
| 7080 | 15 000 | 457 | 1.84 | 405 | 1.63 | 356 | 1.43 | 388 | 1.56 |

CEILING DIFFUSER AIR THROW DATA

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

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

POWER EXHAUST FAN PERFORMANCE - STANDARD STATIC

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

ELECTRICAL/ELECTRIC HEAT DATA

| | | LCH300H4B | | | LCH360H4B | | |
|--|---|-----------|------|------|-----------|------|------|
| ¹ Voltage - 50Hz 3 Phase with neutral | | 380/420V | | | 380/420V | | |
| Compressor 1 | Rated Load Amps | 10.6 | | | 12.2 | | |
| | Locked Rotor Amps | 74 | | | 101 | | |
| Compressor 2 | Rated Load Amps | 10.6 | | | 12.2 | | |
| | Locked Rotor Amps | 74 | | | 101 | | |
| Compressor 3 | Rated Load Amps | 10.6 | | | 12.2 | | |
| | Locked Rotor Amps | 74 | | | 101 | | |
| Compressor 4 | Rated Load Amps | 10.6 | | | 12.2 | | |
| | Locked Rotor Amps | 74 | | | 101 | | |
| Outdoor Fan Motors (6) | Full Load Amps | 1.3 | | | 1.3 | | |
| | (total) | (7.8) | | | (7.8) | | |
| Standard Power Exhaust (3) 0.25 kW | Full Load Amps | 1.3 | | | 1.3 | | |
| | (total) | (3.9) | | | (3.9) | | |
| Indoor Blower Motor | kW | 3.7 | 5.6 | 7.5 | 3.7 | 5.6 | 7.5 |
| | Full Load Amps | 8.2 | 11.7 | 16.3 | 8.2 | 11.7 | 16.3 |
| ² Maximum Overcurrent Protection | Unit Only | 70 | 70 | 80 | 80 | 80 | 90 |
| | With (3) 0.25 kW Standard Power Exhaust | 70 | 80 | 90 | 80 | 80 | 90 |
| ³ Minimum Circuit Ampacity | Unit Only | 62 | 65 | 71 | 68 | 72 | 77 |
| | With (3) 0.25 kW Standard Power Exhaust | 65 | 69 | 75 | 72 | 76 | 81 |

ELECTRIC HEAT DATA

| Electric Heat Voltage | | | | 420V | 420V | 420V | 420V | 420V | 420V |
|---|---|---------|--|------|------|------|------|------|------|
| ² Maximum Overcurrent Protection | Unit+ | 23 kW | | 70 | 70 | 80 | 80 | 80 | 90 |
| | ⁴ Electric Heat | 34.5 kW | | 70 | 80 | 80 | 80 | 80 | 90 |
| | | 45.9 kW | | 80 | 80 | 90 | 80 | 80 | 90 |
| | | 91.9 kW | | 150 | 150 | 150 | 150 | 150 | 150 |
| ³ Minimum Circuit Ampacity | Unit+ | 23 kW | | 62 | 65 | 71 | 68 | 72 | 77 |
| | ⁴ Electric Heat | 34.5 kW | | 70 | 74 | 80 | 70 | 74 | 80 |
| | | 45.9 kW | | 74 | 78 | 84 | 74 | 78 | 84 |
| | | 91.9 kW | | 137 | 141 | 147 | 137 | 141 | 147 |
| ² Maximum Overcurrent Protection | Unit+ | 23 kW | | 70 | 80 | 90 | 80 | 80 | 90 |
| | ⁴ Electric Heat and Standard Power Exhaust (3) 0.25 kW | 34.5 kW | | 80 | 80 | 90 | 80 | 80 | 90 |
| | | 45.9 kW | | 80 | 90 | 90 | 80 | 90 | 90 |
| | | 91.9 kW | | 150 | 150 | 175 | 150 | 150 | 175 |
| ³ Minimum Circuit Ampacity | Unit+ | 23 kW | | 65 | 69 | 75 | 72 | 76 | 81 |
| | ⁴ Electric Heat and Standard Power Exhaust (3) 0.25 kW | 34.5 kW | | 75 | 79 | 85 | 75 | 79 | 85 |
| | | 45.9 kW | | 79 | 83 | 89 | 79 | 83 | 89 |
| | | 91.9 kW | | 142 | 146 | 152 | 142 | 146 | 152 |

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

² Heating, Air Conditioning, Refrigeration (HACR) type breaker or fuse.

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

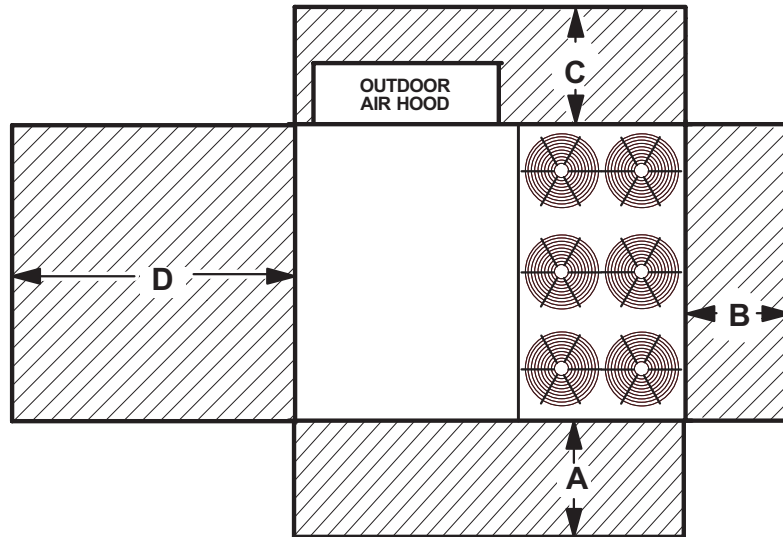
⁴ Nominal kW based on 420V-3ph-50hz.

ELECTRIC HEAT CAPACITIES

| Volts Input | 23 kW | | | 34.5 kW | | | 45.9 kW | | | 91.9 kW | | |
|-------------|----------|-------------|---------------|----------|-------------|---------------|----------|-------------|---------------|----------|-------------|---------------|
| | kW Input | Btuh Output | No. of Stages | kW Input | Btuh Output | No. of Stages | kW Input | Btuh Output | No. of Stages | kW Input | Btuh Output | No. of Stages |
| 380 | 18.8 | 64 200 | 1 | 28.2 | 93 600 | 2 | 37.6 | 128 400 | 2 | 75.2 | 236 700 | 2 |
| 400 | 20.8 | 71 100 | 1 | 31.2 | 106 700 | 2 | 41.6 | 142 200 | 2 | 83.4 | 261 000 | 2 |
| 420 | 23.0 | 78 400 | 1 | 34.4 | 117 600 | 2 | 45.9 | 156 800 | 2 | 91.9 | 313 700 | 2 |

UNIT CLEARANCES

Unit With Economizer



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

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

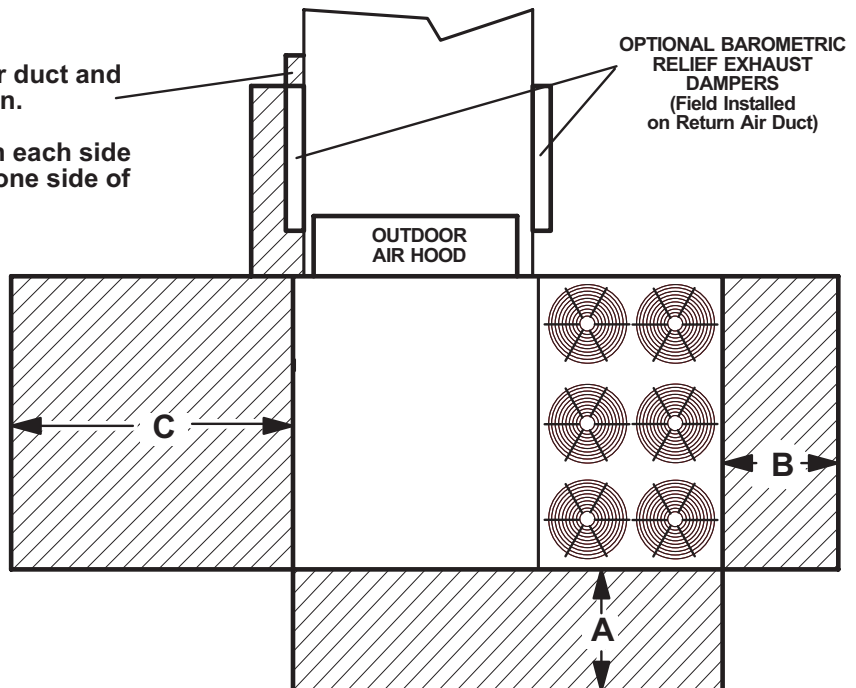
¹ **Service Clearance** - Required for removal of serviceable parts.

Minimum Operation Clearance - Required clearance for proper unit operation.

Unit With Horizontal Barometric Relief Dampers

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

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



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

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

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

Minimum Operation Clearance - Required clearance for proper unit operation.

OUTDOOR SOUND DATA

| Unit Model Number | Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts Center Frequency - HZ | | | | | | 1 Sound Rating Number (dBA) | |
|----------------------|--|-----|-----|------|------|------|--------------------------------|------|
| | 125 | 250 | 500 | 1000 | 2000 | 4000 | | 8000 |
| 300/360 | 84 | 85 | 90 | 90 | 85 | 80 | 72 | 95 |

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

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

WEIGHT DATA

| Model Number | Net | | Shipping | | UNIT |
|---------------|---------------|------|----------|------|------|
| | kg | lbs. | kg | lbs. | |
| | 300 Base Unit | 1359 | 2997 | 1455 | 3207 |
| 300 Max. Unit | 1546 | 3409 | 1642 | 3619 | |
| 360 Base Unit | 1359 | 2997 | 1455 | 3207 | |
| 360 Max. Unit | 1546 | 3409 | 1642 | 3619 | |

WEIGHT DATA

OPTIONS / ACCESSORIES

| Description | Shipping Weight | |
|---|-----------------|------|
| | kg | lbs. |
| ECONOMIZER / OUTDOOR AIR / EXHAUST | | |
| Economizer | 54 | 119 |
| Barometric Relief | | |
| Downflow Barometric Relief Dampers | 20 | 45 |
| Horizontal Barometric Relief Dampers | 9 | 20 |
| Outdoor Air Dampers | | |
| Damper Section (downflow) Motorized | 33 | 72 |
| Damper Section (downflow) Manual | 31 | 68 |
| Outdoor Air Hood (downflow) | 34 | 76 |
| POWER EXHAUST | | |
| | 45 | 99 |
| ELECTRIC HEAT | | |
| 23 kW | 27 | 59 |
| 34.5 kW | 34 | 76 |
| 45.9 kW | 34 | 76 |
| 91.9 kW | 44 | 98 |
| ROOF CURBS | | |
| Hybrid Roof Curbs, Downflow | | |
| 356 mm height | 52 | 115 |
| 457 mm height | 64 | 140 |
| 610 mm height | 77 | 170 |
| Standard Curbs, Horizontal | | |
| 356 mm height | 202 | 445 |
| 610 mm height | 329 | 725 |
| CEILING DIFFUSERS | | |
| Step-Down LARTD30/36S | 625 | 283 |
| Flush LAFD30/36S | 625 | 283 |
| Transitions LASRT30/36 | 39 | 85 |
| PACKAGING | | |
| LTL Packaging (less than truck load) | 136 | 300 |

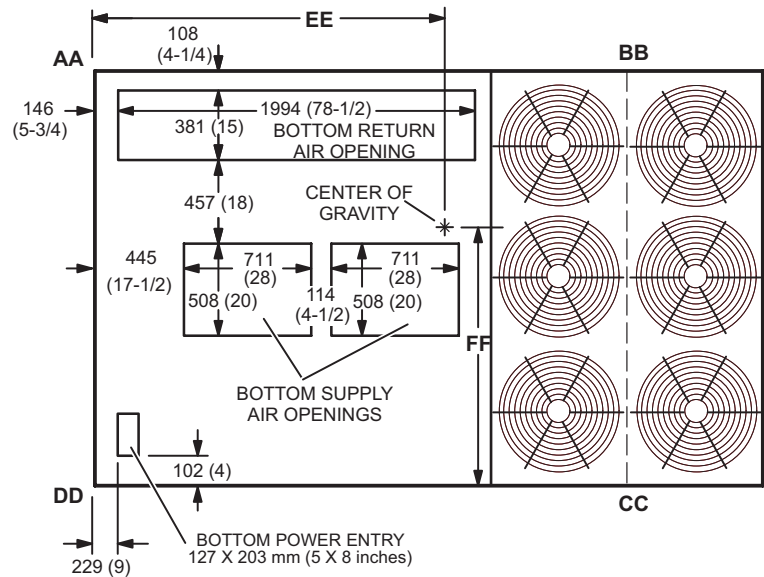
DIMENSIONS

UNIT

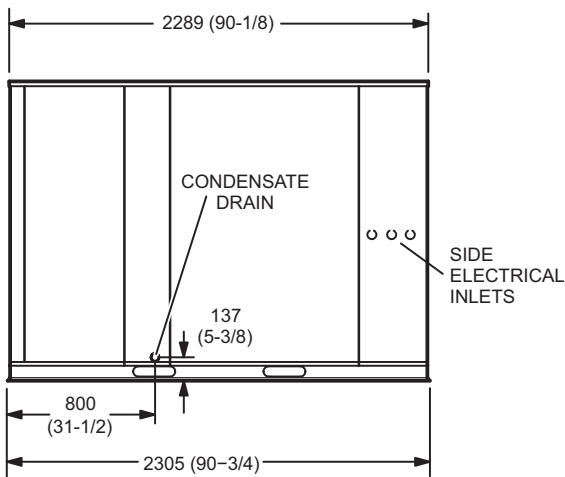
| Model No. | CORNER WEIGHTS | | | | | | | | CENTER OF GRAVITY | | | |
|------------------|----------------|------|-----|------|-----|------|-----|------|-------------------|-----|-----|-----|
| | AA | | BB | | CC | | DD | | EE | | FF | |
| | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | mm | in. | mm | in. |
| LCH300 Base Unit | 277 | 610 | 278 | 612 | 399 | 880 | 406 | 895 | 1524 | 60 | 940 | 37 |
| LCH300 Max. Unit | 315 | 693 | 316 | 696 | 454 | 1001 | 462 | 1018 | 1524 | 60 | 940 | 37 |
| LCH360 Base Unit | 277 | 610 | 278 | 612 | 399 | 880 | 406 | 895 | 1524 | 60 | 940 | 37 |
| LCH360 Max. Unit | 315 | 693 | 316 | 696 | 454 | 1001 | 462 | 1018 | 1524 | 60 | 940 | 37 |

Base Unit - The unit with NO INTERNAL OPTIONS.

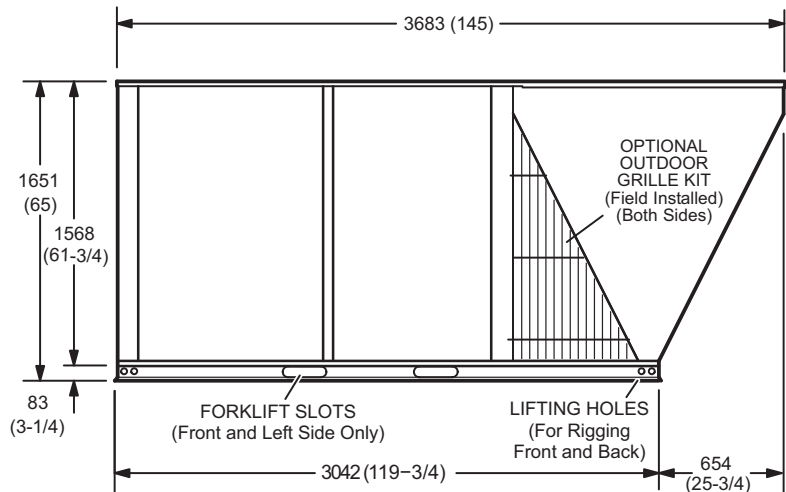
Max. Unit - The unit with ALL INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit or high static power exhaust.



TOP VIEW

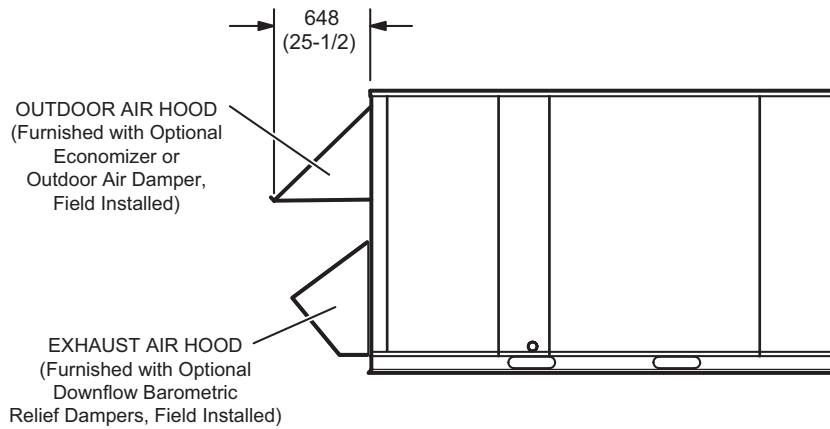


END VIEW



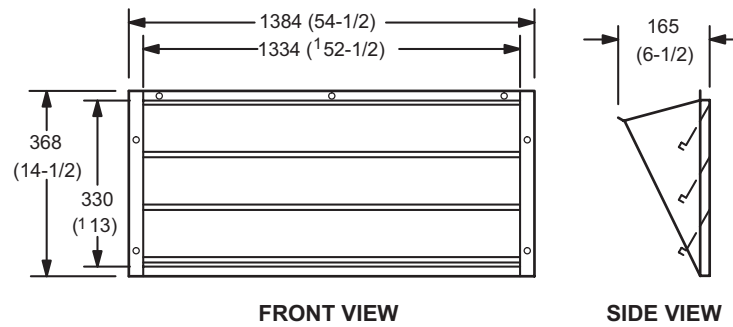
SIDE VIEW

OUTDOOR AIR HOOD DETAIL



OPTIONAL HORIZONTAL BAROMETRIC RELIEF DAMPERS WITH HOOD

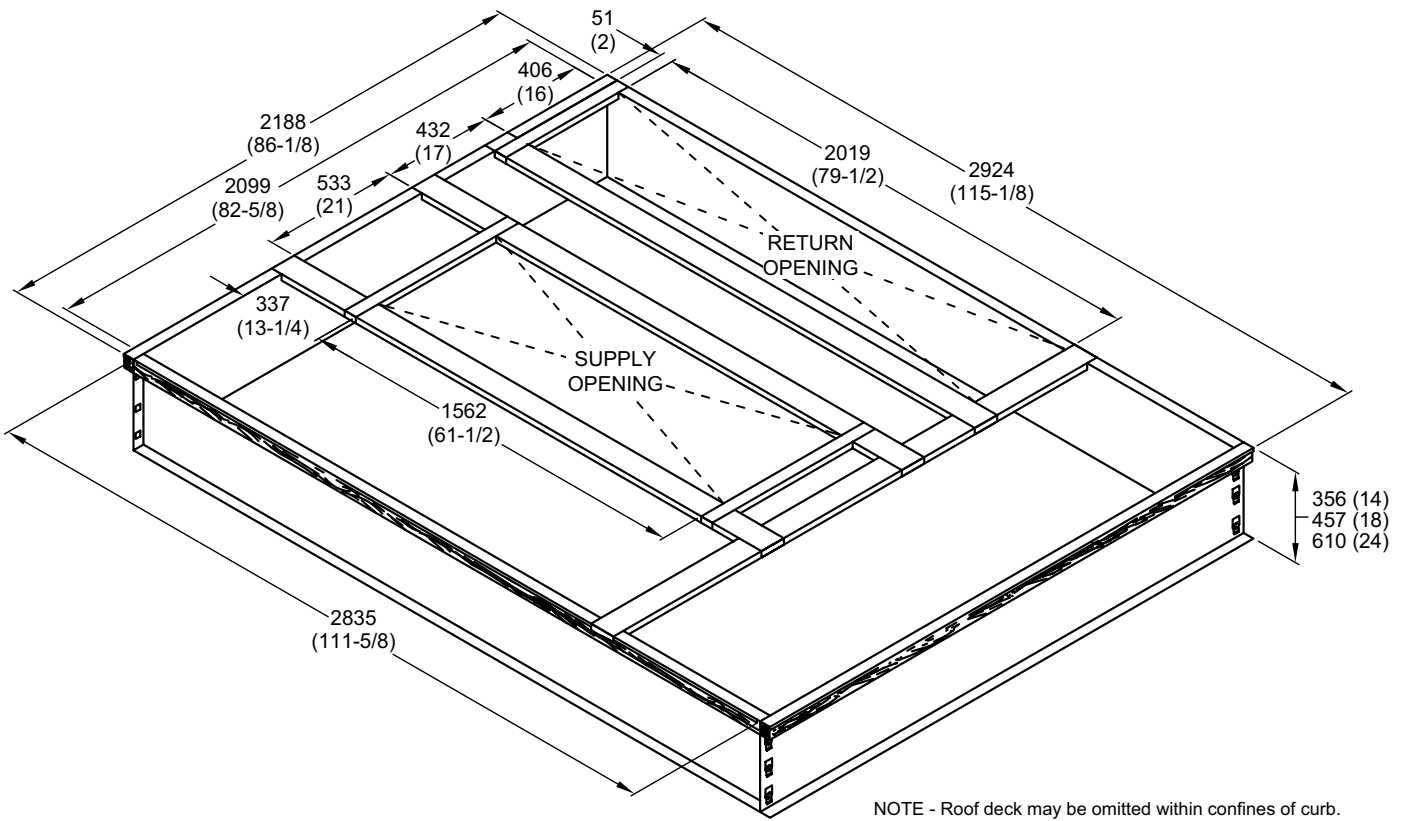
(Field installed in horizontal return air duct adjacent to unit)



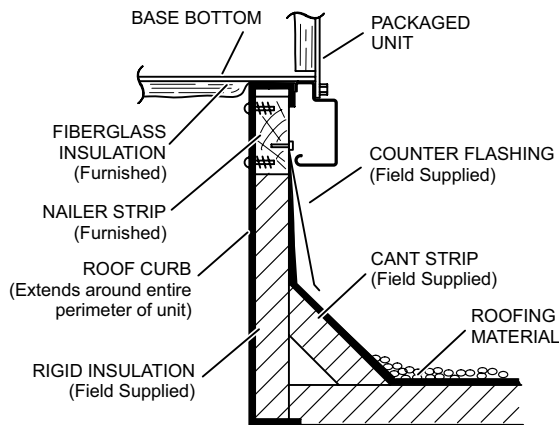
NOTE - Two furnished per order no.

¹ NOTE - Opening size required in return air duct.

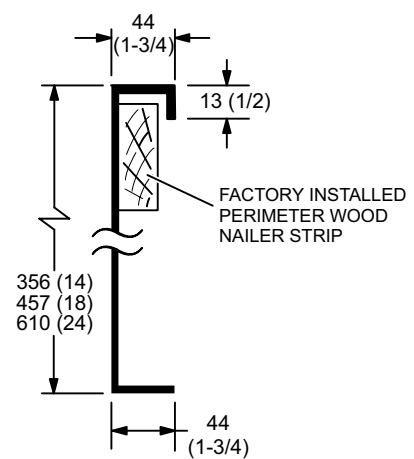
HYBRID ROOF CURBS - DOUBLE DUCT OPENING



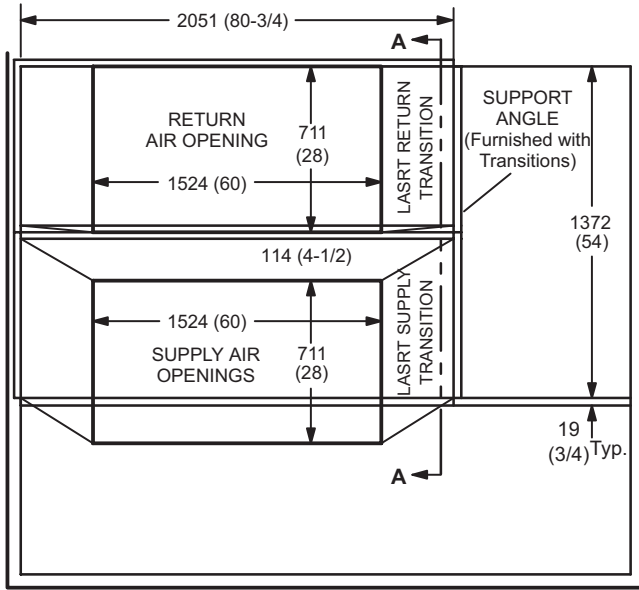
TYPICAL FLASHING DETAIL FOR ROOF CURB



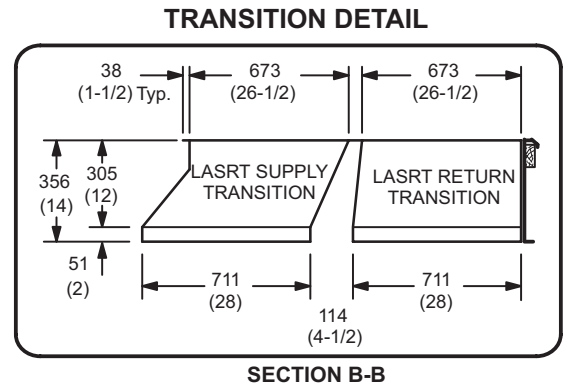
DETAIL ROOF CURB



ROOF CURBS WITH SUPPLY & RETURN AIR TRANSITIONS FOR CEILING DIFFUSERS

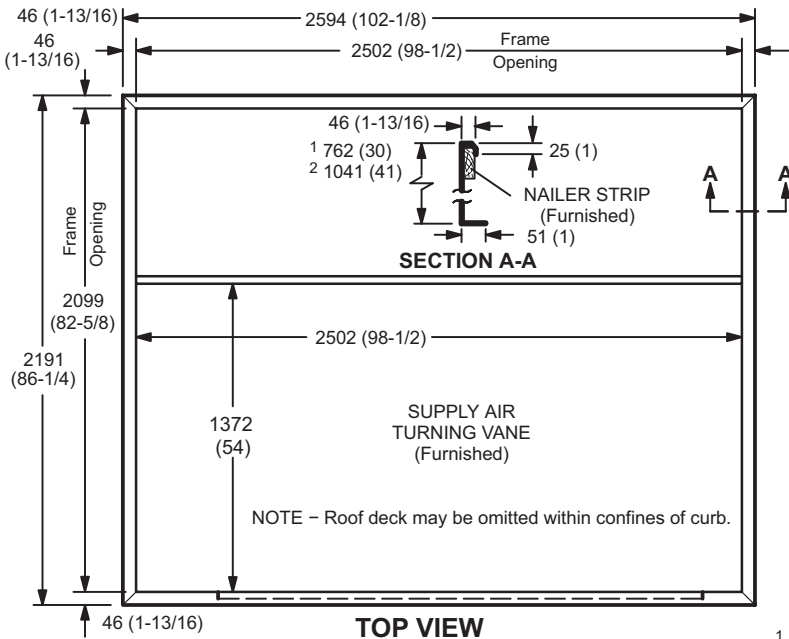


TOP VIEW



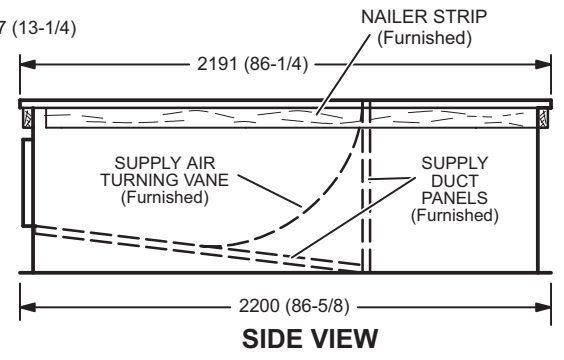
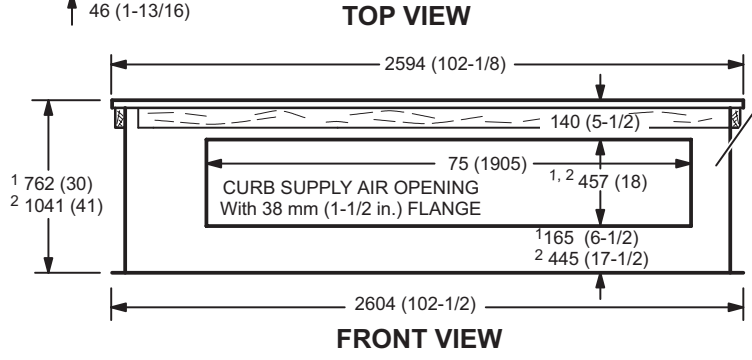
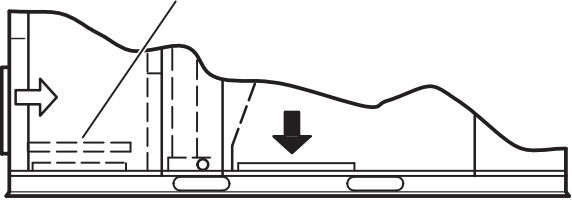
SECTION B-B

HORIZONTAL ROOF CURBS – Requires Optional Horizontal Return Air Panel Kit



NOTE - 762 mm (30 in.) height Curb is designed for horizontal discharge when unit is mounted on a slab.
1041 mm (41 in.) height Curb is designed for horizontal discharge when unit is mounted on a rooftop.

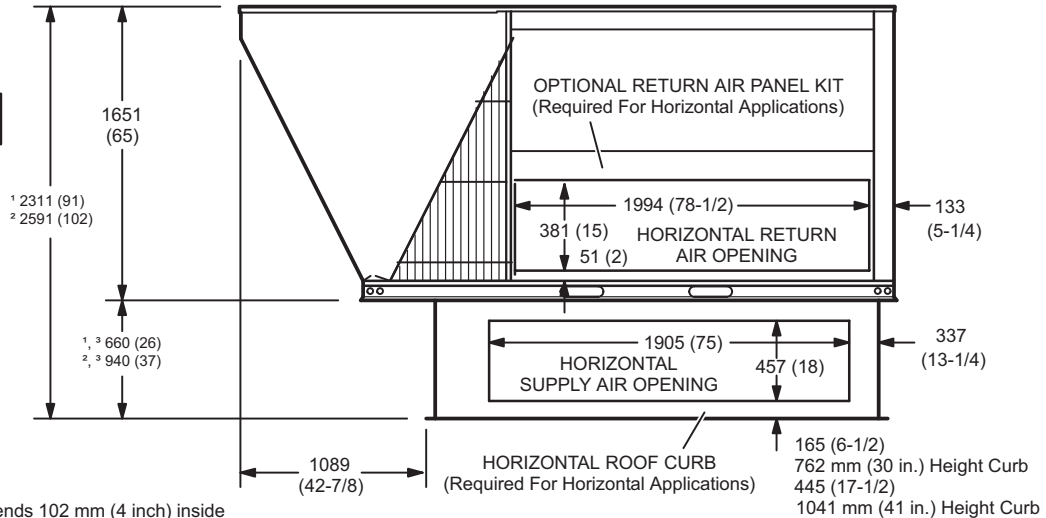
PANEL TO COVER RETURN AIR OPENING IN BOTTOM OF UNIT (Furnished With Optional Horizontal Return Air Panel Kit)



¹ Slab Applications ² Rooftop Applications

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

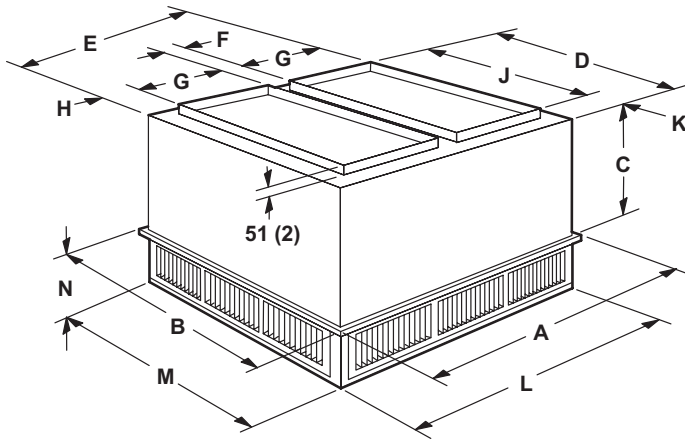
¹ Slab Applications
² Rooftop Applications



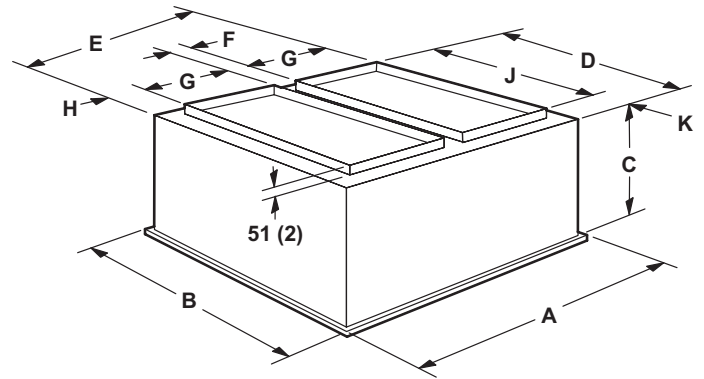
³ NOTE – Top of Curb extends 102 mm (4 inch) inside bottom of unit base. See Typical Flashing Detail.

COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER



FLUSH CEILING DIFFUSER



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

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

REVISIONS

| Sections | Description of Change |
|---------------------|---|
| Options/Accessories | Catalog number revised for: Fresh Air Tempering Smoke Detector Removed: 68.9 kW Electric Heat |



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