

**PRODUCT SPECIFICATIONS**

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**SMARTWIRE™ SYSTEM**



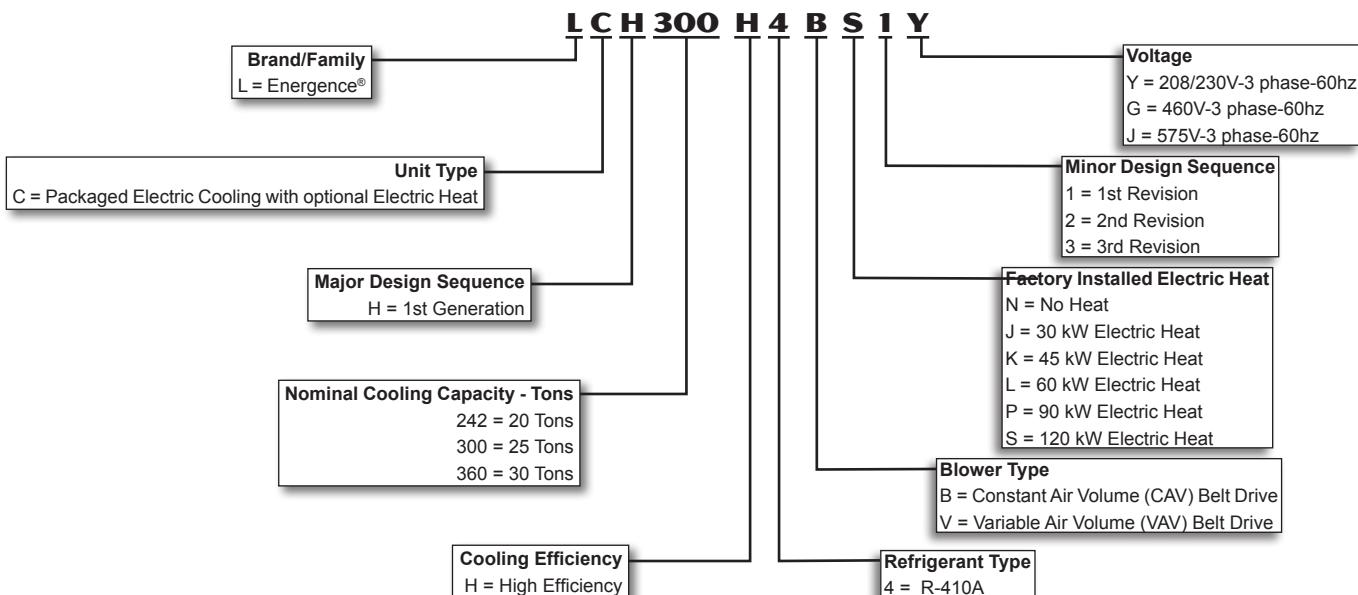
**L Connection®**  
NET WORK

**ASHRAE 90.1  
COMPLIANT**

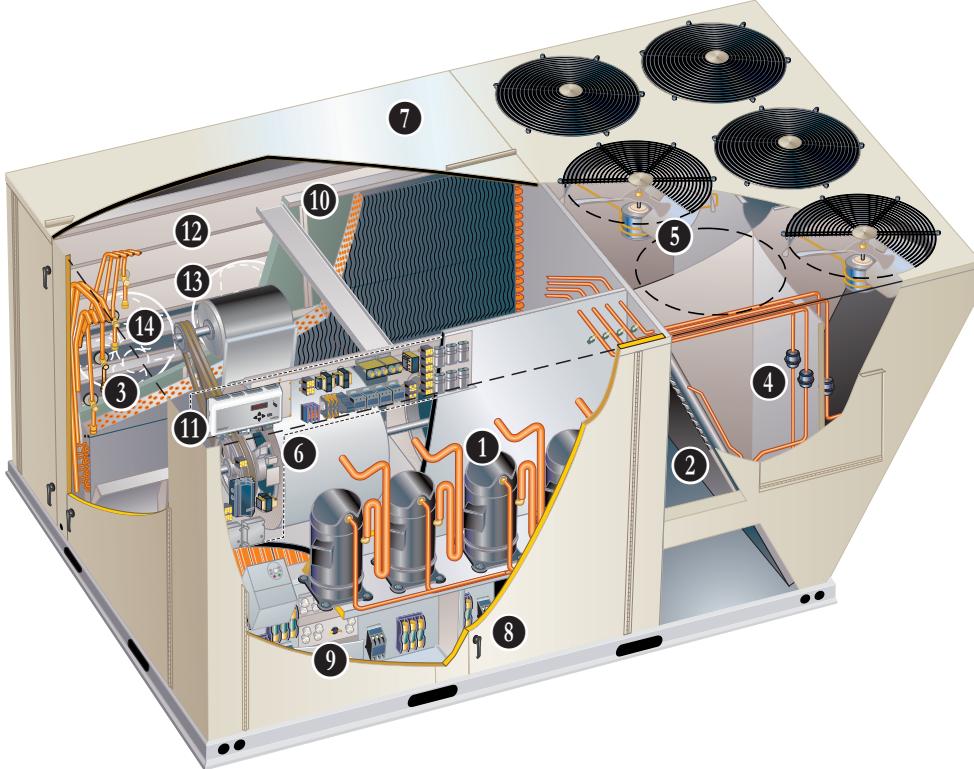


**20 to 30 Tons**

**Net Cooling Capacity - 238,000 to 354,000 Btuh  
Optional Electric Heat - 30 to 120 kW**

**MODEL NUMBER IDENTIFICATION**

## FEATURES AND BENEFITS



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 HVAC product with the lowest total cost of ownership.

### Energence® rooftop units feature:

- **Hinged Access Panels** - Provide quick access to components and protect panels and roof from damage during servicing.
- **Isolated Compressor Compartment** - Allows performance check during normal compressor operation without disrupting airflow.
- **Corrosion-Resistant Removable Drain Pan** - Provides improved serviceability.
- **Thermostatic Expansion Valves** - Provide peak cooling performance across the entire application range.
- **Scroll Compressors** - Standard on all units for reliable, long-term operation.
- **Lennox' Environ™ Coil System** - Smaller, lighter condenser coil.
- **Constant Air Volume (CAV) or Variable Air Volume (VAV) Blower Option** - Allows constant or variable air delivery.
- **Auto-Tensioner for Blower Belt** - Factory option ensures blower is delivering the proper airflow for comfort, while maximizing efficiency and belt life.
- **MERV 13 Filters** - Available as factory or field option, provide an enhanced level of indoor air quality, and can help the building qualify for additional LEED credits.
- **Foil-Faced Insulation** - Insulation on all internal surfaces that have contact with airflow helps minimize airborne fibers and improve IAQ.
- **Common Components** - Many maintenance items are standard throughout the entire product line, reducing the need to carry different parts to the job or maintain in inventory.

### Prodigy® Control System

Standard on every Energence® rooftop unit, the new Prodigy® unit controller is the heart of the Lennox® controls offering. The intuitive user interface makes setup, troubleshooting and service easier than ever. Each unit tracks the runtime of every major component and records the date and time when service or maintenance is performed.



### SmartWire™ System

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

## FEATURES AND BENEFITS

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### APPROVALS

242 models are AHRI Certified to AHRI Standard 340/360-2007.

300 and 360 models are tested at conditions included in AHRI Standard 340/360-2007.

ETL listed.

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

All models are ASHRAE 90.1-2010 energy efficiency compliant and meet or exceed requirements of Section 6.8.

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

The ENERGY STAR® Partner of the Year Award signifies that Lennox has made outstanding contributions to design energy efficient units that will lower energy bills, while meeting industry standards for comfort and indoor air quality. Lennox was the first HVAC manufacturer to win this award and has been a four-time recipient since 2003.

ISO 9001 Registered Manufacturing Quality System.

### WARRANTY

Limited five years on compressors.

Limited three years on the Lennox' Environ™ Coil System.

Limited three years on Prodigy® Unit Controller.

Limited five years Optional High Performance Economizers.

Limited one year all other covered components.

### COOLING SYSTEM

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

System can operate from 0°F to 125°F without any additional controls.



#### R-410A Refrigerant

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

#### 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.

#### 2 Lennox' Environ™ Coil System

Condenser coil features lightweight, all aluminum brazed fin construction.

Constructed of three components: a flat extrusion tube, fins in-between the flat extrusion tube and two refrigerant manifolds.



Environ™ System Features:

- Improved heat transfer performance due to high primary surface area (flat tubes) versus secondary surface (fins).
- Smaller internal volume (reduced refrigerant charge).
- High durability (all aluminum construction).
- Fewer brazed joints.
- Compact design (reduces unit weight).
- Easy maintenance/cleaning.

Face split design.

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

Angled design in cabinet helps protect coil from possible contact or hail damage.

#### Evaporator Coil

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

Constant air volume (CAV) 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.

Variable air volume (VAV) models have row-split evaporator coils.

## FEATURES AND BENEFITS

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

#### **3 Thermal Expansion Valves**

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

#### **Low Pressure Switches**

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

#### **Condensate Drain Pan**

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

Side drain connections.

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**

PVC coated fan guard furnished.

### **Required Selections**

#### **Cooling Capacity**

Specify nominal cooling capacity of the unit

### **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 CAV units (single zone or bypass zoning control). Automatically furnished with all Variable Air Volume (VAV) units. 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 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.

## **6 BLOWER**

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

#### **Motor**

Overload protected, equipped with ball bearings.

Belt drive motors are offered on all models and are available in several different sizes to maximize air performance.

#### **Motor Efficiency**

All blower motors 5 hp and above meet minimum energy efficiency standards in accordance with the Energy Independence and Security Act (EISA).of 2007.

### **Supply Air Blower**

Forward curved blades, double inlet, blower wheel is statically and dynamically balanced. Belt drive motors with adjustable pulley for speed change on CAV units..

Blower assembly slides out of unit for servicing.

Grease fittings furnished.

### **Required Selections**

Specify Constant Air Volume (CAV) or Variable Air Volume (VAV). Order Standard or High Efficiency Blower motor (See Blower Data Table for specifications).

*NOTE - 575V VAV models are only available with high efficiency blower motors.*

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.

##### **Supply Static Transducer**

Transducer sends information to the Prodigy® Unit Controller to control VFD blower speed.

Automatically furnished with all VAV units. Transducer is shipped with the unit for remote field installation in the supply duct.

##### **Manual Supply VFD Blower Bypass Control**

Allows variable air volume (VAV) unit to operate as a constant air volume (CAV) unit in case of variable frequency drive (VFD) failure.

*NOTE - Bypass control is a manual operation. All supply air duct registers must be opened manually.*

#### **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.

## FEATURES AND BENEFITS

### CABINET

#### 7 Construction

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

Base rails have rigging holes.

Three sides of the base rail have forklift slots.

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

#### Airflow Choice

Units are available in downflow (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 downflow configured unit to horizontal air flow.

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

#### Insulation

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

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

#### 8 Hinged Access Panels

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

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

### 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

#### Field Installed

##### Combination Coil/Hail Guards

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

##### 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.

## FEATURES AND BENEFITS

### ELECTRICAL

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

#### **SmartWire™ System**

Advanced wiring connectors are keyed and color-coded to prevent miswiring. Wire coloring scheme is standardized across all models. Each connection is intuitively labeled to make troubleshooting and servicing quick and easy.

#### **Electrical Plugs**

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

### **Required Selections**

#### **Voltage Choice**

Specify when ordering base unit.

### **Options/Accessories**

#### Factory Installed

#### **Circuit Breakers**

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

#### **Phase/Voltage Detection**

Phase detection monitors power supply to assure phase is correct at unit start-up. If phase is incorrect, the unit will not start and an alarm code is reported to the unit controller. Protects unit from being started with incorrect phasing which could lead to issues such as compressors running backwards.

Voltage detection monitors power supply voltage to assure proper voltage. If voltage is not correct (over/under voltage conditions) the unit will not start and an alarm code is reported to the unit controller.

#### Factory or Field Installed

#### **Disconnect Switch**

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

### **⑨ Electric Heat**

Helix wound nichrome elements, individual element limit controls, wiring harness. Unit fuse block is furnished as standard. See Options / Accessories tables for ordering information.

#### **GFI Service Outlets (2)**

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

#### Field Installed

#### **GFI Weatherproof Cover**

Single-gang cover.

Heavy-duty UV-resistant polycarbonate case construction.

Hinged base cover with gasket.

## **INDOOR AIR QUALITY**

### **⑩ Air Filters**

Disposable 2 inch filters furnished as standard.

### **Options/Accessories**

#### Factory Installed

#### **Healthy Climate® UVC Germicidal Light Kit**



Germicidal lamps emit ultra-violet (UV-C) energy, which has been proven to be effective in reducing microbes such as viruses, bacteria, yeasts, and molds. This process either destroys the organism or controls its ability to reproduce.

UV-C energy greatly reduces the growth and proliferation of mold and other bioaerosols (bacteria and viruses) on illuminated surfaces (particularly coil and drain pan).

Lamps are field installed in the blower/evaporator coil section.

All necessary hardware for installation is included.

Lamps operate on 110/230V, single phase power supply. Step-down transformer is furnished with lamps when used with 460V and 575V rooftop units.

Approved by ETL.

### 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 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.

#### Field Installed

#### **Indoor Air Quality (CO<sub>2</sub>) Sensors**

Monitors CO<sub>2</sub> levels, reports to the Prodigy® Unit Controller which adjusts economizer dampers as needed.

## PRODIGY® CONTROL SYSTEM

### ① PRODIGY® UNIT CONTROLLER



The Prodigy® Unit Controller is a microprocessor-based control board that provides flexible control of all unit functions.

#### Features:

**Scrolling Display** - Scrolls full text instead of numerical codes.

**Push Buttons** - Simplified navigation during setup and diagnostics.

**Guided Setup Procedure** - Insures proper installation and setup of the rooftop unit.

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

**USB Port** - Easily download and transfer unit information via a USB flash drive and also interface with Lennox Unit Controller Software.



**Self Test Mode** - Confirm proper component and system operation.

**Time Clock with Run-time Information**

#### Built-In Functions Include:

**Blower Air Delivery Options**

**Adjustable Blower On/Off Delay**

**Built-in Control Parameter Defaults**

**Compressor Time-Off Delay**

**DDC Compatible**

**Dirty Filter Switch Input**

**Discharge Air Temperature Control**

**Display/Sensor Readout**

**Economizer Control Options** - See *Economizer / Outdoor Air / Exhaust Options*.

**Fresh Air Tempering**

**Extensive Unit Diagnostics** - Over 100 diagnostic and status messages in English.

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

**Permanent Diagnostic Code Storage**

**Field Changeable Control Setpoints** - Over 200 different control setpoints.

**Indoor Air Quality Input** - Demand Control Ventilation ready

**Low Ambient Controls** - Cooling operation down to 0°F.

**Gas Valve Time Delay Between First and Second Stage**

**Minimum Compressor Run Time**

**Network Capable** - Can be daisy chained to other units or controls.

**Night Setback Mode**

**Return Air Temperature Limit Control**

**Safety Switch Input** - Allows Controller to respond to a external safety switch trip.

**Service Relay Output**

**Smoke Alarm Mode** - Four choices.

**Staging** - up to 2 heat / 2 cool with standard Prodigy® unit controller. Up to 2 heat / 4 cool with add-on control board.

**"Strike Three" Protection**

**Gas Reheat Control** - Simultaneous heating and cooling operation for controlling humidity for process air applications such as supermarkets.

**Thermostat Bounce Delay**

**Warm Up Mode Delay**

**LED Indicators**

**PC Interface** - For use with PC with optional Unit Controller software.

**VAV Control**

**Zone Sensor Operation** - Controls zone temperature.

#### Options / Accessories

##### Factory or Field Installed

**Blower Proving Switch**

Monitors blower operation, shuts down unit if blower fails.

**Dirty Filter Switch**

Senses static pressure increase indicating dirty filter condition.

NOTE - Prodigy® Control System features shown vary with the type of rooftop unit the control is installed in.

NOTE - See separate Prodigy® Control System Product Specifications Bulletin for additional information.

#### Controls Options

##### Factory or Field Installed

**Fresh Air Tempering**

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

**Smoke Detector**

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

##### Interoperability via BACnet® or LonTalk® Protocols

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

#### Commercial Control Systems

##### L Connection® Network Control System

Complete building automation control system for single or multi-zone applications. Options include local interface, software for local or remote communication, and hardware for networking other control functions. See L Connection® Network Control System Product Specifications Bulletin for details.

**Aftermarket DDC**

Novar® Unit Controller and options.

**Thermostats**

Control system and thermostat options. Aftermarket unit controller options.

**Field Installed**

**Humidity Sensor Kit**

Humidity sensor required with Supermarket reheat field selectable option.

## OPTIONS / ACCESSORIES

### 12 ECONOMIZER OPTIONS

Economizer operation is set and controlled by the Prodigy® Unit Controller.

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

All Energence® rooftop units are equipped with factory installed CEC Title 24 approved sensors for outside, return and discharge air temperature monitoring.

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

#### Factory or Field Installed

##### **Economizer Features**

##### **(Standard and High Efficiency)**

Outdoor air hoods for economizer dampers furnished.

Outdoor Air Hood is included when economizer is factory installed and is furnished with economizer when ordered for field installation.

##### **Standard Economizer Features (Not for Title 24)**

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.

*NOTE: The Free Cooling default setting for outdoor air temperature sensor is 55°F.*

##### **High Performance Economizer Features**

Approved for California Title 24 building standards.

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

ASHRAE 90.1-2010 compliant.

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 and flexible stainless steel jamb seals to minimize air leakage.

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

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

*Refer to Installation Instructions for complete setup information.*

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

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

*In Offset Differential Sensible Control mode, the economizer is enabled if the temperature differential (offset) between outdoor air and return air reaches the configured setpoint.*

*In Single Sensible Control mode, the economizer is enabled when outdoor air temperature falls below the configured setpoint.*

##### **Global Control**

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

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

#### Factory or Field Installed

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

##### **(Not for Title 24)**

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

##### **Differential Enthalpy Control (Not for Title 24)**

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

#### Factory Installed

##### **Outdoor Air CFM Control**

Maintains constant outdoor air CFM levels for VAV units with variable frequency drives on the supply fan and varying unit airflows. Using information from a velocity sensor located in the units' outdoor air section, the Prodigy® Unit Controller changes the economizer position to help minimize the effect of supply fan speed changes on outdoor air CFM levels. Setpoint for outdoor air CFM is established by field testing.

*NOTE - Not available with Demand Control Ventilation (CO<sub>2</sub> Sensor).*

## OPTIONS / ACCESSORIES

### EXHAUST OPTIONS

#### Downflow Barometric Relief Dampers

(13) Allow relief of excess air, aluminum blade dampers prevent blow back and outdoor air infiltration during off cycle, bird screen furnished.

Hood for downflow barometric relief dampers is factory installed when dampers are factory installed with economizer. Hood is furnished with dampers when ordered for field installation.

#### Factory or Field Installed

#### 14 Standard Static Power Exhaust Fans

Three, 1/3 hp motors with 20 in., five blade propeller-type fans with a total power input of 1125 Watts and a total air volume of 12,800 cfm at 0 in. w.g.

Motor is inherently protected and enclosed for maximum protection from weather, dust and corrosion. 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 when outdoor air dampers are 50% open (adjustable), motor is overload protected, steel cabinet and hood painted to match unit, requires optional Downflow Economizer Barometric Relief Dampers. See Standard Static Power Exhaust Blower Tables.

#### Field Installed

#### High Static Power Exhaust Fans

Choice of 50% (two, 2 hp motors) or 100% (three, 2 hp motors) centrifugal-type power exhaust. Overload and sub-fuse protected, equipped with ball bearings.

Forward curved blades, blower wheel is statically and dynamically balanced. Constant volume high static power exhaust fans have adjustable pulleys for speed adjustments and are controlled by damper position.

Variable air volume units (with variable frequency drive) have 100% capacity and can be ordered with an optional VFD bypass. Fans feature solid-state analog pressure transducer control which senses differential pressure between conditioned space and outdoor air to regulate fan speed. See High Static Power Exhaust Blower Tables.

*NOTE - High Static Power Exhaust is field installed but must be ordered at the same time as the rooftop unit so the unit can be factory configured for this option.*

#### Power Exhaust Control Options:

#### Damper Position Control

Prodigy® Unit Controller controls exhaust fan based on economizer damper position. For Standard or High Static Power Exhaust (without VFD) Fans only.

#### Differential Pressure Transducer

Differential pressure transducer compares atmospheric pressure to conditioned space static pressure for controlling exhaust fan. Transducer is factory installed in the power exhaust section. For High Static Power Exhaust (with VFD) fans only.

#### 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.

Horizontal Economizer Conversion kit is available for field installation.

### OUTDOOR AIR OPTIONS

#### 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.

Minimum mixed air temperature in heating mode is 30°F. Maximum mixed air temperature in cooling mode is 90°F.

## **OPTIONS / ACCESSORIES**

### **ROOF CURBS**

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

#### **Downflow**

##### **Hybrid Roof Curbs**

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

Curb can also be fastened together with furnished hardware.

Available in 14, 18, and 24 inch heights.

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.

Requires Horizontal Return Air Panel Kit.

Available in 37-inch and 41-inch heights.

Optional Insulation Kit is available to help prevent sweating.

### **CEILING DIFFUSERS**

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

Diffuser face and grilles with white powder coat finish, insulated (UL listed duct liner), diffuser box with collars for duct connection, fixed blades (flush diffusers) and double deflection blades (step-down diffusers), provisions for suspending, internally sealed (prevents recirculation), removable return air grille, adapts to T-bar ceiling grids or plaster ceilings.

#### **Transitions (Supply and Return)**

Used with diffusers, installs in roof curb, galvanized steel construction, flanges furnished for duct connection to diffusers, fully insulated.

## OPTIONS / ACCESSORIES

Item Description	Model Number	Catalog Number	Unit Model No.		
			242	300	360
<b>COOLING SYSTEM</b>					
Condensate Drain Trap	PVC - C1TRAP20AD2	<b>76W26</b>	OX	OX	OX
	Copper - C1TRAP10AD2	<b>76W27</b>	OX	OX	OX
Corrosion Protection		Factory	O	O	O
Drain Pan Overflow Switch	E1SNSR71AD1	<b>68W88</b>	OX	OX	OX
Efficiency	High	Factory	O	O	O
Refrigerant Type	R-410A	Factory	O	O	O
Plastic Condensate Drain Pan		Factory	O	O	O
Stainless Steel Condensate Drain Pan	C1DPAN10D-1-	<b>83W42</b>	OX	OX	OX
<b>BLOWER - SUPPLY AIR</b>					
Motors	Belt Drive (standard efficiency) - 5 hp	Factory	O	O	O
	Belt Drive (standard efficiency) - 7.5 hp	Factory	O	O	O
	Belt Drive (standard efficiency) - 10 hp	Factory	O	O	O
	Manual Supply VFD Blower Bypass (VAV units w/VFD only)	Factory	O	O	O
Drive Kits See Blower Data Tables for usage and selection	Kit #1 740-895 rpm	Factory	O	O	O
	Kit #2 870-1045 rpm	Factory	O	O	O
	Kit #3 715-880 rpm	Factory	O	O	O
	Kit #4 770-965 rpm	Factory	O	O	O
	Kit #5 660-810 rpm	Factory	O	O	O
	Kit #6 770-965 rpm	Factory	O	O	O
	Kit #7 570-720 rpm	Factory	O	O	O
	Kit #8 480-630 rpm	Factory	O	O	
	Kit #9 410-535 rpm	Factory	O		
	Blower Belt Auto-Tensioner	Factory	O	O	O
<b>CABINET</b>					
Combination Coil/Hail Guards	C1GARD52D-1	<b>13T16</b>	X	X	X
Grille Guards	C1GARD39D-1-	<b>86K30</b>	X	X	X
Horizontal Return Air Panel Kit		<b>38K48</b>	X	X	X
<b>CONTROLS</b>					
Blower Proving Switch	C1SNSR35FF1	<b>53W65</b>	OX	OX	OX
L Connection® Building Automation System		---	OX	OX	OX
Prodigy® Control System - BACnet® Module - C0CTRL60AE1L		<b>59W51</b>	OX	OX	OX
Prodigy® Control System - LonTalk® Module - C0CTRL65FF1		<b>54W27</b>	OX	OX	OX
Novar® ETM-2051 Unit Controller - E0CTRL30C1		<b>64W74</b>	OX	OX	OX
Novar® LSE	Factory		O	O	O
Dirty Filter Switch	E1SNSR55C-1	<b>53W68</b>	OX	OX	OX
Discharge Air Temperature Sensor		Factory	O	O	O
Fresh Air Tempering	C1SNSR75AD1	<b>58W63</b>	OX	OX	OX
Smoke Detector - Supply or Return (Power board and one sensor)	C1SNSR44C-1	<b>83W40</b>	OX	OX	OX
Smoke Detector - Supply and Return (Power board and two sensors)	C1SNSR43C-1	<b>83W41</b>	OX	OX	OX
Supply Static Limit Switch	C0SNSR11AE1	<b>79M80</b>	X	X	X
Supply Static Limit Switch - Mounting Kit	C0SNSR12AE1	<b>79M81</b>	X	X	X
Supply Static Transducer	C0SNSR20AE1	<b>78M19</b>	X	X	X

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

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## OPTIONS / ACCESSORIES

Item Description	Model Number	Catalog Number	Unit Model No.				
			242	300	360		
<b>INDOOR AIR QUALITY</b>							
<b>Air Filters</b>							
Healthy Climate® High Efficiency Air Filters 20 x 20 x 2 - order 12 per unit	MERV 8 - C1FLTR15D-1- MERV 13 - C1FLTR40D-1-	<b>54W21</b> <b>52W39</b>	OX OX	OX OX	OX OX		
Replaceable Media Filter with Metal Mesh Frame (includes Non-Pleated Filter Media) 20 x 20 x 2- order 12 per unit	C1FLTR30D-1-	<b>44N60</b>	X	X	X		
<b>Indoor Air Quality (CO<sub>2</sub>) Sensors</b>							
Sensor - Wall-mount, off-white plastic cover with LCD display	C0NSR50AE1L	<b>77N39</b>	X	X	X		
Sensor - Wall-mount, off-white plastic cover, no display	C0NSR52AE1L	<b>87N53</b>	X	X	X		
Sensor - Black plastic case with LCD display, rated for plenum mounting	C0NSR51AE1L	<b>87N52</b>	X	X	X		
Sensor - Wall-mount, black plastic case, no display, rated for plenum mounting	C0MISC19AE1	<b>87N54</b>	X	X	X		
CO <sub>2</sub> Sensor Duct Mounting Kit - for downflow applications	C0MISC19AE1-	<b>85L43</b>	X	X	X		
Aspiration Box - for duct mounting non-plenum rated CO <sub>2</sub> sensors (87N53 or 77N39)	C0MISC16AE1-	<b>90N43</b>	X	X	X		
<b>UVC Germicidal Light Kit</b>							
<sup>1</sup> Healthy Climate® UVC Light Kit (110/230v-1ph)	Factory	O	O	O	O		
<b>ELECTRICAL</b>							
Voltage 60 hz	208/230V - 3 phase 460V - 3 phase 575V - 3 phase	Factory Factory Factory	O O O	O O O	O O O		
<b>HACR Circuit Breakers</b>							
Disconnect Switch - See Electrical Accessories Tables on page 35 for selection	80 amp 150 amp 250 amp	<b>54W85</b> <b>54W86</b> <b>54W87</b>	OX OX OX	OX OX OX	OX OX OX		
GFI Service Outlets	15 amp non-powered, field-wired (208/230V, 460V, 575V) LTAGFIK10/15 15 amp factory-wired and powered (208/230V, 460V, 575V) 20 amp non-powered, field-wired (575V only) C1GFCI20FF1	<b>74M70</b> Factory <b>67E01</b>	OX O OX	OX O OX	OX O OX		
Weatherproof Cover for GFI	C1GFCI99FF1	<b>10C89</b>	X	X	X		
Phase/Voltage Detection	Factory	O	O	O	O		
<b>ELECTRIC HEAT</b>							
30 kW	208/230V-3ph - C1EH0300C21Y 460V-3ph - C1EH0300C21G 575V-3ph - C1EH0300C21J	<b>53W92</b> <b>53W94</b> <b>53W95</b>	OX OX OX	OX OX OX	OX OX OX		
45 kW	208/230V-3ph - C1EH0450C21Y 460V-3ph - C1EH0450C21G 575V-3ph - C1EH0450C21J	<b>54W00</b> <b>54W02</b> <b>54W03</b>	OX OX OX	OX OX OX	OX OX OX		
60 kW	208/230V-3ph - C1EH0600C21Y 460V-3ph - C1EH0600C21G 575V-3ph - C1EH0600C21J	<b>54W08</b> <b>54W10</b> <b>54W11</b>	OX OX OX	OX OX OX	OX OX OX		
90 kW	208/230V-3ph - C1EH0900C21Y 460V-3ph - C1EH0900C21G 575V-3ph - C1EH0900C21J	<b>54W12</b> <b>54W14</b> <b>54W15</b>	OX OX OX	OX OX OX	OX OX OX		
120 kW	208/230V-3ph - E1EH1200D-1Y 460V-3ph - E1EH1200D-1G 575V-3ph - E1EH1200D-1J	<b>73W98</b> <b>73W99</b> <b>74W00</b>	OX OX OX	OX OX OX	OX OX OX		

<sup>1</sup> Lamps operate on 110/230V, single phase power supply. Step-down transformer is furnished with lamps when used with 460V and 575V rooftop units.

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

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## OPTIONS / ACCESSORIES

Item Description	Model Number	Catalog Number	Unit Model No.				
			242	300	360		
<b>ECONOMIZER</b>							
<b>Standard Economizer (Not for Title 24)</b>							
Standard Economizer	E1ECON15D-1	<b>74W43</b>	OX	OX	OX		
Downflow or Horizontal Applications - Includes Outdoor Air Hood. Order Downflow or Horizontal Barometric Relief Dampers separately.							
<b>High Performance Economizer (Approved for California Title 24 Building Standards / AMCA Class 1A Certified)</b>							
High Performance Economizer	E1ECON17D-1	<b>10U62</b>	OX	OX	OX		
Downflow or Horizontal Applications - Includes Outdoor Air Hood. Order Downflow or Horizontal Barometric Relief Dampers separately.							
<b>Economizer Controls</b>							
Differential Enthalpy (Not for Title 24)	Order 2 - C1SNSR64FF1	<b>53W64</b>	OX	OX	OX		
Sensible Control	Sensor is Furnished	Factory	O	O	O		
Single Enthalpy (Not for Title 24)	C1SNSR64FF1	<b>53W64</b>	OX	OX	OX		
Global, Enthalpy	Sensor Field Provided	Factory	O	O	O		
Differential Sensible	Sensor is Furnished	Factory	O	O	O		
Outdoor Air CFM Control	Factory	O	O	O			
<b>Barometric Relief Dampers With Exhaust Hood</b>							
Downflow Barometric Relief Dampers	E1DAMP60D-1	<b>76W17</b>	OX	OX	OX		
Horizontal Barometric Relief Dampers	LAGEDH30/36	<b>33K78</b>	OX	OX	OX		
<b>OUTDOOR AIR</b>							
<b>Outdoor Air Dampers With Outdoor Air Hood</b>							
Motorized	E1DAMP25D-1-	<b>74W44</b>	OX	OX	OX		
Manual	E1DAMO15D-1-	<b>74W45</b>	OX	OX	OX		
<b>POWER EXHAUST</b>							
Standard Static	208/230V - E1PWRE40D-1Y	<b>74W21</b>	OX	OX	OX		
	460V - E1PWRE40D-1G	<b>74W22</b>	OX	OX	OX		
	575V - E1PWRE40D-1J	<b>74W23</b>	OX	OX	OX		
High Static - 50%	208/230V - Drive Kit #1 (405-533 rpm) - LAPEB30/36AY	<b>83M83</b>	X	X	X		
	208/230V - Drive Kit #2 (531-731 rpm) - LAPEB30/36BY	<b>84M34</b>	X	X	X		
	208/230V - Drive Kit #3 (731-932 rpm) - LAPEB30/36CY	<b>84M35</b>	X	X	X		
	460V - Drive Kit #1 (405-533 rpm) - LAPEB30/36AG	<b>83M84</b>	X	X	X		
	460V - Drive Kit #2 (531-731 rpm) - LAPEB30/36BG	<b>84M36</b>	X	X	X		
	460V - Drive Kit #3 (731-932 rpm) - LAPEB30/36CG	<b>84M37</b>	X	X	X		
	575V - Drive Kit #1 (405-533 rpm) - LAPEB30/36AJ	<b>83M85</b>	X	X	X		
	575V - Drive Kit #2 (531-731 rpm) - LAPEB30/36BJ	<b>84M38</b>	X	X	X		
	575V - Drive Kit #3 (731-932 rpm) - LAPEB30/36CJ	<b>84M39</b>	X	X	X		
High Static - 100%	208/230V - Drive Kit #1 (406-533 rpm) - LAPEB30/36DY	<b>83M86</b>	X	X	X		
	208/230V - Drive Kit #2 (531-731 rpm) - LAPEB30/36EY	<b>84M40</b>	X	X	X		
	208/230V - Drive Kit #3 (731-932 rpm) - LAPEB30/36FY	<b>84M41</b>	X	X	X		
	460V - Drive Kit #1 (406-533 rpm) - LAPEB30/36DG	<b>83M87</b>	X	X	X		
	460V - Drive Kit #2 (531-731 rpm) - LAPEB30/36EG	<b>84M42</b>	X	X	X		
	460V - Drive Kit #3 (731-932 rpm) - LAPEB30/36FG	<b>84M43</b>	X	X	X		
	575V - Drive Kit #1 (406-533 rpm) - LAPEB30/36DJ	<b>83M88</b>	X	X	X		
	575V - Drive Kit #2 (531-731 rpm) - LAPEB30/36EJ	<b>84M44</b>	X	X	X		
	575V - Drive Kit #3 (731-932 rpm) - LAPEB30/36FJ	<b>84M45</b>	X	X	X		
100% with VFD	208/230V - LAPEV30/36GY	<b>83M89</b>	X	X	X		
	460V - LAPEV30/36GG	<b>83M90</b>	X	X	X		
	575V - LAPEV30/36GJ	<b>83M91</b>	X	X	X		
100% with VFD and Bypass	208/230V - LAPEV30/36HY	<b>83M92</b>	X	X	X		
	460V - LAPEV30/36HG	<b>83M93</b>	X	X	X		
	575V - LAPEV30/36HJ	<b>83M94</b>	X	X	X		

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## OPTIONS / ACCESSORIES

Item Description	Model Number	Catalog Number	Unit Model No.				
			242	300	360		
<b>ROOF CURBS</b>							
<b>Hybrid Roof Curbs, Downflow</b>							
14 in. height	C1CURB71D-1	<b>11F62</b>	X	X	X		
18 in. height	C1CURB72D-1	<b>11F63</b>	X	X	X		
24 in. height	C1CURB73D-1	<b>11F64</b>	X	X	X		
<b>Standard Roof Curbs, Horizontal - Requires Horizontal Return Air Panel Kit</b>							
30 in. height - slab applications	C1CURB15C-1	<b>11T90</b>	X	X	X		
41 in. height - rooftop applications	C1CURB17C-1	<b>11T97</b>	X	X	X		
<b>Horizontal Return Air Panel Kit (Required)</b>			<b>38K48</b>	X	X		
<b>Insulation Kit For Standard Horizontal Curbs</b>							
for C1CURB15C-1			<b>73K33</b>	X	X		
for C1CURB17C-1			<b>73K35</b>	X	X		
<b>CEILING DIFFUSERS</b>							
Step-Down - Order one	LARTD30/36S	<b>45K74</b>	X	X	X		
Flush - Order one	LAFD30/36S	<b>45K75</b>	X	X	X		
Transitions (Supply and Return) - Order one	LASRT30/36	<b>33K80</b>	X	X	X		

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

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## SPECIFICATIONS

General Data		Nominal Tonnage	20 Ton	25 Ton	25 Ton	30 Ton	30 Ton					
		Model Number	LCH242H4V	LCH300H4B	LCH300H4V	LCH360H4B	LCH360H4V					
		Efficiency Type	High	High	High	High	High					
		Blower Type	Variable Air Volume (VAV)	Constant Air Volume (CAV)	Variable Air Volume (VAV)	Constant Air Volume (CAV)	Variable Air Volume (VAV)					
Cooling Performance	Gross Cooling Capacity - Btuh	244,000	310,000	310,000	370,000	370,000	370,000					
	<sup>1</sup> Net Cooling Capacity - Btuh	238,000	300,000	300,000	354,000	354,000	354,000					
	AHRI Rated Air Flow - cfm	6800	8100	8100	9600	9600	9600					
	Total Unit Power - kW	19	25.4	25.4	32.8	32.8	32.8					
	<sup>1</sup> EER (Btuh/Watt)	12.5	11.8	11.8	10.8	10.8	10.8					
	<sup>2</sup> IEER (Btuh/Watt)	15.5	12.5	14.3	11.6	13.5	13.5					
	Refrigerant Type	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A					
	Refrigerant Charge	Circuit 1 Circuit 2 Circuit 3 Circuit 4	8 lbs. 0 oz. 8 lbs. 0 oz. 8 lbs. 8 oz. 8 lbs. 8 oz.	9 lbs. 4 oz. 9 lbs. 0 oz. 8 lbs. 12 oz. 8 lbs. 8 oz.	8 lbs. 0 oz. 8 lbs. 0 oz. 8 lbs. 0 oz. 8 lbs. 8 oz.	9 lbs. 0 oz. 8 lbs. 0 oz. 9 lbs. 0 oz. 7 lbs. 8 oz.	8 lbs. 0 oz. 8 lbs. 0 oz. 8 lbs. 0 oz. 8 lbs. 0 oz.					
Electric Heat Available - See page 25		30-45-60-90-120 kW										
Compressor Type (number)		Scroll (4)	Scroll (4)	Scroll (4)	Scroll (4)	Scroll (4)	Scroll (4)					
Outdoor Coils	Net face area (total) - sq. ft.	68.3	68.3	68.3	68.3	68.3	68.3					
	Number of rows	1	1	1	1	1	1					
	Fins per inch	23	23	23	23	23	23					
Outdoor Coil Fans	Motor - (No.) horsepower	(6) 1/3	(6) 1/3	(6) 1/3	(6) 1/3	(6) 1/3	(6) 1/3					
	Motor rpm	1075	1075	1075	1075	1075	1075					
	Total Motor watts	2500	2500	2500	2500	2500	2500					
	Diameter - (No.) in.	(6) 24	(6) 24	(6) 24	(6) 24	(6) 24	(6) 24					
	Number of blades	3	3	3	3	3	3					
	Total Air volume - cfm	21,500	21,500	21,500	21,500	21,500	21,500					
Indoor Coils	Net face area (total) - sq. ft.	31.40	31.40	31.40	31.40	31.40	31.40					
	Tube diameter - in.	3/8	3/8	3/8	3/8	3/8	3/8					
	Number of rows	4	4	4	4	4	4					
	Fins per inch	14	14	14	14	14	14					
	Drain connection - No. and size	(1) 1 in. NPT	(1) 1 in. NPT	(1) 1 in. NPT	(1) 1 in. NPT	(1) 1 in. NPT	(1) 1 in. NPT					
	Expansion device type	Balance port TXV, removable head										
<sup>3</sup> Indoor Blower and Kit Selection	Nominal motor output	5 hp, 7.5 hp, 10 hp	5 hp, 7.5 hp, 10 hp		5 hp, 7.5 hp, 10 hp							
	Maximum usable motor output (US Only)	5.75 hp, 8.63 hp, 11.5 hp	5.75 hp, 8.63 hp, 11.5 hp		5.75 hp, 8.63 hp, 11.5 hp							
	Motor - Kit kit number	<b>5 hp</b> <b>Kit 5</b> 660-810 rpm <b>Kit 6</b> 770-965 rpm <b>Kit 7</b> 570-720 rpm <b>Kit 8</b> 480-630 rpm <b>Kit 9</b> 410-535 rpm <b>7.5 hp</b> <b>Kit 3</b> 715-880 rpm <b>Kit 4</b> 770-965 rpm <b>10 hp</b> <b>Kit 1</b> 740-895 rpm <b>Kit 2</b> 870-1045 rpm	<b>5 hp</b> <b>Kit 5</b> 660-810 rpm <b>Kit 6</b> 770-965 rpm <b>Kit 7</b> 570-720 rpm <b>Kit 8</b> 480-630 rpm <b>7.5 hp</b> <b>Kit 3</b> 715-880 rpm <b>Kit 4</b> 770-965 rpm <b>10 hp</b> <b>Kit 1</b> 740-895 rpm <b>Kit 2</b> 870-1045 rpm	<b>5 hp</b> <b>Kit 5</b> 660-810 rpm <b>Kit 6</b> 770-965 rpm <b>Kit 7</b> 570-720 rpm <b>7.5 hp</b> <b>Kit 3</b> 715-880 rpm <b>Kit 4</b> 770-965 rpm <b>10 hp</b> <b>Kit 1</b> 740-895 rpm <b>Kit 2</b> 870-1045 rpm								
	Blower wheel nom. D x W - in.	(2) 18 x 15	(2) 18 x 15		(2) 18 x 15							
	Filters	Type of filter										
	Number and size - in.	(12) 20 x 20 x 2										
Electrical characteristics		208/230V, 460V or 575V - 60 hertz - 3 phase										

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

<sup>1</sup>AHRI Certified to AHRI Standard 340/360; 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

<sup>2</sup> Integrated Energy Efficiency Ratio certified and tested according to AHRI Standard 340/360.

<sup>3</sup> Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor output required. Maximum usable output of motors furnished are shown. In Canada, nominal motor output is also maximum usable motor output. If motors of comparable output are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

## RATINGS

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

### 20 TON HIGH EFFICIENCY LCH242H4V (1 COMPRESSOR OPERATING) - VARIABLE AIR VOLUME

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		65°F						75°F						85°F						95°F					
		Total Cool Cap. cfm	Comp. Motor Input kBtuh	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)						
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb						
63°F	1600	47.2	2.44	0.62	0.7	0.79	45.3	2.83	0.62	0.7	0.79	43.1	3.25	0.61	0.7	0.79	40.9	3.72	0.6	0.7	0.8				
	2000	51.5	2.44	0.63	0.73	0.82	49.6	2.83	0.63	0.73	0.83	47.6	3.26	0.63	0.73	0.83	45	3.73	0.63	0.74	0.85				
	2400	55.2	2.44	0.65	0.76	0.86	53.2	2.84	0.65	0.76	0.87	50.9	3.27	0.65	0.77	0.88	48.2	3.74	0.65	0.78	0.89				
67°F	1600	49.3	2.44	0.51	0.59	0.67	47.6	2.83	0.5	0.58	0.67	45.5	3.25	0.5	0.58	0.67	43.3	3.73	0.49	0.58	0.67				
	2000	54.3	2.44	0.52	0.6	0.7	52.4	2.83	0.52	0.6	0.7	50.1	3.27	0.51	0.6	0.7	47.6	3.74	0.51	0.61	0.71				
	2400	58.1	2.44	0.53	0.63	0.73	56.1	2.84	0.53	0.63	0.73	53.8	3.28	0.52	0.63	0.73	51	3.75	0.52	0.63	0.74				
71°F	1600	51.7	2.44	0.41	0.49	0.57	49.9	2.83	0.4	0.49	0.56	47.9	3.26	0.39	0.48	0.56	45.5	3.74	0.38	0.47	0.56				
	2000	56.8	2.44	0.41	0.5	0.58	54.9	2.84	0.41	0.5	0.58	52.6	3.27	0.4	0.5	0.58	50	3.75	0.39	0.49	0.58				
	2400	60.9	2.43	0.42	0.52	0.6	58.8	2.84	0.41	0.51	0.6	56.4	3.28	0.4	0.51	0.6	53.5	3.75	0.4	0.51	0.61				

### 20 TON HIGH EFFICIENCY LCH242H4V (2 COMPRESSORS OPERATING) - VARIABLE AIR VOLUME

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		65°F						75°F						85°F						95°F					
		Total Cool Cap. cfm	Comp. Motor Input kBtuh	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)						
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb						
63°F	3200	106.4	4.89	0.63	0.71	0.78	102.2	5.67	0.63	0.71	0.78	97.6	6.52	0.62	0.71	0.79	92.3	7.46	0.61	0.71	0.8				
	4000	114.4	4.89	0.64	0.73	0.82	109.9	5.68	0.64	0.73	0.82	105	6.54	0.63	0.74	0.83	99.3	7.48	0.63	0.74	0.84				
	4800	120.9	4.89	0.66	0.76	0.85	116.2	5.69	0.65	0.76	0.86	110.7	6.55	0.65	0.77	0.86	105	7.5	0.66	0.78	0.88				
67°F	3200	113.1	4.89	0.52	0.6	0.67	108.6	5.68	0.51	0.59	0.67	104	6.54	0.5	0.59	0.67	98.7	7.48	0.5	0.58	0.67				
	4000	121.9	4.89	0.52	0.61	0.7	117.2	5.69	0.52	0.61	0.7	112	6.56	0.52	0.61	0.7	106.1	7.5	0.51	0.61	0.71				
	4800	128.6	4.89	0.53	0.63	0.73	123.6	5.69	0.53	0.63	0.73	117.8	6.57	0.53	0.64	0.74	111.8	7.52	0.53	0.63	0.74				
71°F	3200	119.9	4.89	0.42	0.5	0.57	115.4	5.69	0.41	0.49	0.57	110.6	6.56	0.4	0.49	0.56	105.1	7.5	0.39	0.48	0.56				
	4000	129.2	4.88	0.42	0.5	0.58	124.4	5.69	0.41	0.5	0.59	119	6.57	0.4	0.5	0.59	113	7.53	0.4	0.5	0.59				
	4800	136.4	4.88	0.42	0.51	0.61	131.4	5.7	0.41	0.51	0.61	125.4	6.58	0.41	0.51	0.61	119	7.54	0.4	0.51	0.62				

### 20 TON HIGH EFFICIENCY LCH242H4V (3 COMPRESSORS OPERATING) - VARIABLE AIR VOLUME

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		65°F						75°F						85°F						95°F					
		Total Cool Cap. cfm	Comp. Motor Input kBtuh	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)						
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb						
63°F	4800	190.6	7.35	0.69	0.82	0.9	182.8	8.56	0.7	0.83	0.91	173.9	9.86	0.7	0.84	0.91	164.5	11.27	0.71	0.86	0.92				
	6000	201.5	7.35	0.73	0.87	0.93	193.6	8.57	0.74	0.87	0.94	184.9	9.88	0.75	0.88	0.95	175.5	11.31	0.77	0.89	0.96				
	7200	211.3	7.34	0.78	0.9	0.96	203.1	8.58	0.78	0.9	0.97	193.9	9.89	0.8	0.91	0.98	183.9	11.33	0.82	0.92	0.99				
67°F	4800	202.1	7.35	0.56	0.67	0.79	194	8.57	0.56	0.67	0.79	184.6	9.88	0.56	0.68	0.81	174.7	11.3	0.56	0.69	0.82				
	6000	212.7	7.34	0.58	0.71	0.85	203.9	8.58	0.58	0.72	0.85	194.2	9.9	0.59	0.73	0.86	183.2	11.32	0.58	0.74	0.87				
	7200	220.2	7.34	0.61	0.76	0.88	211.2	8.58	0.61	0.76	0.88	201.1	9.91	0.61	0.78	0.89	189.8	11.34	0.62	0.79	0.9				
71°F	4800	213.3	7.34	0.43	0.54	0.65	205.1	8.58	0.43	0.54	0.66	195.5	9.9	0.42	0.54	0.66	185.2	11.33	0.41	0.55	0.67				
	6000	224.4	4.92	0.44	0.55	0.66	215.7	8.58	0.43	0.57	0.7	205.5	9.91	0.43	0.57	0.7	194.4	11.35	0.43	0.58	0.72				
	7200	232.4	4.91	0.45	0.56	0.68	223.4	8.58	0.45	0.6	0.74	212.7	9.92	0.45	0.6	0.75	201	11.37	0.44	0.61	0.77				

### 20 TON HIGH EFFICIENCY LCH242H4V (All COMPRESSORS OPERATING) - VARIABLE AIR VOLUME

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																					
85°F						95°F						105°F						115°F					
Total Cool Cap. cfm	Comp. Motor Input kBtuh	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)						


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## RATINGS

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

### 25 TON HIGH EFFICIENCY LCH300H4B (1ST STAGE) - CONSTANT AIR VOLUME

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		65°F						75°F						85°F						95°F					
		Total Cool Cap. Input	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)						
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb						
cfm	kBtu/h	kW	75°F	80°F	85°F	kBtu/h	kW	75°F	80°F	85°F	kBtu/h	kW	75°F	80°F	85°F	kBtu/h	kW	75°F	80°F	85°F					
63°F	8000	160.5	7.35	0.73	0.84	0.95	153.9	8.21	0.73	0.85	0.96	146.7	9.16	0.74	0.86	0.98	139	10.27	0.74	0.88	0.99				
	10000	169.9	7.48	0.77	0.9	1	162.5	8.33	0.78	0.91	1	154.9	9.29	0.79	0.93	1	147	10.38	0.8	0.94	1				
	12000	176.7	7.58	0.81	0.95	1	169.1	8.42	0.82	0.97	1	161.4	9.38	0.83	0.98	1	153.2	10.47	0.84	0.99	1				
67°F	8000	171.1	7.5	0.58	0.7	0.81	164	8.35	0.58	0.71	0.82	156.6	9.3	0.58	0.71	0.83	148.5	10.39	0.58	0.72	0.84				
	10000	180.3	7.63	0.61	0.75	0.87	172.4	8.47	0.61	0.76	0.89	164.4	9.42	0.61	0.76	0.9	156.2	10.51	0.62	0.78	0.91				
	12000	186.5	7.73	0.64	0.8	0.93	178.8	8.57	0.64	0.81	0.94	170.3	9.51	0.65	0.81	0.96	161.5	10.59	0.65	0.83	0.97				
71°F	8000	182.5	7.67	0.44	0.56	0.68	175.1	8.51	0.44	0.56	0.68	167.3	9.46	0.43	0.56	0.69	159	10.55	0.43	0.57	0.7				
	10000	191.8	7.8	0.45	0.6	0.73	183.9	8.64	0.45	0.59	0.74	175.6	9.59	0.45	0.6	0.75	166.7	10.67	0.45	0.6	0.76				
	12000	198.3	7.91	0.47	0.62	0.78	190.1	8.74	0.47	0.63	0.79	181.8	9.69	0.47	0.64	0.8	172.1	10.77	0.46	0.64	0.81				

### 25 TON HIGH EFFICIENCY LCH300H4B (2ND STAGE) - CONSTANT AIR VOLUME

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		85°F						95°F						105°F						115°F					
		Total Cool Cap. Input	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)						
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb						
cfm	kBtu/h	kW	75°F	80°F	85°F	kBtu/h	kW	75°F	80°F	85°F	kBtu/h	kW	75°F	80°F	85°F	kBtu/h	kW	75°F	80°F	85°F					
63°F	8000	296.2	18.34	0.74	0.87	0.98	281.2	20.54	0.75	0.88	1	264.8	23.12	0.76	0.9	1	245.8	26.15	0.77	0.92	1				
	10000	312	18.57	0.79	0.94	1	296.6	20.78	0.8	0.95	1	279.7	23.34	0.82	0.97	1	260	26.33	0.84	0.99	1				
	12000	324.6	18.75	0.84	0.99	1	308.9	20.94	0.85	1	1	292.8	23.53	0.87	1	1	275	26.56	0.89	1	1				
67°F	8000	316.1	18.62	0.58	0.71	0.84	300.8	20.82	0.58	0.72	0.85	283.8	23.4	0.58	0.73	0.87	263.9	26.39	0.59	0.75	0.89				
	10000	331.9	18.86	0.61	0.77	0.91	315.7	21.05	0.62	0.78	0.92	298	23.61	0.63	0.8	0.94	276.9	26.57	0.63	0.81	0.97				
	12000	343.8	19.04	0.65	0.82	0.97	326.6	21.22	0.65	0.83	0.98	308.3	23.78	0.66	0.85	1	286.7	26.73	0.67	0.87	1				
71°F	8000	336.9	18.93	0.43	0.57	0.69	321	21.12	0.43	0.57	0.7	303.8	23.7	0.42	0.57	0.71	283.2	26.66	0.42	0.57	0.73				
	10000	353.5	19.19	0.45	0.6	0.75	336.7	21.38	0.45	0.61	0.76	318.6	23.94	0.45	0.62	0.78	296.9	26.89	0.44	0.62	0.79				
	12000	365.8	19.38	0.47	0.64	0.8	347.7	21.55	0.46	0.64	0.81	328.6	24.1	0.46	0.65	0.83	306.2	27.06	0.46	0.67	0.85				

## RATINGS

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

### 25 TON HIGH EFFICIENCY LCH300H4V (1 COMPRESSOR OPERATING) - VARIABLE AIR VOLUME

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		65°F						75°F						85°F						95°F					
		Total Cool Cap. kW	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. kW	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. kW	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. kW	Comp. Motor Input	Sensible To Total Ratio (S/T)						
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb						
63°F	2000	61.6	3.65	0.63	0.7	0.78	58.9	4.07	0.63	0.71	0.79	55.9	4.57	0.62	0.7	0.79	52.7	5.13	0.61	0.7	0.8				
	2500	67.4	3.68	0.63	0.72	0.81	64.5	4.1	0.63	0.73	0.82	61.5	4.59	0.63	0.73	0.83	58.2	5.15	0.63	0.74	0.84				
	3000	72.3	3.73	0.65	0.75	0.84	69.2	4.15	0.65	0.75	0.85	66	4.63	0.65	0.76	0.87	62.4	5.19	0.66	0.77	0.88				
67°F	2000	64.9	3.67	0.53	0.6	0.67	61.6	4.09	0.52	0.59	0.67	58.8	4.58	0.51	0.59	0.67	55.8	5.15	0.5	0.59	0.67				
	2500	70.9	3.72	0.52	0.6	0.69	68	4.14	0.52	0.6	0.69	64.9	4.62	0.52	0.61	0.7	61.5	5.18	0.51	0.61	0.7				
	3000	76.2	3.76	0.53	0.62	0.72	73.1	4.17	0.53	0.62	0.72	69.7	4.64	0.53	0.63	0.73	66	5.2	0.53	0.63	0.74				
71°F	2000	67.3	3.68	0.42	0.5	0.56	64.6	4.11	0.41	0.49	0.57	61.8	4.59	0.4	0.49	0.57	58.7	5.16	0.39	0.48	0.56				
	2500	74.2	3.73	0.42	0.51	0.58	71.2	4.15	0.41	0.5	0.58	68	4.63	0.41	0.5	0.59	64.6	5.19	0.4	0.5	0.59				
	3000	79.8	3.79	0.42	0.51	0.6	76.6	4.2	0.42	0.51	0.6	73	4.68	0.41	0.51	0.61	69.3	5.23	0.41	0.51	0.61				

### 25 TON HIGH EFFICIENCY LCH300H4V (2 COMPRESSORS OPERATING) - VARIABLE AIR VOLUME

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		65°F						75°F						85°F						95°F					
		Total Cool Cap. kW	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. kW	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. kW	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. kW	Comp. Motor Input	Sensible To Total Ratio (S/T)						
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb						
63°F	4000	137.9	7.46	0.61	0.68	0.76	131.9	8.29	0.62	0.71	0.78	125.6	9.23	0.63	0.71	0.79	118.8	10.31	0.62	0.71	0.8				
	5000	149.2	7.52	0.65	0.73	0.81	142.4	8.37	0.63	0.73	0.81	135.4	9.31	0.64	0.74	0.83	128.1	10.4	0.63	0.74	0.84				
	6000	157.3	7.59	0.65	0.75	0.84	150.7	8.44	0.66	0.76	0.85	143.3	9.38	0.66	0.77	0.86	135.4	10.44	0.66	0.77	0.87				
67°F	4000	146.8	7.51	0.53	0.6	0.67	140.8	8.35	0.52	0.6	0.67	134	9.31	0.51	0.59	0.68	126.9	10.37	0.51	0.59	0.68				
	5000	158.5	7.61	0.53	0.61	0.69	151.9	8.44	0.53	0.61	0.7	144.7	9.39	0.52	0.61	0.7	136.9	10.46	0.51	0.62	0.7				
	6000	167.6	7.7	0.54	0.62	0.72	160.5	8.53	0.53	0.63	0.72	152.7	9.46	0.53	0.64	0.74	144.4	10.53	0.53	0.64	0.74				
71°F	4000	155.5	7.58	0.43	0.5	0.57	149.2	8.42	0.42	0.49	0.57	142.5	9.37	0.41	0.49	0.57	135.4	10.45	0.4	0.49	0.57				
	5000	168.1	7.71	0.43	0.51	0.59	161.2	8.52	0.42	0.5	0.58	154.1	9.47	0.41	0.5	0.59	146.1	10.55	0.41	0.49	0.59				
	6000	177.8	7.79	0.43	0.52	0.6	170.5	8.62	0.42	0.51	0.61	162.2	9.56	0.41	0.52	0.61	153.7	10.63	0.4	0.51	0.61				

### 25 TON HIGH EFFICIENCY LCH300H4V (3 COMPRESSORS OPERATING) - VARIABLE AIR VOLUME

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		65°F						75°F						85°F						95°F					
		Total Cool Cap. kW	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. kW	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. kW	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. kW	Comp. Motor Input	Sensible To Total Ratio (S/T)						
				Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb						
63°F	6000	247.6	11.46	0.69	0.81	0.9	236.6	12.72	0.7	0.82	0.9	224.8	14.12	0.7	0.83	0.91	212.3	15.72	0.71	0.84	0.92				
	7500	261.7	11.61	0.72	0.86	0.93	250.1	12.85	0.73	0.87	0.93	237.6	14.24	0.74	0.88	0.94	225.2	15.86	0.76	0.89	0.95				
	9000	273	11.73	0.76	0.89	0.95	261.6	12.98	0.77	0.9	0.96	249.3	14.38	0.79	0.9	0.97	236.2	16	0.8	0.91	0.98				
67°F	6000	262.6	11.63	0.56	0.66	0.77	251.2	12.87	0.56	0.67	0.78	238.9	14.27	0.56	0.68	0.8	225.8	15.87	0.56	0.69	0.81				
	7500	276.9	11.78	0.58	0.7	0.83	264.6	13.01	0.58	0.71	0.84	251.5	14.41	0.58	0.72	0.86	237.2	15.99	0.59	0.73	0.87				
	9000	287.4	11.89	0.6	0.74	0.87	274.3	13.12	0.6	0.75	0.88	260.3	14.52	0.6	0.77	0.89	245.2	16.11	0.61	0.79	0.89				
71°F	6000	277	11.78	0.43	0.54	0.64	265.4	13.03	0.43	0.54	0.65	252.4	14.43	0.42	0.55	0.65	239.1	16.03	0.42	0.55	0.66				
	7500	291.9	11.95	0.44	0.57	0.68	279.3	13.19	0.44	0.57	0.69	266	14.59	0.43	0.57	0.7	251.2	16.18	0.43	0.57	0.71				
	9000	303.1	12.08	0.45	0.59	0.72	289.6	13.32	0.45	0.6	0.73	275.3	14.71	0.44	0.6	0.74	259.9	16.3	0.44	0.6	0.76				

### 25 TON HIGH EFFICIENCY LCH300H4V (All COMPRESSORS OPERATING) - VARIABLE AIR VOLUME

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																					
85°F						95°F						105°F						115°F					
Total Cool Cap. kW	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. kW	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. kW	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cool Cap. kW	Comp. Motor Input	Sensible To Total Ratio (S/T)						





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## RATINGS

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

### 30 TON HIGH EFFICIENCY LCH360H4B (1ST STAGE) - CONSTANT AIR VOLUME

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		65°F						75°F						85°F						95°F					
		Total Cool Cap. Input	Comp. Motor Input	Sensible To Total Ratio (S/T)		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)					
				Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb				
63°F	9440	193.7	9.57	0.71	0.83	0.94	185.6	10.61	0.71	0.84	0.96	177.6	11.79	0.72	0.85	0.97	168.9	13.16	0.72	0.86	0.98				
	11800	204.3	9.73	0.75	0.89	1	195.5	10.76	0.76	0.9	1	187	11.95	0.77	0.92	1	177.8	13.31	0.78	0.93	1				
	14160	212.1	9.86	0.8	0.95	1	202.9	10.89	0.81	0.96	1	194.1	12.07	0.82	0.98	1	184.9	13.44	0.83	0.99	1				
67°F	9440	206.1	9.76	0.57	0.68	0.8	197.7	10.8	0.56	0.69	0.81	189	11.98	0.56	0.69	0.82	180	13.35	0.56	0.7	0.83				
	11800	215.9	9.92	0.59	0.73	0.86	206.7	10.95	0.6	0.74	0.87	197.7	12.13	0.6	0.75	0.89	188.1	13.5	0.6	0.76	0.9				
	14160	222.9	10.04	0.62	0.78	0.92	213.4	11.07	0.62	0.79	0.94	204.1	12.24	0.63	0.8	0.95	194.4	13.6	0.63	0.81	0.97				
71°F	9440	218.8	9.97	0.43	0.55	0.66	209.8	11	0.43	0.56	0.67	200.8	12.19	0.43	0.55	0.67	191.4	13.55	0.42	0.55	0.68				
	11800	228.7	10.14	0.45	0.58	0.71	219.1	11.17	0.44	0.58	0.72	210	12.35	0.44	0.59	0.73	200	13.71	0.43	0.59	0.74				
	14160	236.2	10.27	0.46	0.61	0.76	226.3	11.3	0.45	0.62	0.77	216.6	12.47	0.46	0.62	0.78	206.8	13.83	0.45	0.63	0.79				

### 30 TON HIGH EFFICIENCY LCH360H4B (2ND STAGE) - CONSTANT AIR VOLUME

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		85°F						95°F						105°F						115°F					
		Total Cool Cap. Input	Comp. Motor Input	Sensible To Total Ratio (S/T)		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T)					
				Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb				
63°F	9440	357.9	23.62	0.72	0.85	0.98	339.6	26.32	0.73	0.87	0.99	320.3	29.45	0.74	0.88	1	298.7	33.06	0.75	0.91	1				
	11800	376.2	23.92	0.77	0.92	1	356.7	26.61	0.78	0.94	1	336.8	29.76	0.8	0.96	1	314.1	33.33	0.82	0.98	1				
	14160	390.1	24.16	0.82	0.98	1	371	26.86	0.84	0.99	1	351.1	30	0.85	1	1	329.1	33.62	0.88	1	1				
67°F	9440	380.8	24	0.57	0.7	0.82	361.9	26.69	0.57	0.7	0.83	341.9	29.83	0.57	0.71	0.85	318.5	33.41	0.57	0.73	0.87				
	11800	398.8	24.3	0.6	0.75	0.89	378.5	27.01	0.6	0.76	0.91	357.2	30.12	0.61	0.78	0.93	332.8	33.7	0.62	0.8	0.96				
	14160	411.3	24.53	0.63	0.81	0.96	390.7	27.22	0.64	0.82	0.98	368.6	30.34	0.64	0.83	0.99	342.8	33.9	0.65	0.86	1				
71°F	9440	403.5	24.4	0.43	0.55	0.68	383.9	27.09	0.42	0.55	0.68	363.4	30.23	0.42	0.56	0.69	339.3	33.82	0.41	0.56	0.71				
	11800	422.3	24.72	0.44	0.59	0.73	401.5	27.42	0.44	0.59	0.74	379.4	30.54	0.43	0.6	0.76	353.9	34.12	0.43	0.61	0.78				
	14160	435	24.95	0.45	0.62	0.79	414.7	27.65	0.45	0.63	0.8	390.6	30.75	0.45	0.63	0.81	363.9	34.32	0.45	0.65	0.84				

## RATINGS

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

### 30 TON HIGH EFFICIENCY LCH360H4V (1 COMPRESSOR OPERATING) - VARIABLE AIR VOLUME

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		65°F						75°F						85°F						95°F					
		Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)						
				Dry Bulb	Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb	Dry Bulb				
63°F	2360	72.8	4.44	0.63	0.71	0.79	69.7	4.96	0.63	0.71	0.79	66.3	5.54	0.63	0.71	0.8	62.7	6.19	0.62	0.71	0.8				
	2950	78.9	4.53	0.64	0.73	0.82	75.6	5.05	0.64	0.73	0.83	72.2	5.63	0.64	0.74	0.84	68.4	6.29	0.64	0.75	0.85				
	3540	84.1	4.6	0.66	0.75	0.85	80.6	5.13	0.66	0.76	0.86	76.9	5.7	0.66	0.77	0.88	72.8	6.36	0.67	0.78	0.89				
67°F	2360	76.1	4.49	0.53	0.6	0.67	72.8	5	0.52	0.6	0.67	69.5	5.59	0.51	0.6	0.68	66.1	6.25	0.5	0.59	0.68				
	2950	82.8	4.58	0.53	0.61	0.7	79.5	5.1	0.52	0.62	0.7	75.9	5.68	0.52	0.62	0.71	72.1	6.35	0.52	0.62	0.71				
	3540	88.3	4.66	0.54	0.63	0.72	84.8	5.19	0.54	0.63	0.73	80.9	5.77	0.54	0.64	0.74	76.7	6.43	0.53	0.64	0.75				
71°F	2360	79.3	4.53	0.42	0.5	0.57	76.2	5.05	0.41	0.5	0.57	72.9	5.64	0.4	0.49	0.57	69.2	6.29	0.39	0.49	0.57				
	2950	86.5	4.63	0.42	0.51	0.59	83.2	5.16	0.41	0.51	0.59	79.4	5.74	0.41	0.51	0.59	75.4	6.4	0.4	0.5	0.6				
	3540	92.3	4.72	0.43	0.52	0.61	88.6	5.25	0.42	0.52	0.61	84.6	5.83	0.42	0.52	0.62	80.4	6.49	0.41	0.52	0.62				

### 30 TON HIGH EFFICIENCY LCH360H4V (2 COMPRESSORS OPERATING) - VARIABLE AIR VOLUME

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		65°F						75°F						85°F						95°F					
		Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)						
				Dry Bulb	Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb	Dry Bulb				
63°F	4720	188.3	9.54	0.69	0.8	0.92	180.7	10.59	0.69	0.81	0.93	172.1	11.74	0.7	0.83	0.95	162.3	13.04	0.71	0.84	0.97				
	5900	198.9	9.7	0.72	0.86	0.98	190.5	10.74	0.73	0.87	1	181.1	11.9	0.74	0.89	1	170.8	13.19	0.75	0.91	1				
	7080	206.4	9.82	0.76	0.91	1	197.8	10.86	0.77	0.93	1	188	12.02	0.78	0.95	1	177.2	13.31	0.8	0.97	1				
67°F	4720	197.6	9.68	0.56	0.67	0.77	189.7	10.73	0.56	0.67	0.78	180.7	11.89	0.56	0.68	0.8	171	13.2	0.56	0.69	0.81				
	5900	208.9	9.86	0.58	0.7	0.83	200.3	10.91	0.58	0.71	0.84	190.5	12.06	0.58	0.72	0.86	180	13.36	0.59	0.73	0.88				
	7080	216.8	9.99	0.6	0.74	0.88	207.9	11.03	0.6	0.75	0.9	197.6	12.19	0.61	0.76	0.92	186.6	13.48	0.61	0.78	0.94				
71°F	4720	206	9.81	0.44	0.54	0.65	198.1	10.87	0.43	0.54	0.65	189	12.03	0.43	0.54	0.66	178.8	13.33	0.42	0.55	0.67				
	5900	217.8	10.01	0.44	0.57	0.68	209.2	11.05	0.44	0.57	0.69	199.2	12.21	0.44	0.57	0.7	188.4	13.51	0.44	0.58	0.71				
	7080	226.4	10.15	0.45	0.59	0.72	217.4	11.2	0.45	0.59	0.73	206.9	12.36	0.45	0.6	0.74	195.6	13.66	0.45	0.61	0.76				

### 30 TON HIGH EFFICIENCY LCH360H4V (3 COMPRESSORS OPERATING) - VARIABLE AIR VOLUME

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																							
		65°F						75°F						85°F						95°F					
		Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)						
				Dry Bulb	Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb	Dry Bulb				
63°F	7080	289.6	14.37	0.7	0.81	0.9	279.4	15.96	0.7	0.82	0.91	266.5	17.72	0.71	0.83	0.91	251.4	19.67	0.71	0.84	0.92				
	8850	304.2	14.6	0.73	0.86	0.93	293.5	16.19	0.74	0.87	0.94	279.4	17.94	0.74	0.88	0.95	264.5	19.9	0.76	0.89	0.95				
	10620	315.8	14.79	0.77	0.9	0.96	305.2	16.39	0.78	0.9	0.97	291.4	18.15	0.79	0.91	0.98	276	20.12	0.81	0.92	0.99				
67°F	7080	305.3	14.62	0.56	0.67	0.78	295	16.22	0.56	0.67	0.79	281.3	17.97	0.56	0.68	0.8	265.9	19.93	0.56	0.69	0.82				
	8850	320.2	14.87	0.58	0.71	0.84	309.1	16.46	0.59	0.71	0.85	294.5	18.21	0.59	0.72	0.86	278	20.16	0.59	0.74	0.87				
	10620	330.9	15.04	0.6	0.75	0.88	319.2	16.63	0.61	0.76	0.89	303.9	18.38	0.61	0.77	0.89	286.2	20.31	0.62	0.79	0.9				
71°F	7080	320.8	14.87	0.44	0.55	0.65	310	16.47	0.43	0.54	0.66	296.1	18.24	0.43	0.55	0.66	280.2	20.21	0.43	0.55	0.67				
	8850	336.1	15.13	0.44	0.57	0.69	324.8	16.72	0.44	0.57	0.69	309.8	18.49	0.44	0.57	0.71	292.6	20.44	0.43	0.58	0.72				
	10620	347.4	15.34	0.44	0.59	0.7	335.4	16.92	0.44	0.6	0.74	319.6	18.66	0.43	0.6	0.75	301.9	20.61	0.43	0.61	0.77				

### 30 TON HIGH EFFICIENCY LCH360H4V (All COMPRESSORS OPERATING) - VARIABLE AIR VOLUME

Entering Wet Bulb Temper- ature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																					
85°F						95°F						105°F						115°F					
Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)			Total Cool Cap. kBtuh	Comp. Motor Input kW	Sensible To Total Ratio (S/T)						




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## 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 22 for wet coil and option/accessory air resistance data.  
See page 22 for factory installed drive kit specifications.

## MINIMUM AIR VOLUME REQUIRED FOR USE WITH OPTIONAL ELECTRIC HEAT

All units require 10,500 cfm minimum air with electric heat.

Air Volume cfm	TOTAL STATIC PRESSURE - In. w.g.												2.60														
	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	BHP	RPM	BHP												
4000	372	0.26	433	0.65	497	0.99	565	1.27	630	1.54	687	1.79	738	2.04	784	2.30	824	2.56	861	2.82	897	3.10	932	3.40	---	---	
4500	382	0.41	441	0.79	506	1.12	574	1.41	638	1.69	694	1.95	744	2.22	790	2.50	831	2.77	868	3.05	903	3.35	938	3.66	974	4.01	4.30
5000	392	0.56	451	0.93	516	1.25	584	1.55	646	1.85	702	2.12	751	2.41	796	2.70	837	3.00	874	3.30	909	3.61	944	3.93	980	4.30	4.30
5500	402	0.73	462	1.08	527	1.40	594	1.72	655	2.02	710	2.31	758	2.61	802	2.92	843	3.24	880	3.56	916	3.88	951	4.22	987	4.60	4.60
6000	414	0.89	473	1.24	539	1.56	605	1.90	665	2.21	718	2.51	766	2.83	809	3.16	850	3.51	887	3.84	922	4.18	957	4.52	994	4.91	4.91
6500	426	1.07	486	1.41	551	1.74	616	2.10	675	2.42	727	2.73	774	3.07	817	3.43	857	3.80	894	4.15	929	4.49	964	4.85	1001	5.24	5.24
7000	439	1.26	499	1.60	565	1.93	628	2.31	685	2.64	737	2.97	782	3.34	825	3.72	864	4.11	901	4.48	937	4.83	971	5.19	1008	5.59	5.59
7500	453	1.46	513	1.79	579	2.14	641	2.55	696	2.88	747	3.24	792	3.63	833	4.04	872	4.45	909	4.83	945	5.20	979	5.56	1016	5.97	5.97
8000	467	1.66	528	2.00	593	2.38	653	2.81	708	3.15	757	3.53	801	3.95	843	4.39	881	4.82	918	5.22	953	5.59	988	5.96	1025	6.37	6.37
8500	483	1.88	544	2.22	608	2.65	667	3.10	720	3.44	768	3.85	812	4.30	852	4.78	890	5.22	927	5.63	962	6.01	997	6.39	1034	6.81	6.81
9000	499	2.11	561	2.47	624	2.95	681	3.41	733	3.76	780	4.20	823	4.69	862	5.19	900	5.65	936	6.07	972	6.46	1007	6.85	1044	7.28	7.28
9500	516	2.36	578	2.75	640	3.26	696	3.73	746	4.10	792	4.58	834	5.11	873	5.64	910	6.12	946	6.54	982	6.93	1018	7.34	1055	7.78	7.78
10,000	534	2.64	596	3.06	657	3.60	711	4.07	760	4.48	805	5.00	845	5.57	884	6.12	921	6.61	957	7.03	992	7.43	1028	7.86	1066	8.32	8.32
10,500	553	2.93	615	3.39	674	3.95	727	4.44	775	4.90	817	5.46	857	6.06	895	6.62	932	7.12	967	7.55	1003	7.96	1039	8.40	1077	8.89	8.89
11,000	572	3.24	634	3.74	692	4.31	744	4.83	789	5.35	830	5.95	869	6.58	907	7.16	943	7.65	978	8.09	1013	8.51	1050	8.98	1089	9.49	9.49
11,500	592	3.58	653	4.12	711	4.70	760	5.27	803	5.85	843	6.49	881	7.13	918	7.71	954	8.21	989	8.65	1025	9.10	1062	9.59	1101	10.12	10.12
12,000	613	3.95	674	4.53	729	5.14	776	5.75	818	6.39	857	7.06	894	7.71	930	8.30	965	8.80	1000	9.25	1036	9.71	1073	10.22	1112	10.77	10.77
12,500	635	4.37	695	4.98	748	5.62	792	6.29	832	6.98	870	7.67	906	8.33	941	8.91	976	9.42	1011	9.87	1048	10.35	1085	10.86	1124	11.42	11.42
13,000	657	4.83	715	5.50	766	6.18	808	6.89	847	7.61	883	8.32	918	8.98	953	9.56	988	10.06	1023	10.52	1059	11.00	---	---	---	---	---
13,500	680	5.35	736	6.06	784	6.78	824	7.53	861	8.29	896	9.00	930	9.66	965	10.24	1000	10.74	1035	11.20	---	---	---	---	---	---	---
14,000	704	5.92	757	6.67	801	7.44	839	8.23	875	9.00	909	9.72	943	10.38	977	10.94	1012	11.43	---	---	---	---	---	---	---	---	---
14,500	727	6.55	777	7.34	818	8.16	854	8.97	889	9.75	922	10.48	955	11.12	11.12	---	---	---	---	---	---	---	---	---	---	---	---
15,000	750	7.23	797	8.07	834	8.92	868	9.75	902	10.54	935	11.26	11.26	---	---	---	---	---	---	---	---	---	---	---	---	---	---

## BLOWER DATA

### FACTORY INSTALLED BELT DRIVE KIT SPECIFICATIONS

Motor Efficiency	Nominal hp	Maximum hp	Drive Kit Number	RPM Range
Standard	5	5.75	5	660 - 810
Standard	5	5.75	6	770 - 965
Standard	5	5.75	7	570 - 720
Standard	5	5.75	8	480 - 630
Standard	5	5.75	9	410 - 535
Standard	7.5	8.63	3	715 - 880
Standard	7.5	8.63	4	770 - 965
Standard	10	11.50	1	740 - 895
Standard	10	11.50	2	870 - 1045

#### NOTES

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

For VFD applications, nominal motor output is also maximum usable motor output.

### FACTORY INSTALLED OPTIONS/FIELD INSTALLED ACCESSORY AIR RESISTANCE

Air Volume cfm	Wet Indoor Coil	Electric Heat	Economizer	Filters		Horizontal Roof Curb
				in. w.g.	in. w.g.	
4000	0.04	0.01	0.00	0.00	0.00	0.04
4500	0.04	0.01	0.00	0.00	0.00	0.05
5000	0.05	0.01	0.00	0.00	0.00	0.06
5500	0.06	0.02	0.01	0.00	0.01	0.07
6000	0.07	0.02	0.01	0.00	0.02	0.08
6500	0.08	0.02	0.01	0.01	0.02	0.09
7000	0.09	0.03	0.02	0.01	0.03	0.10
7500	0.10	0.03	0.02	0.01	0.04	0.11
8000	0.11	0.03	0.02	0.01	0.04	0.13
8500	0.12	0.04	0.03	0.01	0.04	0.15
9000	0.13	0.04	0.04	0.01	0.04	0.17
9500	0.14	0.05	0.04	0.02	0.06	0.19
10,000	0.15	0.05	0.05	0.02	0.06	0.21
10,500	0.16	0.06	0.06	0.02	0.06	0.24
11,000	0.18	0.06	0.07	0.02	0.07	0.27
11,500	0.19	0.07	0.08	0.02	0.08	0.30
12,000	0.20	0.07	0.10	0.02	0.08	0.33
12,500	0.21	0.08	0.11	0.03	0.10	0.37
13,000	0.23	0.08	0.13	0.03	0.10	0.40
13,500	0.24	0.09	0.14	0.03	0.11	0.44
14,000	0.26	0.10	0.16	0.03	0.12	0.49
14,500	0.27	0.10	0.18	0.04	0.13	0.53
15,000	0.29	0.11	0.21	0.04	0.13	0.58

## BLOWER DATA

### POWER EXHAUST FAN PERFORMANCE - STANDARD STATIC

Return Duct Negative Static Pressure		Air Volume Exhausted	
in. w.g.		cfm	
0.00		12,800	
0.05		12,200	
0.10		11,500	
0.15		10,800	
0.20		9900	
0.25		9000	
0.30		7900	
0.35		6750	
0.40		5450	
0.45		4150	
0.50		2900	

### POWER EXHAUST FANS - 50% HIGH STATIC OPERATION

Air Volume cfm	RETURN DUCT NEGATIVE STATIC PRESSURE - In. w.g.																					
	0		0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4000	---	---	415	0.45	460	0.55	500	0.60	545	0.65	585	0.70	625	0.80	670	0.85	710	0.95	750	1.00	795	1.10
4500	---	---	415	0.45	460	0.55	500	0.60	545	0.65	585	0.70	625	0.80	670	0.85	710	0.95	750	1.00	795	1.10
5000	415	0.55	455	0.65	490	0.70	530	0.75	570	0.85	605	0.90	645	1.00	680	1.05	720	1.15	755	1.20	795	1.30
5500	460	0.75	495	0.85	525	0.90	560	0.95	595	1.05	630	1.10	665	1.20	700	1.30	735	1.35	765	1.45	800	1.55
6000	500	1.00	530	1.05	565	1.15	595	1.20	625	1.30	660	1.40	690	1.45	720	1.55	750	1.65	785	1.70	815	1.80
6500	540	1.25	570	1.30	600	1.40	630	1.50	660	1.60	685	1.65	715	1.75	745	1.85	775	1.95	805	2.05	830	2.10
7000	585	1.55	610	1.65	635	1.70	665	1.85	690	1.90	720	2.00	745	2.10	770	2.20	800	2.30	825	2.40	855	2.50
7500	625	1.90	650	2.00	675	2.10	700	2.20	725	2.30	750	2.40	775	2.50	800	2.60	825	2.70	850	2.80	875	2.90
8000	665	2.30	690	2.40	715	2.55	735	2.60	760	2.70	785	2.85	810	2.95	830	3.05	855	3.15	880	3.25	905	3.40
8500	710	2.80	730	2.90	755	3.00	775	3.10	795	3.20	820	3.35	840	3.45	865	3.55	885	3.65	910	3.80	930	3.90

### POWER EXHAUST FANS - 100% HIGH STATIC OPERATION

Air Volume cfm	RETURN DUCT NEGATIVE STATIC PRESSURE - In. w.g.																					
	0		0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8500	475	1.30	500	1.30	525	1.40	550	1.50	585	1.60	625	1.75	670	1.90	710	2.10	745	2.30	780	2.50	815	2.70
9000	520	1.55	535	1.60	550	1.65	570	1.70	605	1.85	640	1.95	685	2.15	720	2.35	760	2.55	790	2.75	825	3.00
9500	550	1.80	560	1.85	575	1.90	600	2.00	620	2.10	655	2.20	695	2.40	735	2.60	770	2.80	800	3.00	835	3.25
10,000	575	2.10	590	2.15	605	2.20	620	2.30	645	2.40	675	2.50	710	2.65	745	2.85	780	3.05	815	3.30	845	3.50
10,500	605	2.45	615	2.45	625	2.50	645	2.60	670	2.75	690	2.80	725	3.00	755	3.15	790	3.35	825	3.60	855	3.80
11,000	630	2.80	645	2.85	660	2.95	675	3.00	685	3.05	715	3.20	740	3.30	770	3.50	805	3.70	835	3.90	870	4.20
11,500	665	3.25	675	3.30	680	3.30	695	3.40	715	3.50	735	3.60	755	3.70	785	3.85	815	4.05	850	4.30	880	4.50
12,000	685	3.60	700	3.70	710	3.75	725	3.85	740	3.95	755	4.00	780	4.15	805	4.30	830	4.45	860	4.65	890	4.90
12,500	720	4.10	730	4.20	740	4.25	750	4.30	765	4.40	780	4.50	800	4.60	820	4.75	845	4.90	875	5.10	905	5.35
13,000	745	4.60	750	4.65	765	4.75	780	4.85	790	4.90	805	5.00	820	5.10	840	5.25	865	5.40	890	5.60	915	5.80
13,500	775	5.15	785	5.25	795	5.35	805	5.40	815	5.50	830	5.60	845	5.70	865	5.80	880	5.95	905	6.10	930	6.30
14,000	805	5.80	810	5.80	820	5.90	830	6.00	845	6.10	855	6.20	870	6.30	885	6.40	905	6.55	925	6.70	---	---

### HIGH STATIC POWER EXHAUST FANS WITH CONSTANT AIR VOLUME – DRIVE KIT SPECIFICATIONS

Power Exhaust Fan Model No.	Motor HP	Drive Kit Number	RPM Range
LAPEB30/36A (50%)	(2) 2 hp	1	406 - 533
LAPEB30/36B (50%)	(2) 2 hp	2	531 - 731
LAPEB30/36C (50%)	(2) 2 hp	3	731 - 932
LAPEB30/36D (100%)	(3) 2 hp	1	406 - 533
LAPEB30/36E (100%)	(3) 2 hp	2	531 - 731
LAPEB30/36F (100%)	(3) 2 hp	3	731 - 932

NOTE – Using total air volume and system static pressure requirements, determine from blower performance tables rpm and motor output required.

## BLOWER DATA

### CEILING DIFFUSER AIR RESISTANCE - in. w.g.

Air Volume cfm	Step-Down Diffuser			Flush Diffuser
	LARTD30/36S			LAFD30/36S
	2 Ends Open	1 Side/2 Ends Open	All Ends & Sides Open	
7500	0.37	0.31	0.25	0.29
8000	0.42	0.36	0.29	0.34
8500	0.48	0.41	0.34	0.39
9000	0.55	0.47	0.39	0.44
9500	0.62	0.53	0.45	0.51
10,000	0.70	0.60	0.51	0.57
10,500	0.78	0.68	0.58	0.65
11,000	0.87	0.76	0.65	0.72
11,500	0.97	0.85	0.73	0.81
12,000	1.08	0.94	0.82	0.9
12,500	1.19	1.04	0.91	0.99
13,000	1.30	1.15	1.00	1.10
13,500	1.43	1.26	1.10	1.20
14,000	1.56	1.38	1.20	1.31
14,500	1.69	1.50	1.31	1.43
15,000	1.84	1.63	1.43	1.56

### CEILING DIFFUSER AIR THROW DATA - ft.

Air Volume cfm	¹ Effective Throw Range - ft.	
	Step-Down	Flush
9000	40 - 47	29 - 35
9500	43 - 50	33 - 41
10,000	46 - 54	37 - 46
10,500	50 - 58	42 - 51
11,000	53 - 61	46 - 56
11,500	55 - 64	50 - 61
12,000	58 - 67	54 - 66
12,500	61 - 71	58 - 71
13,000	64 - 74	62 - 75
13,500	67 - 77	66 - 79

<sup>¹</sup> Throw is the horizontal or vertical distance an airstream travels on leaving the outlet or diffuser before the maximum velocity is reduced to 50 ft. per minute. Four sides open.

**ELECTRICAL DATA****20 TON****LCH242H4V****20 TON HIGH EFFICIENCY - VARIABLE AIR VOLUME (VAV)**

<sup>1</sup> Voltage - 60hz		208/230V - 3 Ph		460V - 3 Ph			575V - 3 Ph			
Compressor 1	Rated Load Amps	13.5			8			5		
	Locked Rotor Amps	109			59			40		
Compressor 2	Rated Load Amps	13.5			8			5		
	Locked Rotor Amps	109			59			40		
Compressor 3	Rated Load Amps	13.5			8			5		
	Locked Rotor Amps	109			59			40		
Compressor 4	Rated Load Amps	13.5			8			5		
	Locked Rotor Amps	109			59			40		
Outdoor Fan Motors (6)	Full Load Amps (total)	2.4 (14.4)			1.3 (7.8)			1 (6)		
Standard Power Exhaust (3) 0.33 HP	Full Load Amps (total)	2.4 (7.2)			1.3 (3.9)			1 (3)		
50% High Static Power Exhaust (2) 2 HP	Full Load Amps (total)	7.5 (15)			3.4 (6.8)			2.7 (5.4)		
100% High Static Power Exhaust (3) 2 HP	Full Load Amps (total)	7.5 (22.5)			3.4 (10.2)			2.7 (8.1)		
Service Outlet 115V GFI (amps)		15			15			20		
Indoor Blower Motor	Horsepower	5	7.5	10	5	7.5	10	5	7.5	10
	Full Load Amps	16.7	24.2	30.8	7.6	11	14	6.1	9	11
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	100	110	125	50	60	70	35	45	50
	With (3) 0.33 HP Standard Power Exhaust	110	125	125	60	60	70	40	45	50
	With 50% High Static Power Exhaust (2) 2 HP	110	125	150	60	70	70	45	50	50
	With 100% High Static Power Exhaust (3) 2 HP	125	125	150	60	70	80	45	50	50
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	90	99	107	50	54	58	34	38	40
	With (3) 0.33 HP Standard Power Exhaust	97	106	115	54	58	62	37	41	43
	With 50% High Static Power Exhaust (2) 2 HP	105	114	122	57	61	65	40	43	46
	With 100% High Static Power Exhaust (3) 2 HP	112	122	130	60	64	68	42	46	48

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

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

**ELECTRIC HEAT DATA**
**20 TON**
**20 TON HIGH EFFICIENCY - VARIABLE AIR VOLUME (VAV)**
**LCH242H4V**

1 Voltage - 60hz - 3 phase		208/230V - 3 Ph						460V - 3 Ph			575V - 3 Ph			
Indoor Blower Motor	Horsepower	5		7.5		10		5	7.5	10	5	7.5	10	
Electric Heat Voltage		208V	240V	208V	240V	208V	240V	480V	480V	480V	600V	600V	600V	
<sup>2</sup> Maximum Overcurrent Protection	Unit+ Electric Heat	<b>30 kW</b>	<sup>4</sup> 100	125	<sup>4</sup> 110	125	<sup>4</sup> 125	150	60	60	70	45	50	50
		<b>45 kW</b>	<sup>4</sup> 150	175	<sup>4</sup> 150	175	<sup>4</sup> 175	200	80	90	90	70	70	70
		<b>60 kW</b>	<sup>4</sup> 150	175	<sup>4</sup> 175	200	<sup>4</sup> 175	200	90	90	90	70	70	80
		<b>90 kW</b>	<sup>4</sup> 225	250	<sup>4</sup> 225	250	<sup>4</sup> 250	<sup>4</sup> 300	125	125	150	100	100	110
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	175	175	175	125	150	150
	Unit+ Electric Heat and Standard Power Exhaust (3) 0.33 HP	<b>30 kW</b>	<sup>4</sup> 110	125	<sup>4</sup> 125	150	150	150	60	70	70	50	60	60
		<b>45 kW</b>	<sup>4</sup> 150	175	175	<sup>4</sup> 175	200	90	90	100	100	70	70	80
		<b>60 kW</b>	175	175	<sup>4</sup> 175	200	<sup>4</sup> 175	200	90	100	100	70	80	80
		<b>90 kW</b>	<sup>4</sup> 225	250	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	125	150	150	100	110	110
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	175	175	175	150	150	150
	Unit+ Electric Heat and 50% High Static Power Exhaust (2) 2 HP	<b>30 kW</b>	<sup>4</sup> 125	150	150	150	150	150	70	70	80	60	60	60
		<b>45 kW</b>	175	175	<sup>4</sup> 175	200	<sup>4</sup> 175	200	90	90	100	70	80	80
		<b>60 kW</b>	<sup>4</sup> 175	200	<sup>4</sup> 175	200	<sup>4</sup> 200	225	100	100	100	80	80	80
		<b>90 kW</b>	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	150	150	150	110	110	110
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	350	<sup>4</sup> 350	175	175	175	150	150	150
	Unit+ Electric Heat and 100% High Static Power Exhaust (3) 2 HP	<b>30 kW</b>	150	150	150	150	<sup>4</sup> 150	175	70	80	80	60	60	60
		<b>45 kW</b>	<sup>4</sup> 175	200	200	200	<sup>4</sup> 200	225	90	100	100	80	80	80
		<b>60 kW</b>	<sup>4</sup> 175	200	<sup>4</sup> 200	225	<sup>4</sup> 200	225	100	100	110	80	80	90
		<b>90 kW</b>	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	300	<sup>4</sup> 300	150	150	150	110	110	125
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	350	<sup>4</sup> 350	<sup>4</sup> 350	<sup>4</sup> 400	175	175	175	150	150	150
<sup>3</sup> Minimum Circuit Ampacity	Unit+ Electric Heat	<b>30 kW</b>	100	112	109	121	117	129	55	59	63	44	48	50
		<b>45 kW</b>	139	157	148	166	156	174	78	82	86	62	66	68
		<b>60 kW</b>	146	166	156	175	164	183	82	86	90	66	69	72
		<b>90 kW</b>	209	238	218	247	227	256	118	123	126	95	98	101
		<b>120 kW</b>	272	310	281	319	289	328	154	159	162	124	127	130
	Unit+ Electric Heat and Standard Power Exhaust (3) 0.33 HP	<b>30 kW</b>	109	121	118	130	126	138	60	64	68	48	52	54
		<b>45 kW</b>	148	166	157	175	165	183	83	87	91	66	70	72
		<b>60 kW</b>	155	175	165	184	173	192	87	91	95	70	73	76
		<b>90 kW</b>	218	247	227	256	236	265	123	127	131	98	102	105
		<b>120 kW</b>	281	319	290	328	298	337	159	163	167	127	131	133
	Unit+ Electric Heat and 50% High Static Power Exhaust (2) 2 HP	<b>30 kW</b>	118	130	128	140	136	148	64	68	72	51	55	57
		<b>45 kW</b>	157	175	167	185	175	193	86	90	94	69	73	75
		<b>60 kW</b>	165	184	175	194	183	202	91	95	99	73	76	79
		<b>90 kW</b>	228	257	237	266	245	274	127	131	135	101	105	108
		<b>120 kW</b>	290	329	300	338	308	346	163	167	171	130	134	136
	Unit+ Electric Heat and 100% High Static Power Exhaust (3) 2 HP	<b>30 kW</b>	128	140	137	149	145	157	68	72	76	54	58	60
		<b>45 kW</b>	167	185	176	194	184	202	90	95	98	72	76	79
		<b>60 kW</b>	175	194	184	203	192	211	95	99	103	76	80	82
		<b>90 kW</b>	237	266	247	275	255	284	131	135	139	105	108	111
		<b>120 kW</b>	300	338	309	348	317	356	167	171	175	134	137	140

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

<sup>2</sup> HACR type breaker or fuse.

<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

<sup>4</sup> Factory installed circuit breaker not available.

**ELECTRICAL DATA****25 TON****LCH300H4B****25 TON HIGH EFFICIENCY - CONSTANT AIR VOLUME (CAV)**

1 Voltage - 60hz		208/230V - 3 Ph			460V - 3 Ph			575V - 3 Ph		
Compressor 1	Rated Load Amps	22.4			10.6			7.7		
	Locked Rotor Amps	149			75			54		
Compressor 2	Rated Load Amps	22.4			10.6			7.7		
	Locked Rotor Amps	149			75			54		
Compressor 3	Rated Load Amps	22.4			10.6			7.7		
	Locked Rotor Amps	149			75			54		
Compressor 4	Rated Load Amps	22.4			10.6			7.7		
	Locked Rotor Amps	149			75			54		
Outdoor Fan Motors (6)	Full Load Amps (total)	2.4 (14.4)			1.3 (7.8)			1 (6)		
Standard Power Exhaust (3) 0.33 HP	Full Load Amps (total)	2.4 (7.2)			1.3 (3.9)			1 (3)		
50% High Static Power Exhaust (2) 2 HP	Full Load Amps (total)	7.5 (15)			3.4 (6.8)			2.7 (5.4)		
100% High Static Power Exhaust (3) 2 HP	Full Load Amps (total)	7.5 (22.5)			3.4 (10.2)			2.7 (8.1)		
Service Outlet 115V GFI (amps)		15			15			20		
Indoor Blower Motor	Horsepower	5	7.5	10	5	7.5	10	5	7.5	10
	Full Load Amps	16.7	24.2	30.8	7.6	11	14	6.1	9	11
2 Maximum Overcurrent Protection	Unit Only	150	150	150	70	70	80	50	50	60
	With (3) 0.33 HP Standard Power Exhaust	150	150	150	70	70	80	60	60	60
	With 50% High Static Power Exhaust (2) 2 HP	150	150	175	70	80	80	60	60	60
	With 100% High Static Power Exhaust (3) 2 HP	150	175	175	80	80	90	60	60	60
3 Minimum Circuit Ampacity	Unit Only	127	135	143	61	64	68	45	49	51
	With (3) 0.33 HP Standard Power Exhaust	128	134	142	62	65	68	46	48	52
	With 50% High Static Power Exhaust (2) 2 HP	142	150	158	68	71	75	51	54	56
	With 100% High Static Power Exhaust (3) 2 HP	149	157	165	71	75	78	53	57	59

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

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

**ELECTRIC HEAT DATA**
**25 TON**
**25 TON HIGH EFFICIENCY - CONSTANT AIR VOLUME (CAV)**
**LCH300H4B**

1 Voltage - 60hz - 3 phase		208/230V - 3 Ph						460V - 3 Ph			575V - 3 Ph			
Indoor Blower Motor	Horsepower	5		7.5		10		5	7.5	10	5	7.5	10	
Electric Heat Voltage		208V	240V	208V	240V	208V	240V	480V	480V	480V	600V	600V	600V	
<sup>2</sup> Maximum Overcurrent Protection	Unit+ Electric Heat	<b>30 kW</b>	150	150	150	150	150	70	70	80	50	50	60	
		<b>45 kW</b>	<sup>4</sup> 150	175	<sup>4</sup> 150	175	175	80	90	90	70	70	70	
		<b>60 kW</b>	<sup>4</sup> 150	175	175	<sup>4</sup> 175	200	90	90	90	70	70	80	
		<b>90 kW</b>	<sup>4</sup> 225	250	<sup>4</sup> 225	250	<sup>4</sup> 250	<sup>4</sup> 300	125	125	150	100	100	110
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	4 350	<sup>4</sup> 300	<sup>4</sup> 350	175	175	175	125	150	150
	Unit+ Electric Heat and Standard Power Exhaust (3) 0.33 HP	<b>30 kW</b>	150	150	150	150	150	70	70	70	50	50	60	
		<b>45 kW</b>	<sup>4</sup> 150	175	<sup>4</sup> 150	175	175	80	90	90	70	70	70	
		<b>60 kW</b>	<sup>4</sup> 150	175	175	<sup>4</sup> 175	200	90	90	100	70	70	80	
		<b>90 kW</b>	<sup>4</sup> 225	250	<sup>4</sup> 225	250	<sup>4</sup> 250	<sup>4</sup> 300	125	125	150	100	100	110
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	175	175	175	125	150	150
	Unit+ Electric Heat and 50% High Static Power Exhaust (2) 2 HP	<b>30 kW</b>	150	150	150	150	175	175	70	80	80	60	60	60
		<b>45 kW</b>	175	175	<sup>4</sup> 175	200	<sup>4</sup> 175	200	90	90	100	70	80	80
		<b>60 kW</b>	<sup>4</sup> 175	200	<sup>4</sup> 175	200	<sup>4</sup> 200	225	100	100	100	80	80	80
		<b>90 kW</b>	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	150	150	150	110	110	110
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	350	<sup>4</sup> 350	175	175	175	150	150	150
	Unit+ Electric Heat and 100% High Static Power Exhaust (3) 2 HP	<b>30 kW</b>	150	150	175	175	175	175	80	80	90	60	60	60
		<b>45 kW</b>	<sup>4</sup> 175	200	200	<sup>4</sup> 200	225	90	100	100	80	80	80	80
		<b>60 kW</b>	<sup>4</sup> 175	200	<sup>4</sup> 200	225	<sup>4</sup> 200	225	100	100	110	80	80	90
		<b>90 kW</b>	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	4 300	300	<sup>4</sup> 300	150	150	150	110	110	125
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	350	4 350	<sup>4</sup> 350	<sup>4</sup> 400	175	175	175	150	150	150
<sup>3</sup> Minimum Circuit Ampacity	Unit+ Electric Heat	<b>30 kW</b>	127	127	135	135	143	143	61	64	68	45	49	51
		<b>45 kW</b>	139	157	148	166	156	174	78	82	86	62	66	68
		<b>60 kW</b>	146	166	156	175	164	183	82	86	90	66	69	72
		<b>90 kW</b>	209	238	218	247	227	256	118	123	126	95	98	101
		<b>120 kW</b>	272	310	281	319	289	328	154	159	162	124	127	130
	Unit+ Electric Heat and Standard Power Exhaust (3) 0.33 HP	<b>30 kW</b>	128	128	134	134	142	142	62	65	68	46	48	52
		<b>45 kW</b>	140	158	148	166	157	175	79	83	87	63	66	70
		<b>60 kW</b>	148	167	155	175	165	184	84	87	91	67	70	73
		<b>90 kW</b>	210	239	218	247	227	256	120	123	127	96	98	102
		<b>120 kW</b>	273	311	281	319	290	328	156	159	163	125	127	131
	Unit+ Electric Heat and 50% High Static Power Exhaust (2) 2 HP	<b>30 kW</b>	142	142	150	150	158	158	68	71	75	51	55	57
		<b>45 kW</b>	157	175	167	185	175	193	86	90	94	69	73	75
		<b>60 kW</b>	165	184	175	194	183	202	91	95	99	73	76	79
		<b>90 kW</b>	228	257	237	266	245	274	127	131	135	101	105	108
		<b>120 kW</b>	290	329	300	338	308	346	163	167	171	130	134	136
	Unit+ Electric Heat and 100% High Static Power Exhaust (3) 2 HP	<b>30 kW</b>	149	149	157	157	165	165	71	75	78	54	58	60
		<b>45 kW</b>	167	185	176	194	184	202	90	95	98	72	76	79
		<b>60 kW</b>	175	194	184	203	192	211	95	99	103	76	80	82
		<b>90 kW</b>	237	266	247	275	255	284	131	135	139	105	108	111
		<b>120 kW</b>	300	338	309	348	317	356	167	171	175	134	137	140

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

<sup>2</sup> HACR type breaker or fuse.

<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

<sup>4</sup> Factory installed circuit breaker not available.

**ELECTRICAL DATA**
**25 TON**
**LCH300H4V**
**25 TON HIGH EFFICIENCY - VARIABLE AIR VOLUME (VAV)**

<sup>1</sup> Voltage - 60hz		208/230V - 3 Ph			460V - 3 Ph			575V - 3 Ph		
Compressor 1	Rated Load Amps	22.4			10.6			7.7		
	Locked Rotor Amps	149			75			54		
Compressor 2	Rated Load Amps	22.4			10.6			7.7		
	Locked Rotor Amps	149			75			54		
Compressor 3	Rated Load Amps	22.4			10.6			7.7		
	Locked Rotor Amps	149			75			54		
Compressor 4	Rated Load Amps	22.4			10.6			7.7		
	Locked Rotor Amps	149			75			54		
Outdoor Fan Motors (6)	Full Load Amps (total)	2.4 (14.4)			1.3 (7.8)			1 (6)		
Standard Power Exhaust (3) 0.33 HP	Full Load Amps (total)	2.4 (7.2)			1.3 (3.9)			1 (3)		
50% High Static Power Exhaust (2) 2 HP	Full Load Amps (total)	7.5 (15)			3.4 (6.8)			2.7 (5.4)		
100% High Static Power Exhaust (3) 2 HP	Full Load Amps (total)	7.5 (22.5)			3.4 (10.2)			2.7 (8.1)		
Service Outlet 115V GFI (amps)		15			15			20		
Indoor Blower Motor	Horsepower	5	7.5	10	5	7.5	10	5	7.5	10
	Full Load Amps	16.7	24.2	30.8	7.6	11	14	6.1	9	11
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	150	150	150	70	70	80	50	50	60
	With (3) 0.33 HP Standard Power Exhaust	150	150	175	70	70	80	50	60	60
	With 50% High Static Power Exhaust (2) 2 HP	150	150	175	70	80	80	60	60	60
	With 100% High Static Power Exhaust (3) 2 HP	150	175	175	80	80	90	60	60	60
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	127	135	143	61	64	68	45	49	51
	With (3) 0.33 HP Standard Power Exhaust	134	142	150	65	68	72	48	52	54
	With 50% High Static Power Exhaust (2) 2 HP	142	150	158	68	71	75	51	54	56
	With 100% High Static Power Exhaust (3) 2 HP	149	157	165	71	75	78	53	57	59

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

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

<sup>2</sup> HACR type breaker or fuse.

<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

**ELECTRIC HEAT DATA**
**25 TON**
**25 TON HIGH EFFICIENCY - VARIABLE AIR VOLUME (VAV)**
**LCH300H4V**

1 Voltage - 60hz - 3 phase		208/230V - 3 Ph						460V - 3 Ph			575V - 3 Ph			
Indoor Blower Motor	Horsepower	5		7.5		10		5	7.5	10	5	7.5	10	
Electric Heat Voltage		208V	240V	208V	240V	208V	240V	480V	480V	480V	600V	600V	600V	
<sup>2</sup> Maximum Overcurrent Protection	Unit+ Electric Heat	<b>30 kW</b>	150	150	150	150	150	70	70	80	50	50	60	
		<b>45 kW</b>	<sup>4</sup> 150	175	<sup>4</sup> 150	175	175	80	90	90	70	70	70	
		<b>60 kW</b>	<sup>4</sup> 150	175	175	<sup>4</sup> 175	200	90	90	90	70	70	80	
		<b>90 kW</b>	<sup>4</sup> 225	250	<sup>4</sup> 225	250	<sup>4</sup> 250	<sup>4</sup> 300	125	125	150	100	100	110
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	175	175	175	125	150	150
	Unit+ Electric Heat and Standard Power Exhaust (3) 0.33 HP	<b>30 kW</b>	150	150	150	150	175	70	70	80	50	60	60	
		<b>45 kW</b>	<sup>4</sup> 150	175	175	175	<sup>4</sup> 175	200	90	90	100	70	70	80
		<b>60 kW</b>	175	175	<sup>4</sup> 175	200	<sup>4</sup> 175	200	90	100	100	70	80	80
		<b>90 kW</b>	<sup>4</sup> 225	250	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	125	150	150	100	110	110
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	175	175	175	150	150	150
	Unit+ Electric Heat and 50% High Static Power Exhaust (2) 2 HP	<b>30 kW</b>	150	150	150	150	175	175	70	80	80	60	60	60
		<b>45 kW</b>	175	175	<sup>4</sup> 175	200	<sup>4</sup> 175	200	90	90	100	70	80	80
		<b>60 kW</b>	<sup>4</sup> 175	200	<sup>4</sup> 175	200	<sup>4</sup> 200	225	100	100	100	80	80	80
		<b>90 kW</b>	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	4 300	150	150	150	110	110	110
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	350	<sup>4</sup> 350	175	175	175	150	150	150
	Unit+ Electric Heat and 100% High Static Power Exhaust (3) 2 HP	<b>30 kW</b>	150	150	175	175	175	175	80	80	90	60	60	60
		<b>45 kW</b>	<sup>4</sup> 175	200	200	200	<sup>4</sup> 200	225	90	100	100	80	80	80
		<b>60 kW</b>	<sup>4</sup> 175	200	<sup>4</sup> 200	225	<sup>4</sup> 200	225	100	100	110	80	80	90
		<b>90 kW</b>	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	300	<sup>4</sup> 300	150	150	150	110	110	125
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	350	<sup>4</sup> 350	<sup>4</sup> 350	<sup>4</sup> 400	175	175	175	150	150	150
<sup>3</sup> Minimum Circuit Ampacity	Unit+ Electric Heat	<b>30 kW</b>	127	127	135	135	143	143	61	64	68	45	49	51
		<b>45 kW</b>	139	157	148	166	156	174	78	82	86	62	66	68
		<b>60 kW</b>	146	166	156	175	164	183	82	86	90	66	69	72
		<b>90 kW</b>	209	238	218	247	227	256	118	123	126	95	98	101
		<b>120 kW</b>	272	310	281	319	289	328	154	159	162	124	127	130
	Unit+ Electric Heat and Standard Power Exhaust (3) 0.33 HP	<b>30 kW</b>	134	134	142	142	150	150	65	68	72	48	52	54
		<b>45 kW</b>	148	166	157	175	165	183	83	87	91	66	70	72
		<b>60 kW</b>	155	175	165	184	173	192	87	91	95	70	73	76
		<b>90 kW</b>	218	247	227	256	236	265	123	127	131	98	102	105
		<b>120 kW</b>	281	319	290	328	298	337	159	163	167	127	131	133
	Unit+ Electric Heat and 50% High Static Power Exhaust (2) 2 HP	<b>30 kW</b>	142	142	150	150	158	158	68	71	75	51	55	57
		<b>45 kW</b>	157	175	167	185	175	193	86	90	94	69	73	75
		<b>60 kW</b>	165	184	175	194	183	202	91	95	99	73	76	79
		<b>90 kW</b>	228	257	237	266	245	274	127	131	135	101	105	108
		<b>120 kW</b>	290	329	300	338	308	346	163	167	171	130	134	136
	Unit+ Electric Heat and 100% High Static Power Exhaust (3) 2 HP	<b>30 kW</b>	149	149	157	157	165	165	71	75	78	54	58	60
		<b>45 kW</b>	167	185	176	194	184	202	90	95	98	72	76	79
		<b>60 kW</b>	175	194	184	203	192	211	95	99	103	76	80	82
		<b>90 kW</b>	237	266	247	275	255	284	131	135	139	105	108	111
		<b>120 kW</b>	300	338	309	348	317	356	167	171	175	134	137	140

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

<sup>2</sup> HACR type breaker or fuse.

<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

<sup>4</sup> Factory installed circuit breaker not available.

**ELECTRICAL DATA****30 TON****LCH360H4B****30 TON HIGH EFFICIENCY - CONSTANT AIR VOLUME (CAV)**

<sup>1</sup> Voltage - 60hz		208/230V - 3 Ph		460V - 3 Ph			575V - 3 Ph			
Compressor 1	Rated Load Amps	25		12.2			9			
	Locked Rotor Amps	164		100			78			
Compressor 2	Rated Load Amps	25		12.2			9			
	Locked Rotor Amps	164		100			78			
Compressor 3	Rated Load Amps	25		12.2			9			
	Locked Rotor Amps	164		100			78			
Compressor 4	Rated Load Amps	25		12.2			9			
	Locked Rotor Amps	164		100			78			
Outdoor Fan Motors (6)	Full Load Amps (total)	2.4 (14.4)		1.3 (7.8)			1 (6)			
Standard Power Exhaust (3) 0.33 HP	Full Load Amps (total)	2.4 (7.2)		1.3 (3.9)			1 (3)			
50% High Static Power Exhaust (2) 2 HP	Full Load Amps (total)	7.5 (15)		3.4 (6.8)			2.7 (5.4)			
100% High Static Power Exhaust (3) 2 HP	Full Load Amps (total)	7.5 (22.5)		3.4 (10.2)			2.7 (8.1)			
Service Outlet 115V GFI (amps)		15		15			20			
Indoor Blower Motor	Horsepower	5	7.5	10	5	7.5	10	5	7.5	10
	Full Load Amps	16.7	24.2	30.8	7.6	11	14	6.1	9	11
<sup>2</sup> Maximum Overcurrent Protection	Unit Only	150	150	175	70	80	80	60	60	60
	With (3) 0.33 HP Standard Power Exhaust	150	175	175	80	80	90	60	60	60
	With 50% High Static Power Exhaust (2) 2 HP	175	175	175	80	80	90	60	60	70
	With 100% High Static Power Exhaust (3) 2 HP	175	175	200	80	90	90	60	70	70
<sup>3</sup> Minimum Circuit Ampacity	Unit Only	138	145	153	68	71	75	51	54	56
	With (3) 0.33 HP Standard Power Exhaust	145	153	161	72	75	78	54	57	59
	With 50% High Static Power Exhaust (2) 2 HP	153	160	168	75	78	81	56	59	62
	With 100% High Static Power Exhaust (3) 2 HP	160	168	176	78	81	85	59	62	64

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

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

**ELECTRIC HEAT DATA**
**30 TON**
**30 TON HIGH EFFICIENCY - CONSTANT AIR VOLUME (CAV)**
**LCH360H4B**

1 Voltage - 60hz - 3 phase		208/230V - 3 Ph						460V - 3 Ph			575V - 3 Ph			
Indoor Blower Motor	Horsepower	5		7.5		10		5	7.5	10	5	7.5	10	
Electric Heat Voltage		208V	240V	208V	240V	208V	240V	480V	480V	480V	600V	600V	600V	
<sup>2</sup> Maximum Overcurrent Protection	Unit+ Electric Heat	<b>30 kW</b>	150	150	150	150	175	175	70	80	80	60	60	60
		<b>45 kW</b>	<sup>4</sup> 150	175	<sup>4</sup> 150	175	175	175	80	90	90	70	70	70
		<b>60 kW</b>	<sup>4</sup> 150	175	175	175	<sup>4</sup> 175	200	90	90	90	70	70	80
		<b>90 kW</b>	<sup>4</sup> 225	250	<sup>4</sup> 225	250	<sup>4</sup> 250	<sup>4</sup> 300	125	125	150	100	100	110
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	175	175	175	125	150	150
	Unit+ Electric Heat and Standard Power Exhaust (3) 0.33 HP	<b>30 kW</b>	150	150	175	175	175	175	80	80	90	60	60	60
		<b>45 kW</b>	<sup>4</sup> 150	175	175	175	<sup>4</sup> 175	200	90	90	100	70	70	80
		<b>60 kW</b>	175	175	<sup>4</sup> 175	200	<sup>4</sup> 175	200	90	100	100	70	80	80
		<b>90 kW</b>	<sup>4</sup> 225	250	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	125	150	150	100	110	110
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	175	175	175	150	150	150
	Unit+ Electric Heat and 50% High Static Power Exhaust (2) 2 HP	<b>30 kW</b>	175	175	175	175	175	175	80	80	90	60	60	70
		<b>45 kW</b>	175	175	<sup>4</sup> 175	200	<sup>4</sup> 175	200	90	90	100	70	80	80
		<b>60 kW</b>	<sup>4</sup> 175	200	<sup>4</sup> 175	200	<sup>4</sup> 200	225	100	100	100	80	80	80
		<b>90 kW</b>	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	150	150	150	110	110	110
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	350	<sup>4</sup> 350	175	175	175	150	150	150
	Unit+ Electric Heat and 100% High Static Power Exhaust (3) 2 HP	<b>30 kW</b>	175	175	175	175	200	200	80	90	90	60	70	70
		<b>45 kW</b>	<sup>4</sup> 175	200	200	200	<sup>4</sup> 200	225	90	100	100	80	80	80
		<b>60 kW</b>	<sup>4</sup> 175	200	<sup>4</sup> 200	225	<sup>4</sup> 200	225	100	100	110	80	80	90
		<b>90 kW</b>	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	300	<sup>4</sup> 300	150	150	150	110	110	125
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	350	<sup>4</sup> 350	<sup>4</sup> 350	<sup>4</sup> 400	175	175	175	150	150	150
<sup>3</sup> Minimum Circuit Ampacity	Unit+ Electric Heat	<b>30 kW</b>	138	138	145	145	153	153	68	71	75	51	54	56
		<b>45 kW</b>	139	157	148	166	156	174	78	82	86	62	66	68
		<b>60 kW</b>	146	166	156	175	164	183	82	86	90	66	69	72
		<b>90 kW</b>	209	238	218	247	227	256	118	123	126	95	98	101
		<b>120 kW</b>	272	310	281	319	289	328	154	159	162	124	127	130
	Unit+ Electric Heat and Standard Power Exhaust (3) 0.33 HP	<b>30 kW</b>	145	145	153	153	161	161	72	75	78	54	57	59
		<b>45 kW</b>	148	166	157	175	165	183	83	87	91	66	70	72
		<b>60 kW</b>	155	175	165	184	173	192	87	91	95	70	73	76
		<b>90 kW</b>	218	247	227	256	236	265	123	127	131	98	102	105
		<b>120 kW</b>	281	319	290	328	298	337	159	163	167	127	131	133
	Unit+ Electric Heat and 50% High Static Power Exhaust (2) 2 HP	<b>30 kW</b>	153	153	160	160	168	168	75	78	81	56	59	62
		<b>45 kW</b>	157	175	167	185	175	193	86	90	94	69	73	75
		<b>60 kW</b>	165	184	175	194	183	202	91	95	99	73	76	79
		<b>90 kW</b>	228	257	237	266	245	274	127	131	135	101	105	108
		<b>120 kW</b>	290	329	300	338	308	346	163	167	171	130	134	136
	Unit+ Electric Heat and 100% High Static Power Exhaust (3) 2 HP	<b>30 kW</b>	160	160	168	168	176	176	78	81	85	59	62	64
		<b>45 kW</b>	167	185	176	194	184	202	90	95	98	72	76	79
		<b>60 kW</b>	175	194	184	203	192	211	95	99	103	76	80	82
		<b>90 kW</b>	237	266	247	275	255	284	131	135	139	105	108	111
		<b>120 kW</b>	300	338	309	348	317	356	167	171	175	134	137	140

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

<sup>2</sup> HACR type breaker or fuse.

<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

<sup>4</sup> Factory installed circuit breaker not available.

**ELECTRICAL DATA****30 TON****LCH360H4V****30 TON HIGH EFFICIENCY - VARIABLE AIR VOLUME (VAV)**

^ Voltage - 60hz		208/230V - 3 Ph		460V - 3 Ph			575V - 3 Ph		
Compressor 1	Rated Load Amps	25		12.2			9		
	Locked Rotor Amps	164		100			78		
Compressor 2	Rated Load Amps	25		12.2			9		
	Locked Rotor Amps	164		100			78		
Compressor 3	Rated Load Amps	25		12.2			9		
	Locked Rotor Amps	164		100			78		
Compressor 4	Rated Load Amps	25		12.2			9		
	Locked Rotor Amps	164		100			78		
Outdoor Fan Motors (6)	Full Load Amps (total)	2.4 (14.4)		1.3 (7.8)			1 (6)		
Standard Power Exhaust (3) 0.33 HP	Full Load Amps (total)	2.4 (7.2)		1.3 (3.9)			1 (3)		
50% High Static Power Exhaust (2) 2 HP		7.5 (15)		3.4 (6.8)			2.7 (5.4)		
100% High Static Power Exhaust (3) 2 HP		7.5 (22.5)		3.4 (10.2)			2.7 (8.1)		
Service Outlet 115V GFI (amps)		15		15			20		
Indoor Blower Motor	Horsepower	5	7.5	10	5	7.5	10	5	7.5
	Full Load Amps	16.7	24.2	30.8	7.6	11	14	6.1	9
^ Maximum Overcurrent Protection	Unit Only	150	150	175	70	80	80	60	60
	With (3) 0.33 HP Standard Power Exhaust	150	175	175	80	80	90	60	60
	With 50% High Static Power Exhaust (2) 2 HP	175	175	175	80	80	90	60	60
	With 100% High Static Power Exhaust (3) 2 HP	175	175	200	80	90	90	60	70
^ Minimum Circuit Ampacity	Unit Only	138	145	153	68	71	75	51	54
	With (3) 0.33 HP Standard Power Exhaust	145	153	161	72	75	78	54	57
	With 50% High Static Power Exhaust (2) 2 HP	153	160	168	75	78	81	56	59
	With 100% High Static Power Exhaust (3) 2 HP	160	168	176	78	81	85	59	62

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

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

^ HACR type breaker or fuse.

^ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

**ELECTRIC HEAT DATA**
**30 TON**
**30 TON HIGH EFFICIENCY - VARIABLE AIR VOLUME (VAV)**
**LCH360H4V**

1 Voltage - 60hz - 3 phase		208/230V - 3 Ph						460V - 3 Ph			575V - 3 Ph			
Indoor Blower Motor	Horsepower	5		7.5		10		5	7.5	10	5	7.5	10	
Electric Heat Voltage		208V	240V	208V	240V	208V	240V	480V	480V	480V	600V	600V	600V	
<sup>2</sup> Maximum Overcurrent Protection	Unit+ Electric Heat	<b>30 kW</b>	150	150	150	150	175	175	70	80	80	60	60	60
		<b>45 kW</b>	<sup>4</sup> 150	175	<sup>4</sup> 150	175	175	175	80	90	90	70	70	70
		<b>60 kW</b>	<sup>4</sup> 150	175	175	175	<sup>4</sup> 175	200	90	90	90	70	70	80
		<b>90 kW</b>	<sup>4</sup> 225	250	<sup>4</sup> 225	250	<sup>4</sup> 250	<sup>4</sup> 300	125	125	150	100	100	110
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	175	175	175	125	150	150
	Unit+ Electric Heat and Standard Power Exhaust (3) 0.33 HP	<b>30 kW</b>	150	150	175	175	175	175	80	80	90	60	60	60
		<b>45 kW</b>	<sup>4</sup> 150	175	175	175	<sup>4</sup> 175	200	90	90	100	70	70	80
		<b>60 kW</b>	175	175	<sup>4</sup> 175	200	<sup>4</sup> 175	200	90	100	100	70	80	80
		<b>90 kW</b>	<sup>4</sup> 225	250	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	125	150	150	100	110	110
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	175	175	175	150	150	150
	Unit+ Electric Heat and 50% High Static Power Exhaust (2) 2 HP	<b>30 kW</b>	175	175	175	175	175	175	80	80	90	60	60	70
		<b>45 kW</b>	175	175	<sup>4</sup> 175	200	<sup>4</sup> 175	200	90	90	100	70	80	80
		<b>60 kW</b>	<sup>4</sup> 175	200	<sup>4</sup> 175	200	<sup>4</sup> 200	225	100	100	100	80	80	80
		<b>90 kW</b>	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	150	150	150	110	110	110
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	<sup>4</sup> 300	<sup>4</sup> 350	350	<sup>4</sup> 350	175	175	175	150	150	150
	Unit+ Electric Heat and 100% High Static Power Exhaust (3) 2 HP	<b>30 kW</b>	175	175	175	175	200	200	80	90	90	60	70	70
		<b>45 kW</b>	<sup>4</sup> 175	200	200	200	<sup>4</sup> 200	225	90	100	100	80	80	80
		<b>60 kW</b>	<sup>4</sup> 175	200	<sup>4</sup> 200	225	<sup>4</sup> 200	225	100	100	110	80	80	90
		<b>90 kW</b>	<sup>4</sup> 250	<sup>4</sup> 300	<sup>4</sup> 250	<sup>4</sup> 300	300	<sup>4</sup> 300	150	150	150	110	110	125
		<b>120 kW</b>	<sup>4</sup> 300	<sup>4</sup> 350	350	<sup>4</sup> 350	<sup>4</sup> 350	<sup>4</sup> 400	175	175	175	150	150	150
<sup>3</sup> Minimum Circuit Ampacity	Unit+ Electric Heat	<b>30 kW</b>	138	138	145	145	153	153	68	71	75	51	54	56
		<b>45 kW</b>	139	157	148	166	156	174	78	82	86	62	66	68
		<b>60 kW</b>	146	166	156	175	164	183	82	86	90	66	69	72
		<b>90 kW</b>	209	238	218	247	227	256	118	123	126	95	98	101
		<b>120 kW</b>	272	310	281	319	289	328	154	159	162	124	127	130
	Unit+ Electric Heat and Standard Power Exhaust (3) 0.33 HP	<b>30 kW</b>	145	145	153	153	161	161	72	75	78	54	57	59
		<b>45 kW</b>	148	166	157	175	165	183	83	87	91	66	70	72
		<b>60 kW</b>	155	175	165	184	173	192	87	91	95	70	73	76
		<b>90 kW</b>	218	247	227	256	236	265	123	127	131	98	102	105
		<b>120 kW</b>	281	319	290	328	298	337	159	163	167	127	131	133
	Unit+ Electric Heat and 50% High Static Power Exhaust (2) 2 HP	<b>30 kW</b>	153	153	160	160	168	168	75	78	81	56	59	62
		<b>45 kW</b>	157	175	167	185	175	193	86	90	94	69	73	75
		<b>60 kW</b>	165	184	175	194	183	202	91	95	99	73	76	79
		<b>90 kW</b>	228	257	237	266	245	274	127	131	135	101	105	108
		<b>120 kW</b>	290	329	300	338	308	346	163	167	171	130	134	136
	Unit+ Electric Heat and 100% High Static Power Exhaust (3) 2 HP	<b>30 kW</b>	160	160	168	168	176	176	78	81	85	59	62	64
		<b>45 kW</b>	167	185	176	194	184	202	90	95	98	72	76	79
		<b>60 kW</b>	175	194	184	203	192	211	95	99	103	76	80	82
		<b>90 kW</b>	237	266	247	275	255	284	131	135	139	105	108	111
		<b>120 kW</b>	300	338	309	348	317	356	167	171	175	134	137	140

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

<sup>2</sup> HACR type breaker or fuse.

<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

<sup>4</sup> Factory installed circuit breaker not available.

## ELECTRIC HEAT CAPACITIES

Volts Input	30 kW			45 kW			60 kW			90 kW			120 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	kW Input	Btuh Output	No. of Stages
208	22.5	76,800	1	33.8	115,300	2	45.0	153,600	2	67.6	230,700	2	90.2	307,800	2
220	25.2	86,000	1	37.8	129,000	2	50.4	172,000	2	75.6	258,000	2	100.8	344,000	2
230	27.5	93,900	1	41.3	141,000	2	55.1	188,000	2	82.7	282,200	2	110.2	376,100	2
240	30.0	102,400	1	45.0	153,600	2	60.0	204,800	2	90.0	307,100	2	120.0	409,500	2
440	25.2	86,000	1	37.8	129,000	2	50.4	172,000	2	75.6	258,000	2	100.8	344,000	2
460	27.5	93,900	1	41.3	141,000	2	55.1	188,000	2	82.7	282,200	2	110.2	376,100	2
480	30.0	102,400	1	45.0	153,600	2	60.0	204,800	2	90.0	307,100	2	120.0	409,500	2
550	25.2	86,000	1	37.8	129,000	2	50.4	172,000	2	75.6	258,000	2	100.8	344,000	2
575	27.5	93,900	1	41.3	141,000	2	55.1	188,000	2	82.7	282,200	2	110.2	376,100	2
600	30.0	102,400	1	45.0	153,600	2	60.0	204,800	2	90.0	307,100	2	120.0	409,500	2

## ELECTRICAL ACCESSORIES

### 20 TON HIGH EFFICIENCY

LCH242H4

Voltage - 60hz - 3 phase		208/230V			460V			575V		
Indoor Blower Motor Horsepower		5	7.5	10	5	7.5	10	5	7.5	10
Disconnect	Unit Only Unit+ Electric Heat and Standard Power Exhaust (3) 0.33 HP	54W86	54W86	54W86	54W85	54W85	54W85	54W85	54W85	54W85
		54W86	54W86	54W86	54W85	54W85	54W85	54W85	54W85	54W85
		54W86	54W86	54W86	54W85	54W85	54W85	54W85	54W85	54W85
		54W87	54W87	54W87	54W85	54W85	54W86	54W85	54W85	54W85
		54W87	54W87	54W87	54W86	54W86	54W86	54W85	54W86	54W86
		N/A	N/A	N/A	54W86	54W86	54W86	54W86	54W86	54W86
		N/A	N/A	N/A	54W87	54W87	54W87	54W86	54W86	54W86
		0 kW	54W86	54W86	54W87	54W85	54W85	54W85	54W85	54W85
		30 kW	54W86	54W86	54W87	54W85	54W85	54W85	54W85	54W85
		45 kW	54W87	54W87	54W87	54W85	54W86	54W86	54W85	54W85
Unit+ Electric Heat and 50% High Static Power Exhaust (2) 2 HP	Unit+ Electric Heat and 50% High Static Power Exhaust (2) 2 HP	60 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W85	54W86
		90 kW	N/A	N/A	N/A	54W86	54W86	54W86	54W86	54W86
		120 kW	N/A	N/A	N/A	54W87	54W87	54W87	54W86	54W87
		0 kW	54W86	54W87	54W87	54W85	54W85	54W85	54W85	54W85
		30 kW	54W86	54W87	54W87	54W85	54W85	54W85	54W85	54W85
		45 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W85	54W85
		60 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W86	54W86
		90 kW	N/A	N/A	N/A	54W86	54W86	54W86	54W86	54W86
		120 kW	N/A	N/A	N/A	54W87	54W87	54W87	54W86	54W87
		0 kW	54W86	54W87	54W87	54W85	54W85	54W85	54W85	54W85
Unit+ Electric Heat and 100% High Static Power Exhaust (3) 2 HP	Unit+ Electric Heat and 100% High Static Power Exhaust (3) 2 HP	30 kW	54W86	54W87	54W87	54W85	54W85	54W85	54W85	54W85
		45 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W85	54W85
		60 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W86	54W86
		90 kW	N/A	N/A	N/A	54W86	54W86	54W87	54W86	54W86
		120 kW	N/A	N/A	N/A	54W87	54W87	54W87	54W86	54W87

## ELECTRICAL ACCESSORIES

### 25 TON HIGH EFFICIENCY

LCH300H4

Voltage - 60hz - 3 phase		208/230V			460V			575V		
Indoor Blower Motor	Horsepower	5	7.5	10	5	7.5	10	5	7.5	10
Disconnect	Unit Only Unit+ Electric Heat and Standard Power Exhaust (3) 0.33 HP	54W86	54W87	54W87	54W85	54W85	54W85	54W85	54W85	54W85
		0 kW	54W86	54W87	54W87	54W85	54W85	54W85	54W85	54W85
		30 kW	54W86	54W87	54W87	54W85	54W85	54W85	54W85	54W85
		45 kW	54W87	54W87	54W87	54W85	54W85	54W86	54W85	54W85
		60 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W86	54W86
		90 kW	N/A	N/A	N/A	54W86	54W86	54W86	54W86	54W86
		120 kW	N/A	N/A	N/A	54W87	54W87	54W87	54W86	54W86
	Unit+ Electric Heat and 50% High Static Power Exhaust (2) 2 HP	0 kW	54W87	54W87	54W87	54W85	54W85	54W86	54W85	54W85
		30 kW	54W87	54W87	54W87	54W85	54W85	54W86	54W85	54W85
		45 kW	54W87	54W87	54W87	54W85	54W86	54W86	54W85	54W85
		60 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W86	54W86
		90 kW	N/A	N/A	N/A	54W86	54W86	54W86	54W86	54W86
		120 kW	N/A	N/A	N/A	54W87	54W87	54W87	54W86	54W87
		0 kW	54W87	54W87	54W87	54W85	54W86	54W86	54W85	54W85
Disconnect	Unit+ Electric Heat and 100% High Static Power Exhaust (3) 2 HP	30 kW	54W87	54W87	54W87	54W85	54W86	54W86	54W85	54W85
		45 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W85	54W85
		60 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W86	54W86
		90 kW	N/A	N/A	N/A	54W86	54W86	54W87	54W86	54W86
		120 kW	N/A	N/A	N/A	54W87	54W87	54W87	54W86	54W87
		0 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W85	54W85
		120 kW	N/A	N/A	N/A	54W87	54W87	54W87	54W86	54W87

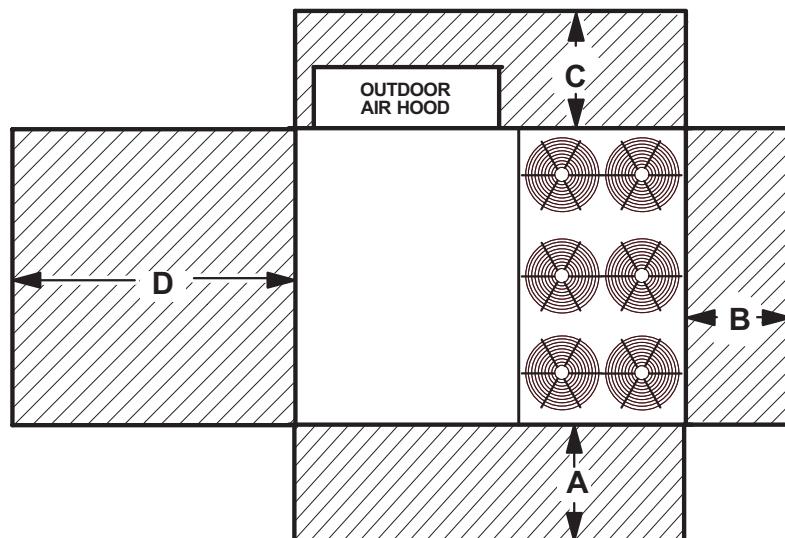
### 30 TON HIGH EFFICIENCY

LCH360H4

Voltage - 60hz - 3 phase		208/230V			460V			575V		
Indoor Blower Motor	Horsepower	5	7.5	10	5	7.5	10	5	7.5	10
Disconnect	Unit Only Unit+ Electric Heat and Standard Power Exhaust (3) 0.33 HP	54W87	54W87	54W87	54W85	54W86	54W86	54W85	54W85	54W85
		0 kW	54W87	54W87	54W87	54W85	54W86	54W86	54W85	54W85
		30 kW	54W87	54W87	54W87	54W85	54W86	54W86	54W85	54W85
		45 kW	54W87	54W87	54W87	54W85	54W86	54W86	54W85	54W85
		60 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W86	54W86
		90 kW	N/A	N/A	N/A	54W86	54W86	54W86	54W86	54W86
		120 kW	N/A	N/A	N/A	54W87	54W87	54W87	54W86	54W86
	Unit+ Electric Heat and 50% High Static Power Exhaust (2) 2 HP	0 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W85	54W85
		30 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W85	54W85
		45 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W85	54W85
		60 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W86	54W86
		90 kW	N/A	N/A	N/A	54W86	54W86	54W86	54W86	54W86
		120 kW	N/A	N/A	N/A	54W87	54W87	54W87	54W86	54W87
		0 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W85	54W85
Disconnect	Unit+ Electric Heat and 100% High Static Power Exhaust (3) 2 HP	30 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W85	54W85
		45 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W85	54W85
		60 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W86	54W86
		90 kW	N/A	N/A	N/A	54W86	54W86	54W87	54W86	54W86
		120 kW	N/A	N/A	N/A	54W87	54W87	54W87	54W86	54W87
		0 kW	54W87	54W87	54W87	54W86	54W86	54W86	54W85	54W85
		120 kW	N/A	N/A	N/A	54W87	54W87	54W87	54W86	54W87

## UNIT CLEARANCES - INCHES (MM)

### Unit With Economizer



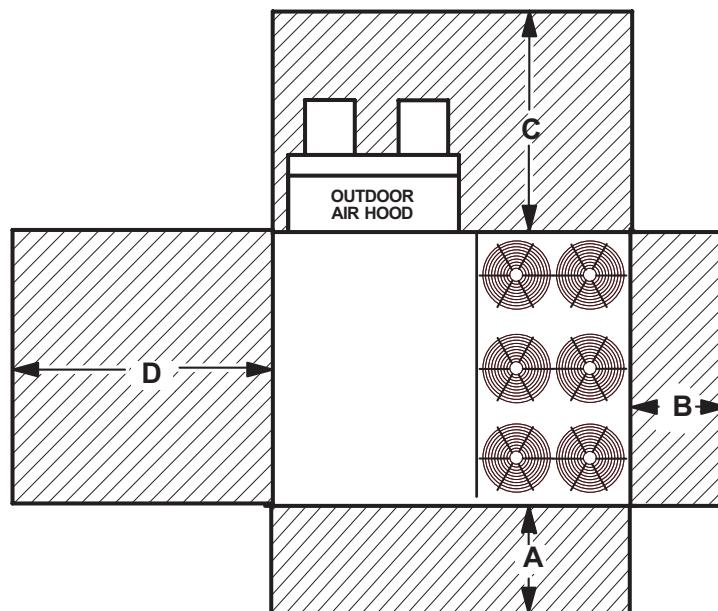
¹ Unit Clearance	A		B		C		D		Top Clearance
	in.	mm	in.	mm	in.	mm	in.	mm	
<b>Service Clearance</b>	60	1524	36	914	36	914	66	1676	Unobstructed
<b>Minimum Operation Clearance</b>	45	1143	36	914	36	914	41	1041	

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 High Static Power Exhaust Fans



¹ Unit Clearance	A		B		C		D		Top Clearance
	in.	mm	in.	mm	in.	mm	in.	mm	
<b>Service Clearance</b>	60	1524	36	914	80	2032	66	1676	Unobstructed
<b>Minimum Operation Clearance</b>	45	1143	36	914	80	2032	41	1041	

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

¹ Service Clearance - Required for removal of serviceable parts.

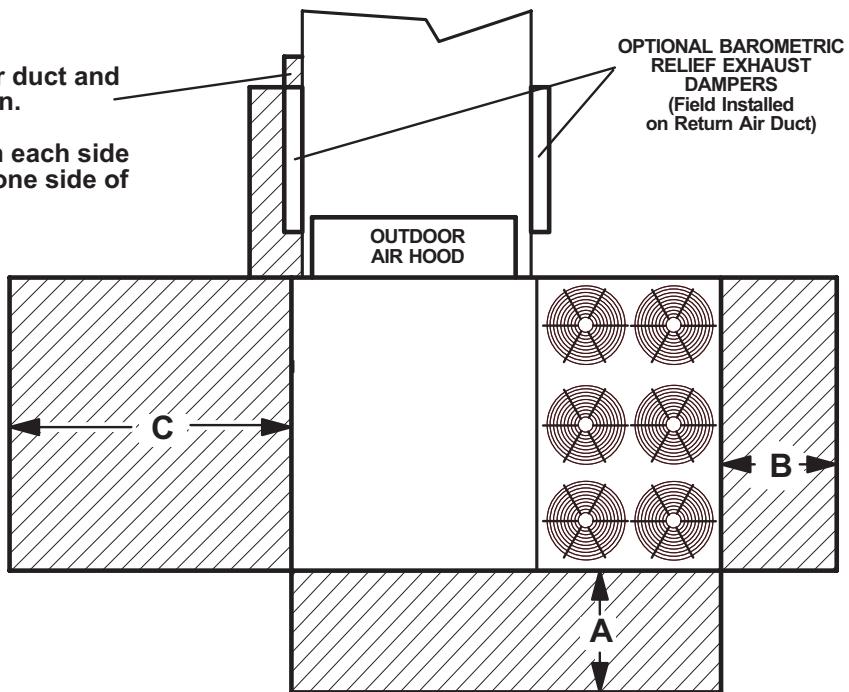
Minimum Operation Clearance - Required clearance for proper unit operation.

## UNIT CLEARANCES - INCHES (MM)

### 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.



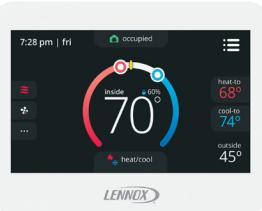
¹ Unit Clearance	A		B		C		Top Clearance
	in.	mm	in.	mm	in.	mm	
<b>Service Clearance</b>	60	1524	36	914	66	1676	Unobstructed
<b>Minimum Operation Clearance</b>	45	1143	36	914	41	1041	

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

<sup>1</sup> **Service Clearance** - Required for removal of serviceable parts.

**Minimum Operation Clearance** - Required clearance for proper unit operation.

## OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

Item	Model No. (Description)	Catalog No.
<b>COMFORTSENSE® 8500 COMMERCIAL 7-DAY PROGRAMMABLE THERMOSTAT - ZONING/NON-ZONING</b>		
 <ul style="list-style-type: none"> <li>• Multi-Stage, Universal Thermostat</li> <li>• Zoning and Non-Zoning Models with or without CO<sub>2</sub> Sensing</li> <li>• Intuitive Touchscreen Interface</li> <li>• Menu-driven Programming</li> <li>• Remote Indoor Temperature Sensing (up to nine averaging sensors)</li> <li>• Compressor Short-Cycle Protection</li> <li>• Relative Humidity Sensor</li> <li>• Occupancy Sensor</li> <li>• Outside Air Temperature Display</li> <li>• Scheduling - Two separate schedules for work days or non-work days</li> <li>• Four Time Periods Per Day (non-zoning models, standalone mode)</li> <li>• Scheduled Occupancy Control</li> <li>• Holiday Scheduling</li> <li>• Performance Reports (non-zoning models, standalone mode)</li> <li>• Reminders - Two Custom and Routine System Checkup (non-zoning models)</li> <li>• Dehumidification/Humiditrol® Control</li> <li>• Backlit Display</li> <li>• Wallplate Furnished</li> </ul>	C0STAT04FF1L (Zoning)	<b>14X57</b>
	C0STAT31FF1L (Zoning with CO <sub>2</sub> Sensing)	<b>14X58</b>
	C0STAT03FF1L (Non-Zoning)	<b>14X55</b>
	C0STAT22FF1L (Non-Zoning with CO <sub>2</sub> Sensing)	<b>14X56</b>

### Optional Accessories

<sup>1</sup> Remote non-adjustable wall mount 10k temperature sensor <sup>1</sup> Remote non-adjustable wall mount 11k temperature sensor Locking cover (clear)	C0SNZN01AE2 C0SNZN08AE1 C0MISC15AE1-	<b>47W37</b> <b>94L61</b> <b>39P21</b>
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<sup>1</sup> Up to nine of the same type remote temperature sensors can be connected in parallel.

### Zonebus Network Cable (Purple) - Zoning Models

Twisted pair 100% shielded communication cable, Red and Black 22 AWG, purple jacket, rated at 75°C, 300V, Plenum rated Insulation - Low smoke PVC, NEC, CMP	500 ft. box - C0MISC05AE1- 1000 ft. box - C0MISC06AE1- 2500 ft. roll - C0MISC07AE1-	<b>23W99</b> <b>24W00</b> <b>24W01</b>
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### Sysbus Network Cable (Yellow) - Non-Zoning Models

Twisted pair 100% shielded communication cable, Red and Black 22 AWG, yellow jacket, rated at 75°C, 300V, Plenum rated Insulation - Low smoke PVC, NEC, CMP	500 ft. box - C0MISC00AE1- 1000 ft. box - C0MISC04AE1- 2500 ft. roll - C0MISC01AE1-	<b>27M19</b> <b>94L63</b> <b>68M25</b>
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## OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

Item	Model No.	Catalog No.
<b>COMFORTSENSE® 7500 COMMERCIAL 7-DAY PROGRAMMABLE THERMOSTAT</b>		
 <ul style="list-style-type: none"> <li>• Four-Stage Heating / Two-Stage Cooling Universal Multi-Stage</li> <li>• Intuitive Touchscreen Interface</li> <li>• Remote Indoor Temperature Sensing with Averaging</li> <li>• Outside or Discharge Air Temperature Display</li> <li>• Full Seven-Day Programming</li> <li>• Four Time Periods Per Day</li> <li>• Occupancy Scheduling with Economizer Relay Control</li> <li>• Away Mode</li> <li>• Holiday Scheduling</li> <li>• Smooth Setback Recovery (SSR)</li> <li>• Performance Reports</li> <li>• Notifications/Reminders</li> <li>• Dehumidification/Humiditrol® Control for Split Systems and Rooftop Units</li> <li>• Economizer Relay Control</li> <li>• Backlit Display</li> <li>• Wallplate Furnished</li> </ul>	C0STAT06FF1L	<b>13H15</b>
<b>Optional Accessories</b>		
1 Remote non-adjustable wall mount 20k temperature sensor	C0SNZN01AE2-	<b>47W36</b>
1 Remote non-adjustable wall mount 10k temperature sensor	C0SNZN73AE1-	<b>47W37</b>
Remote non-adjustable discharge air (duct mount) temperature sensor	C0SNDC00AE1-	<b>19L22</b>
Outdoor temperature sensor	C0SNSR03AE1-	<b>X2658</b>
Locking cover (clear)	C0MISC15AE1-	<b>39P21</b>
<small>1 Remote sensors can be applied in any of the following combinations:</small>		
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		
<b>COMFORTSENSE® 3000 COMMERCIAL 5-2 DAY PROGRAMMABLE THERMOSTAT</b>		
 <ul style="list-style-type: none"> <li>• Two-Stage Heating / Two-Stage Cooling Conventional Systems</li> <li>• Intuitive Interface</li> <li>• 5-2 Day Programming</li> <li>• Program Hold</li> <li>• Remote Indoor Temperature Sensing</li> <li>• Smooth Setback Recovery (SSR)</li> <li>• Economizer Relay Control</li> <li>• Maintenance/Filter/Service Reminders</li> <li>• Backlit Display</li> <li>• Wallplate Furnished</li> <li>• Simple Up and Down Temperature Control.</li> </ul>	C0STAT05FF1L	<b>11Y05</b>
<b>Optional Accessories</b>		
Remote non-adjustable wall mount 10k averaging temperature sensor	C0SNZN73AE1-	<b>47W37</b>
Optional wall mounting plate	C0MISC17AE1-	<b>X2659</b>
<b>DIGITAL NON-PROGRAMMABLE THERMOSTAT</b>		
 <ul style="list-style-type: none"> <li>• One-Stage Heating / Cooling Conventional Systems</li> <li>• Intuitive Interface</li> <li>• Automatic Changeover</li> <li>• Backlit Display</li> <li>• Simple Up and Down Temperature Control.</li> </ul>	C0STAT12AE1L	<b>51M32</b>
<b>Optional Accessories</b>		
Outdoor temperature sensor	C0SNSR04AE1-	<b>X2658</b>
Optional wall mounting plate	C0MISC17AE1-	<b>X2659</b>

## OUTDOOR SOUND DATA

Unit Model Number	Octave Band Linear Sound Power Levels dB, re 10 <sup>-12</sup> Watts - Center Frequency - Hz							<sup>1</sup> Sound Rating Number (SRN) (dBA)
	125	250	500	1000	2000	4000	8000	
242, 300, 360	84	85	90	90	85	80	72	95

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

<sup>1</sup> Sound Rating Number according to ARI Standard 370-2001 (includes pure tone penalty). "SRN" is the overall A-Weighted Sound Power Level, (LWA), dB (100 Hz to 10,000 Hz).

## WEIGHT DATA

Model Number	Net		Shipping	
	Ibs.	kg	Ibs.	kg
242 Base Unit	2997	1359	3207	1455
242 Max. Unit	3409	1546	3619	1642
300 Base Unit	2997	1359	3207	1455
300 Max. Unit	3409	1546	3619	1642
360 Base Unit	2997	1359	3207	1455
360 Max. Unit	3409	1546	3619	1642

## OPTIONS / ACCESSORIES

Description	Shipping Weight		
	Ibs.	kg	
<b>CEILING DIFFUSERS</b>			
Step-Down	LARTD30/36S	625	283
Flush	LAFD30/36S	625	283
Transitions	LASRT30/36	85	39
<b>ECONOMIZER / OUTDOOR AIR / EXHAUST</b>			
Economizer		138	63
Barometric Relief			
Downflow Barometric Relief Dampers		45	20
Horizontal Barometric Relief Dampers		20	9
<b>Outdoor Air Dampers</b>			
Damper Section (downflow)	Motorized	72	33
Damper Section (downflow)	Manual	68	31
Outdoor Air Hood (downflow)		76	34
<b>Power Exhaust</b>			
	Standard Static	99	45
	50% High Static	460	209
100% High Static with or without VFD		525	238
<b>ELECTRIC HEAT</b>			
30 KW		59	27
45 KW		76	34
60 KW		76	34
90 KW		84	38
120 KW		98	44
<b>PACKAGING</b>			
LTL Packaging (less than truck load)		300	136
<b>ROOF CURBS</b>			
Hybrid Roof Curbs, Downflow			
14 in. height		115	52
18 in. height		140	64
24 in. height		170	77
Standard Curbs, Horizontal			
30 in. height		445	202
41 in. height		725	329

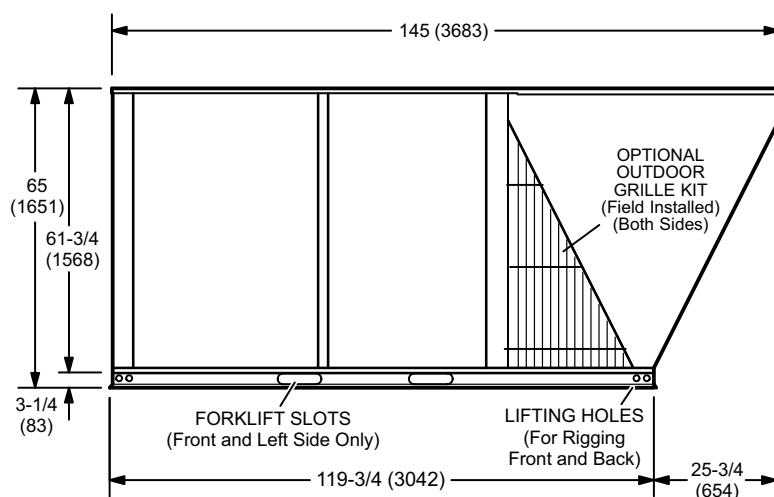
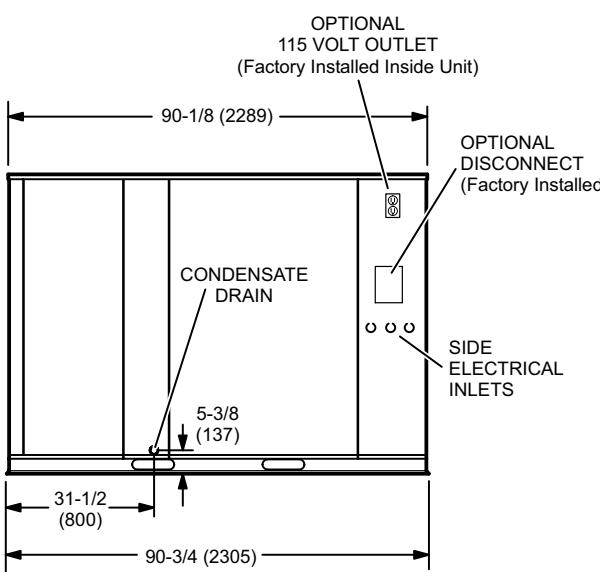
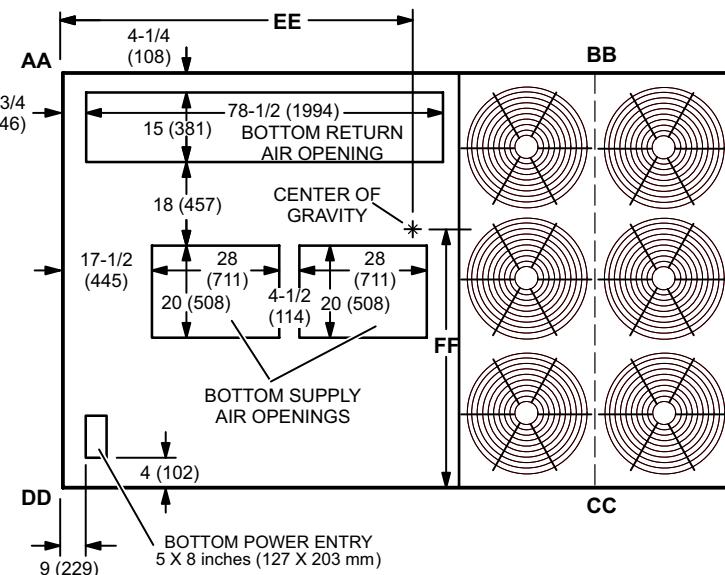
## DIMENSIONS - UNIT - INCHES (MM)

### CORNER WEIGHTS

Model No.	AA		BB		CC		DD		EE		FF	
	Lbs.	kg	Lbs.	kg	Lbs.	kg	Lbs.	kg	in.	mm	in.	mm
LCH242 Base Unit	610	277	612	278	880	399	895	406	60	1524	37	940
LCH242 Max. Unit	693	315	696	316	1001	454	1018	462	60	1524	37	940
LCH300 Base Unit	610	277	612	278	880	399	895	406	60	1524	37	940
LCH300 Max. Unit	693	315	696	316	1001	454	1018	462	60	1524	37	940
LCH360 Base Unit	610	277	612	278	880	399	895	406	60	1524	37	940
LCH360 Max. Unit	693	315	696	316	1001	454	1018	462	60	1524	37	940

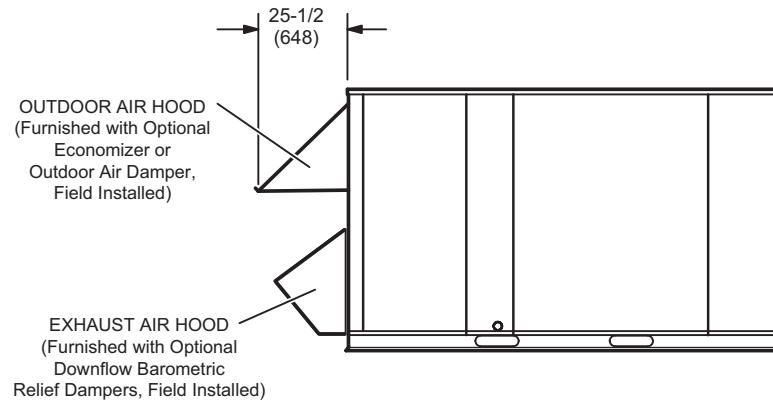
Base Unit - The unit with NO INTERNAL OPTIONS.

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

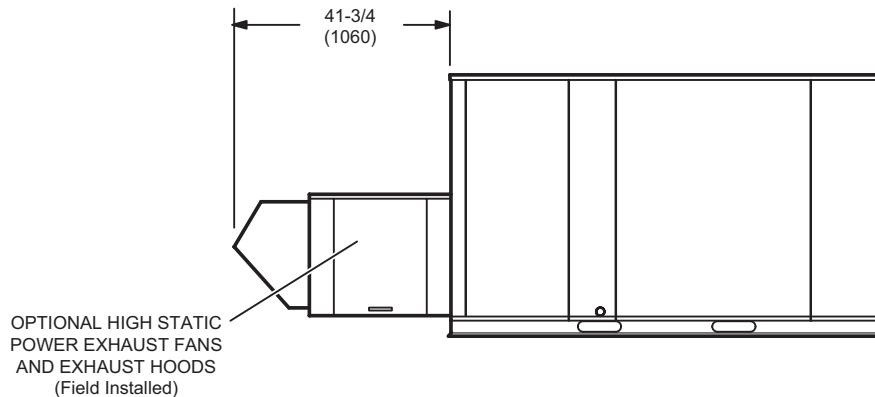


## DIMENSIONS - ACCESSORIES - INCHES (MM)

### OUTDOOR AIR HOOD DETAIL

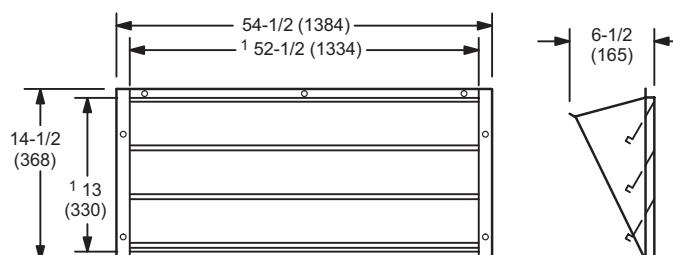


### OPTIONAL HIGH STATIC POWER EXHAUST FANS DETAIL



### OPTIONAL HORIZONTAL BAROMETRIC RELIEF DAMPERS WITH HOOD

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



FRONT VIEW

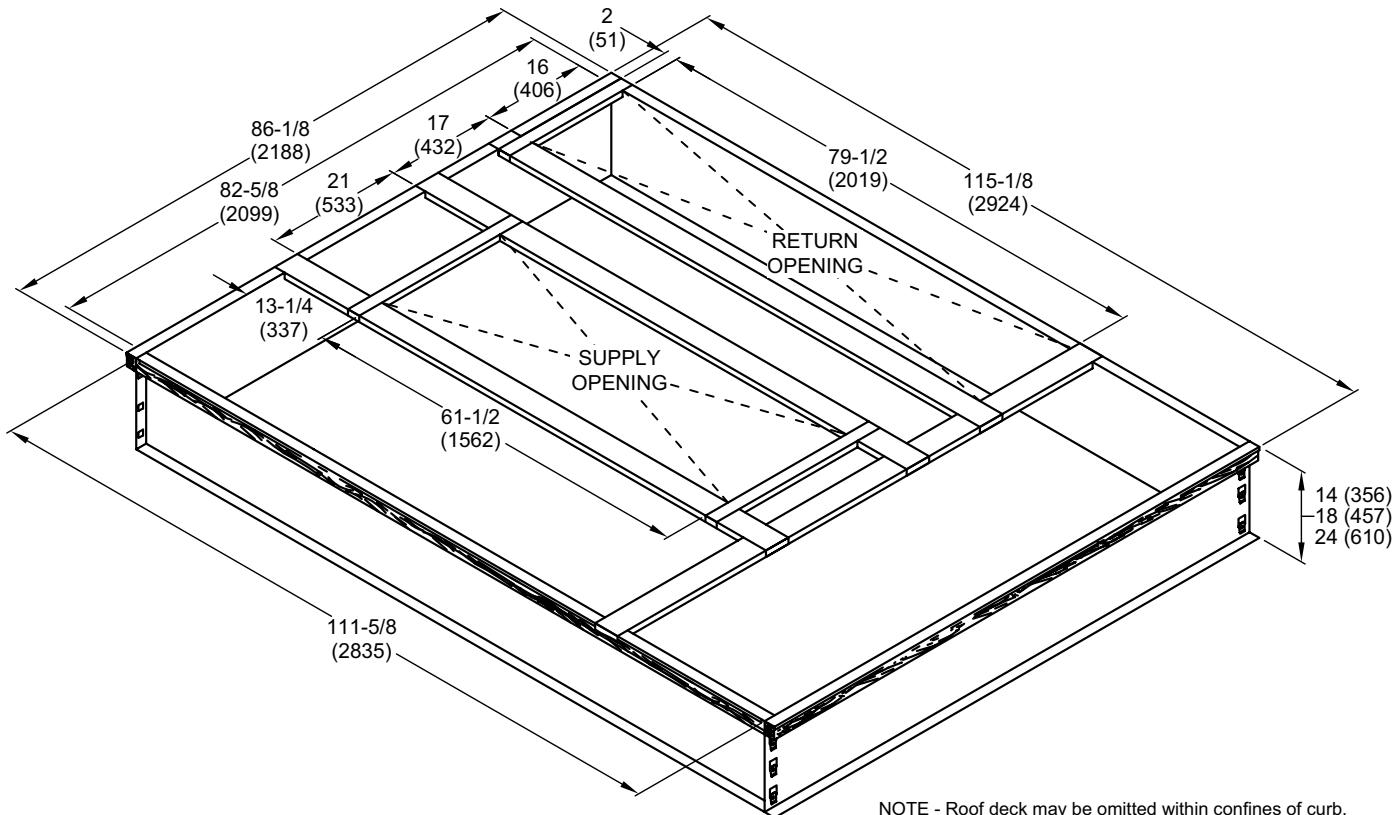
SIDE VIEW

NOTE - Two furnished per order no.

<sup>1</sup> NOTE - Opening size required in return air duct.

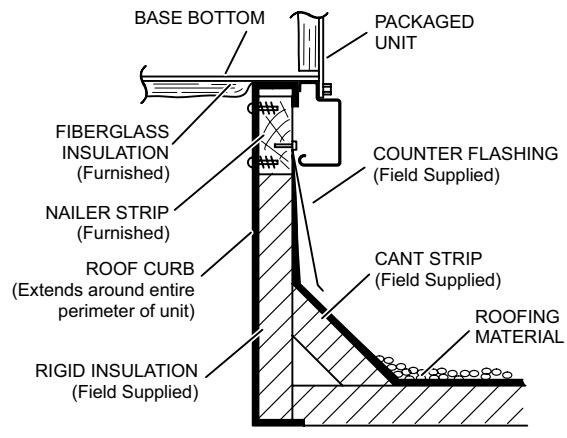
## DIMENSIONS - ACCESSORIES - INCHES (MM)

### HYBRID ROOF CURBS - DOUBLE DUCT OPENING

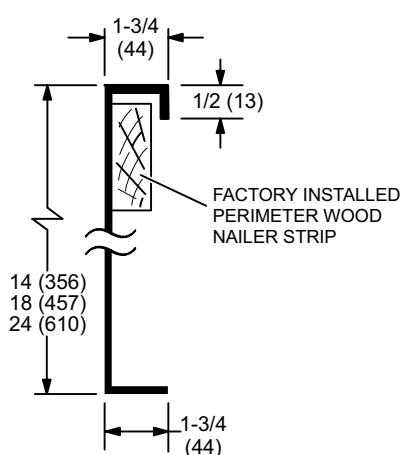


NOTE - Roof deck may be omitted within confines of curb.

### TYPICAL FLASHING DETAIL FOR ROOF CURB

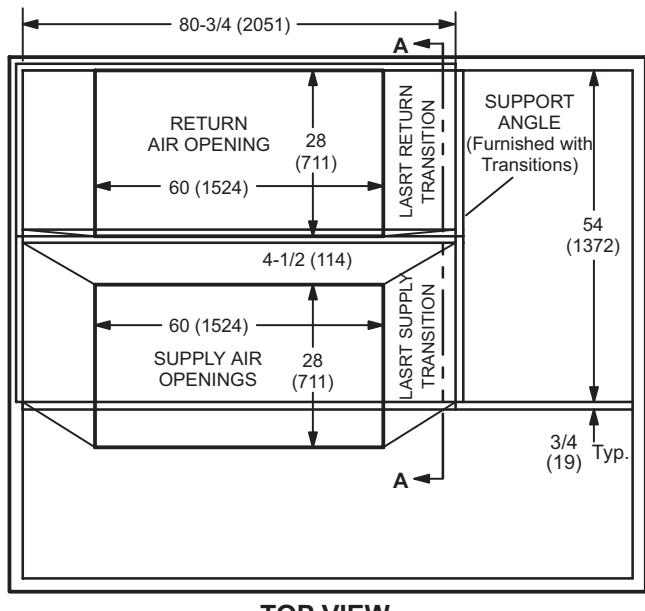


### DETAIL ROOF CURB



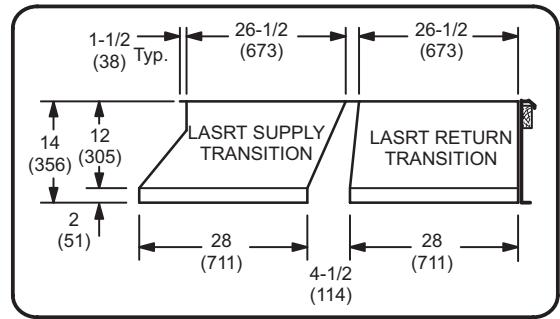
## DIMENSIONS - ACCESSORIES - INCHES (MM)

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



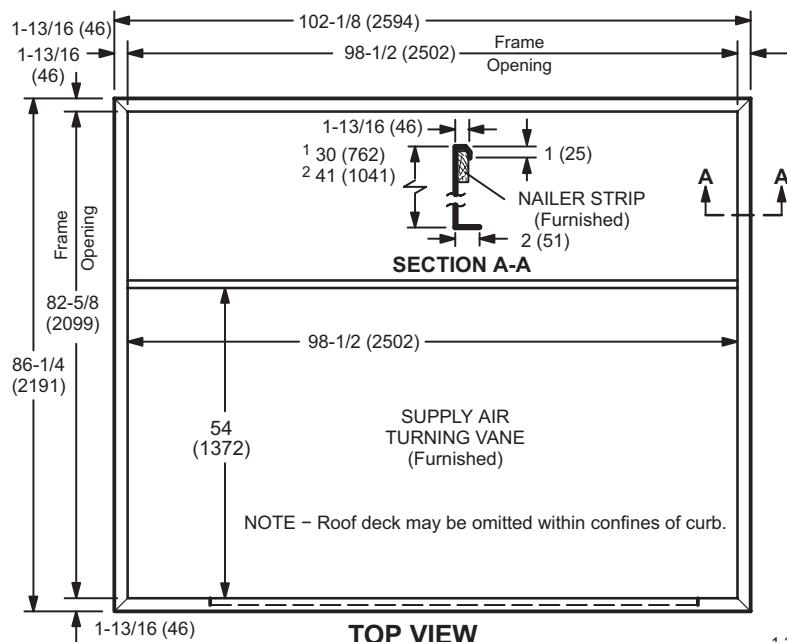
TOP VIEW

### TRANSITION DETAIL



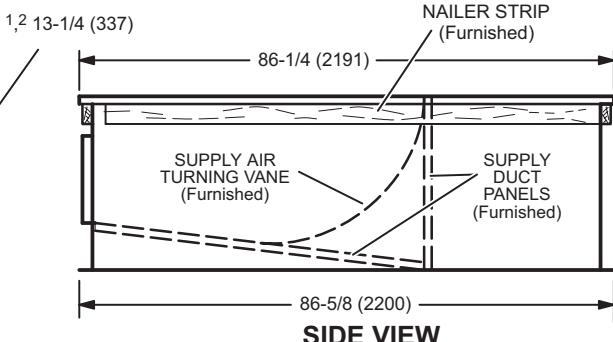
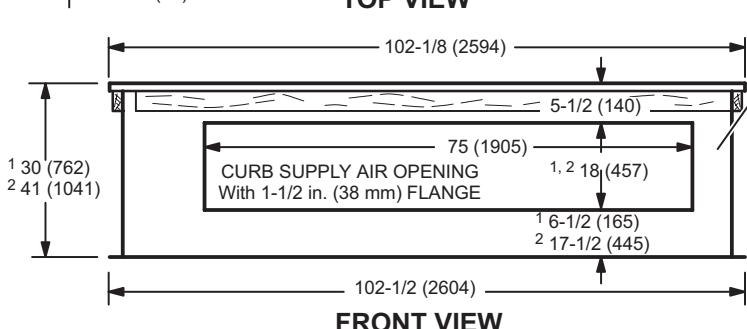
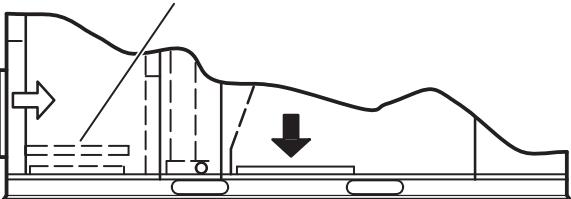
## DIMENSIONS - ACCESSORIES - INCHES (MM)

### HORIZONTAL ROOF CURBS – Requires Optional Horizontal Return Air Panel Kit



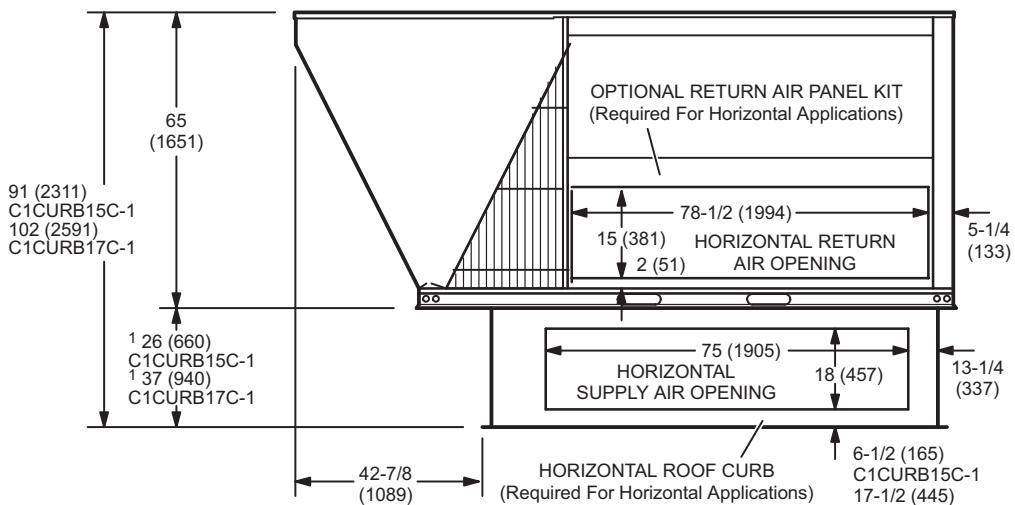
NOTE - C1CURB15C-1 is designed for horizontal discharge when unit is mounted on a slab.  
C1CURB17C-1 is designed for horizontal discharge when unit is mounted on a rooftop.

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



1 C1CURB15C-1    2 C1CURB17C-1

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

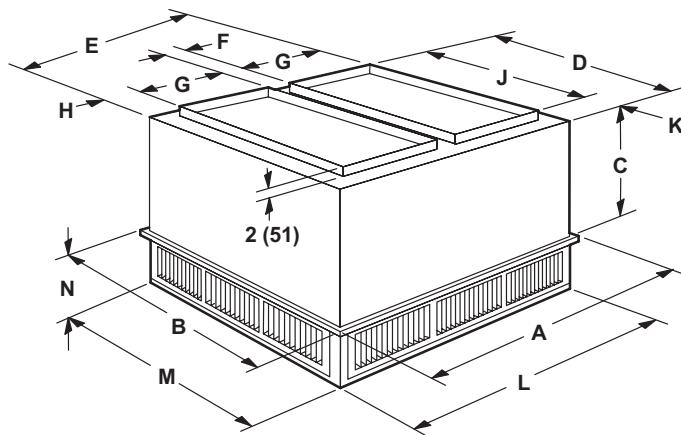


1 NOTE - Top of Curb extends 4 inch (102 mm) inside bottom of unit base. See Typical Flashing Detail.

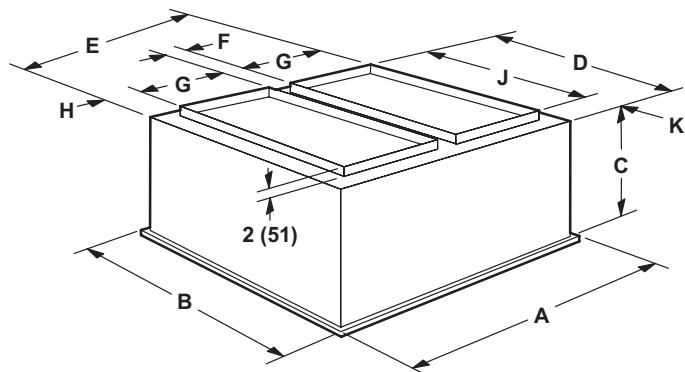
## DIMENSIONS - ACCESSORIES - INCHES (MM)

### COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

#### STEP-DOWN CEILING DIFFUSER



#### FLUSH CEILING DIFFUSER



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

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

## REVISIONS

Section	Description
Optional Accessories	Added Air Movement and Control Association International (AMCA) Class 1A certification for High Performance Economizers.



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