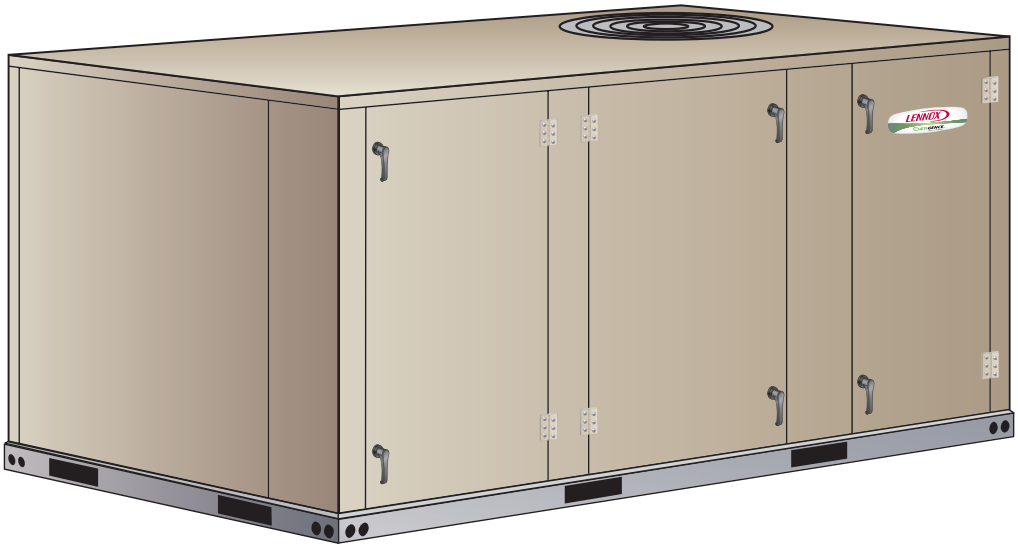
LCH

Energence® Rooftop Units
60 Hz

COMMERCIAL
PRODUCT SPECIFICATIONS

Bulletin No. 210541
March 2021
Supersedes November 2019



ENERGENCE® Saving Energy with Intelligence™

PRODIGY™ CONTROL SYSTEM

SMARTWIRE™ SYSTEM

Environ™ Coil System

Humiditrol

L Connection® NETWORK

ASHRAE 90.1 COMPLIANT

ENERGY STAR

3 to 6 Tons
Net Cooling Capacity - 34,800 to 72,000 Btuh
Optional Electric Heat - 7.5 to 30 kW

MODEL NUMBER IDENTIFICATION

L C H 060 H 4 E N 1 Y

Brand/Family
L = Energence®

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

Major Design Sequence
H = 1st Generation

Nominal Cooling Capacity - Tons
036 = 3 Tons
048 = 4 Tons
060 = 5 Tons
072 = 6 Tons
074 = 6 Tons

Cooling Efficiency
H = High Efficiency
S = Standard Efficiency

Refrigerant Type
4 = R-410A

Blower Type
E = Direct Drive (ECM)
T = Belt Drive (2 Speed)
B = Belt Drive (1 Speed)

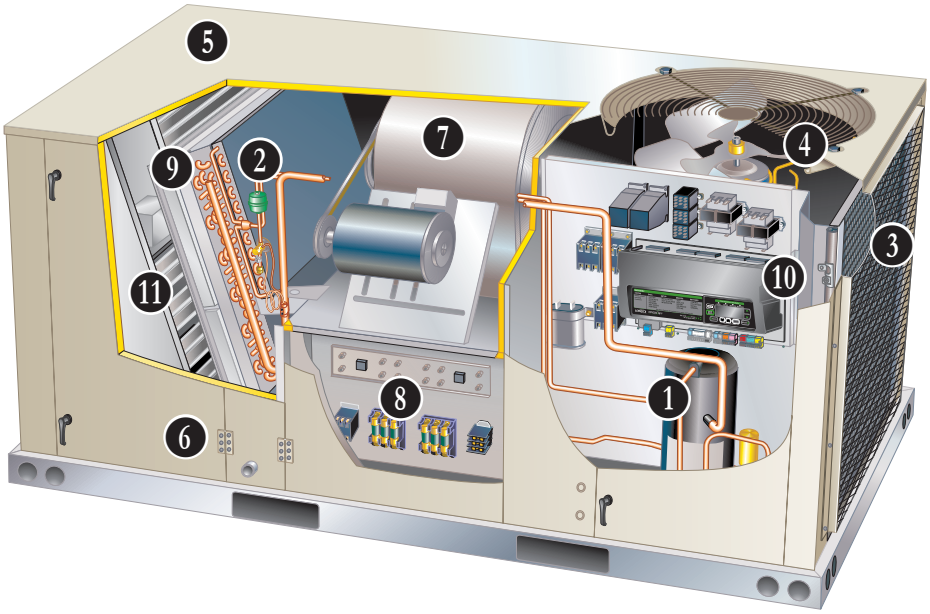
Factory Installed Electric Heat
N = No Heat
C = 7.5 kW Electric Heat
E = 15 kW Electric Heat
G = 22.5 kW Electric Heat
J = 30 kW Electric Heat

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

Voltage
P = 208/230V-1 phase-60hz
Y = 208/230V-3 phase-60hz
G = 460V-3 phase-60hz
J = 575V-3 phase-60hz

FEATURE HIGHLIGHTS

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



1. Two Stage Compressor
2. Filter/Drier
3. Lennox' Environ™ Coil System
4. Variable Speed Outdoor Coil Fan Motor
5. Heavy Gauge Steel Cabinet
6. Hinged Access Panels
7. Supply Air Blower
8. Electric Heat (option)
9. Air Filters
10. Prodigy® Control System
11. Economizer (option)

CONTENTS

Approvals And Warranty 3
Blower Data 29
Cooling Ratings 23
Dimensions 52
- Unit 52
- Accessories 53
Electrical/Electric Heat Data 42
Electric Heat Capacities 50
Feature Highlights 2
Features And Benefits 3
Humiditrol® Dehumidification System Option 11
Humiditrol® Dehumidification System Ratings 27
Model Number Identification 1
Optional Conventional Temperature Control Systems 12
Options / Accessories 17
Outdoor Sound Data 51
Sequence Of Operation 14
Specifications 21
Unit Clearances 50
Weight Data 51
- Unit 51
- Options / Accessories 51

APPROVALS AND WARRANTY

APPROVALS

- AHRI Certified to AHRI Standard 210/240 (3 thru 5 ton models) and AHRI Standard 340/360 (6 ton models)
- ETL and CSA listed
- Efficiency rating certified by CSA
- Components bonded for grounding to meet safety standards for servicing required by UL, ULC and National and Canadian Electrical Codes
- All models are ASHRAE 90.1 compliant
- ENERGY STAR® certified units are designed to use less energy, help save money on utility bills, and help protect the environment
- ISO 9001 Registered Manufacturing Quality System

WARRANTY

- Compressors - Limited five years
- Lennox' Environ™ Coil System - Limited three years
- Prodigy 2.0 Unit Controller - Limited three years
- Optional High Performance Economizers - Limited five years
- All other covered components - Limited one year

FEATURES AND BENEFITS

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

1 Two-Stage Compressor
(3 to 5 Ton and 6 Ton 074 Models)
- Scroll compressors on all models for high performance, reliability, and quiet operation
  - Two-stage scroll compressors are furnished on 3 to 5 ton and 6 ton 074 models for increased part load efficiency
  - Single speed scroll furnished on 6 ton 072 models
- Resiliently mounted on rubber grommets for quiet operation

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

Thermal Expansion Valve
- Ensures optimal performance throughout the application range
- Removable element head

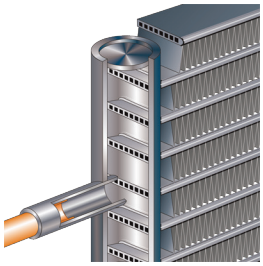
2 Filter/Drier
- High capacity filter/drier protects the system from dirt and moisture

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

Low Pressure Switch
- Protects the compressor from low pressure conditions such as low refrigerant charge, or low/no airflow

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

3 Condenser Coil - 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™ Coil System Features:
- Improved heat transfer performance due to high primary surface area (flat tubes) versus secondary surface (fins)
- Smaller internal volume (reduced refrigerant charge)
- High durability (all aluminum construction)
- Fewer brazed joints
- Compact design (reduces unit weight)
- Easy maintenance/cleaning
- Face-split design
- Mounting brackets with rubber inserts secure coil to unit providing vibration dampening and corrosion protection

COOLING SYSTEM (continued)

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

Condensate Drain Pan
- Plastic pan, sloped to meet drainage requirements of ASHRAE 62.1
- Side or bottom drain connections
- Reversible to allow connection at back of unit

4 Variable Speed Outdoor Coil Fan Motor
- Variable speed (ECM) fan motor for energy efficient MSAV® (Multi-Stage Air Volume) operation and quiet operation
- Thermal overload protected
- Totally enclosed
- Permanently lubricated ball bearings
- Shaft up
- Wire basket mount

Outdoor Coil Fan
- PVC coated fan guard furnished

Required Selections

Cooling Capacity
- Specify nominal cooling capacity

Cooling Efficiency (3 to 5 Ton models only)
- Specify either standard or high efficiency

Options/Accessories

Factory Installed

Conventional Fin/Tube Condenser Coil (replaces Environ™ Coil System)
- Copper tube construction
- Enhanced rippled-edge aluminum fins
- Flared shoulder tubing connections
- Silver soldered construction

Service Valves
- Fully serviceable brass valves installed in discharge & liquid lines

NOTE - Not available for units equipped with Environ™ Coil System or Humiditrol Dehumidification Option.

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

CABINET

5 Construction
- Heavy-gauge steel panels and full perimeter heavy-gauge galvanized steel base rail provides structural integrity for transportation, handling, and installation
- Base rails have rigging holes
- Three sides of the base rail have forklift slots
- Raised edges around duct and power entry openings in the bottom of the unit provide additional protection against water entering the building

Airflow Choice
- Units are shipped in downflow (vertical) configuration
- Can be field converted to horizontal airflow configuration without any optional kits

Duct Flanges
- Provided for horizontal duct attachment

Power 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
- Base insulation serves as an air seal to the roof curb, eliminating the need to add a seal during installation

6 Access Panels
- Hinged tool-less access panels are provided for the economizer/filter section, and compressor/controls section
- All hinged panels have seals and quarter-turn latching handles to provide a tight air and water seal

NOTE - Optional Economizers, Power Exhaust, Outdoor Air Dampers and Barometric Relief Dampers for 060/072/074 models include a filler panel for proper cabinet fit.

CABINET (continued)

Required Selections

Airflow Configuration
- Specify horizontal or downflow

Options/Accessories

Factory Installed

Corrosion Protection
- A completely flexible immersed coating with an electrodeposited dry film process (AST ElectroFin E-Coat)
- Meets Mil Spec MIL-P-53084, ASTM B117 Standard Method Salt Spray Testing
- Indoor Corrosion Protection:
  - Coated coil
  - Coated reheat coil (Humiditrol)
  - Painted blower housing
  - Painted base
- Outdoor Corrosion Protection:
  - Coated coil
  - Painted base

Field Installed

Combination Coil/Hail Guards
- Heavy gauge steel frame painted to match cabinet with expanded metal mesh to protect the outdoor coil from damage

BLOWER

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

Blower Motor Choice
- Overload protected, equipped with ball bearings
- Variable-speed ECM direct drive motors are offered on 036, 048 and 060 models
- Belt drive motors with two-speed capability (low static/high static) are available on 036, 048, 060 and 074 models in several different sizes to maximize air performance
- Single speed belt drive motors are available in different sizes to meet static requirements on 072 models

7 Supply Air Blower
- Forward curved blades, blower wheel is statically and dynamically balanced
- All belt drive motors have adjustable pulley for speed change

Ordering Information
- Specify motor horsepower and drive kit number when base unit is ordered

Required Selections

- 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

ELECTRICAL

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
(3 Phase models only)
- 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

NOTE - Phase/voltage detection is furnished when the MSAV (Multi-Stage Air Volume) option is ordered.

Short-Circuit Current Rating (SCCR)
- Higher short circuit protection up to 100kA

NOTE - Disconnect Switch is not available as an option with High SCCR option.

ELECTRICAL (continued)

Options/Accessories (continued)

Factory Installed (continued)

SCR (Silicon Controlled Rectifier) Electric Heat Control
- Modulates small, precise increments of power to the electric heat load eliminating temperature fluctuations associated with mechanical controls
- Almost instantaneous operation with no moving parts
- Zero-Cross (fast cycling) feature improves electric heater life with less contraction and expansion of the heating elements
- The SCR operates when there is no call for heat from the building control system or thermostat
- SCR air tempering is controlled by a secondary thermostat and remote duct sensor (ordered separately)
- A call for heat overrides the SCR and modulates the SCR to 100% heat output. A call for cooling overrides the SCR

NOTE - The SCR option is not available with 45 kW and 60 kW electric heat (208/230V) models.

NOTE - Blower Proving Switch is required and must be ordered separately for factory installation. See Controls in the Options/Accessories table.

NOTE - Available for use with conventional thermostat controls or Novar® control systems only.

Factory or Field Installed

Disconnect Switch
- Accessible from outside of unit
- Spring loaded weatherproof cover furnished

8 Electric Heat
- Helix wound nichrome elements
- Individual element limit controls
- Wiring harness
- Unit fuse block
- See Options / Accessories tables for ordering information

GFI Service Outlets (2)
- 115V ground fault circuit interrupter (GFCI) type
- Non-powered
- Field-wired

Field Installed

GFI Weatherproof Cover
- Single-gang cover
- Heavy-duty UV-resistant polycarbonate case construction
- Hinged base cover with gasket

INDOOR AIR QUALITY

9 Air Filters
- Disposable 2 inch filters furnished as standard

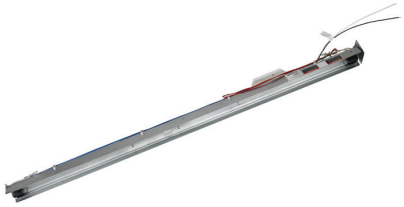
Options/Accessories

Factory or Field Installed

Healthy Climate® High Efficiency Air Filters
- Disposable MERV 8 or MERV 13 (Minimum Efficiency Reporting Value based on ASHRAE 52.2) efficiency 2-inch pleated filters

Field Installed

Healthy Climate® UVC Germicidal Lamps



- 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)
- Field installed in the blower/evaporator coil section
- Magnetic safety interlock terminates power when access panels are removed
- All necessary hardware for installation is included
- Lamps operate on 110/230V, 1 phase power supply

NOTE - Step-down transformer may be ordered separately for 460V and 575V units.
- Approved by ETL

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

Indoor Air Quality (CO_2) Sensors
- Monitors CO_2 levels
- Reports to the Prodigy 2.0 Unit Controller, which adjusts economizer dampers as needed

CONTROL SYSTEM

PRODIGY CONTROL SYSTEM

10 The Prodigy 2.0 unit controller is a microprocessor-based controller that provides flexible control of all unit functions.

Features:

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

Built-In Functions Include:

- Adjustable Blower On/Off Delay
- Built-in Control Parameter Defaults
- Compressor Time-Off Delay
- DDC Compatible
- Dirty Filter Switch Input
- Discharge Air Temperature Control
- Display/Sensor Readout
- Economizer Control Options (See Economizer / Exhaust Air / Outdoor Air sections)
- Fresh Air Tempering
- Over 100 diagnostic and status messages in English
- Exhaust Fan Control Modes for fresh air damper position
- Permanent Diagnostic Code Storage
- Field Adjustable Control Parameters (Over 200 settings)
- Indoor Air Quality Input (Demand Control Ventilation)
- Low Ambient Controls for 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 has four choices (unit off, positive pressure, negative pressure, purge)
- Up to 2 heat/2 cool (standard unit controller thermostat input)
- Up to 3 cool with additional relay
- Up to 4 cool with room sensor or network operation
- “Strike Three” Protection
- Gas Reheat Control allows simultaneous heating and cooling operation for humidity control of process air applications such as supermarkets
- On Demand Dehumidification monitors and controls condenser hot gas reheat operation with Humiditrol® dehumidification option
- Thermostat Bounce Delay
- Warm Up Mode Delay
- LED Indicators
- PC Interface connects the Prodigy 2.0 unit controller to a PC with the Lennox Unit Controller Software
- Room Sensor Operation controls temperature

Options/Accessories

Factory or Field Installed

Blower Proving Switch

- Monitors blower operation
- Shuts down unit if blower stops

Dirty Filter Switch

- Senses static pressure increase

Controls Options

Factory Installed

SmartAirflow® System (Available for 3, 4, and 5 Ton High Efficiency Models Equipped With a Direct Drive Blower and Economizer)

- Complete airflow management system that precisely controls the economizer damper for accurate ventilation
- Allows the installer to directly enter the design-specified supply air (blower) and outdoor air volume (economizer minimum position) parameters without the need to manually take measurements and adjust settings
- Monitors supply air volume and outside air volume as well as customizable diagnostics

CONTROL SYSTEM

PRODIGY CONTROL SYSTEM (continued)

Controls Options (continued)

Factory or Field Installed

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

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

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

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

After-Market DDC
- Novar® Unit Controller and options

Thermostats
- Control system and thermostat options
- After-Market unit controller options

Field Installed

General Purpose Control Kit
- Plug-in control provides additional analog and digital inputs/outputs for field installed options

Humidity Sensor Kit
- Humidity sensor required with factory installed Humiditrol® Dehumidification Option or Supermarket reheat field selectable option

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

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

OPTIONS / ACCESSORIES

ECONOMIZER

11
- Economizer operation is set and controlled by the Prodigy 2.0 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

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

Factory or Field Installed

High Performance Economizer
- Approved for California Title 24 building standards
- Low leakage dampers are Air Movement and Control Association International (AMCA) Class 1A Certified - Maximum 3 CFM per sq. ft. leakage at 1 in. w.g.
- ASHRAE 90.1 compliant
- Combination Outdoor Air Hood is furnished
- Factory installed Economizer can be ordered with three exhaust options:
  - Barometric Relief Dampers
  - Power Exhaust Fan

NOTE - See Power Exhaust Fan section for additional requirements.

  - No Exhaust
- Field installed Economizer includes Barometric Relief Dampers with Combination Hood
- Barometric Relief Dampers allow relief of excess air
- Dampers prevent blow back and outdoor air infiltration during off cycle
- Bird screen furnished

NOTE - Barometric Relief Dampers are required when Economizer is factory installed with factory installed Power Exhaust Fan option. See Power Exhaust Fan section and Options/Accessories table.

- Demand Control Ventilation (DCV) ready using optional CO_2 sensors
- Horizontal Barometric Dampers are required for horizontal Economizer applications and must be ordered separately
- Gear-driven action
- High torque 24-volt
- Fully-modulating spring return damper motor
- Return air and outdoor air dampers
- Plug-in connections to unit
- Nylon bearings
- Enhanced thermoplastic vulcanizate (TPV) seals
- Flexible stainless steel jamb seals to minimize air leakage

ECONOMIZER (continued)

Factory or Field Installed (continued)

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.

NOTE - Refer to Installation Instructions for complete setup information.

Differential Sensible Control
- Factory setting
- Uses outdoor air and return air sensors that are furnished with the unit
- The Prodigy 2.0 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.

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

NOTE - 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.

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
  - One in the outdoor air section
- Allows the economizer control to select between outdoor air or return air, whichever has lower enthalpy

Field Installed

Building Pressure Control
- Maintains constant building pressure level
- Using differential pressure information between the outdoor air and the building air, the Prodigy 2.0 unit controller changes the economizer position to help maintain a constant building pressure

NOTE - Not available with Demand Control Ventilation (CO_2 Sensor).

Horizontal Barometric Relief Dampers
- For use when unit is configured for horizontal applications with an economizer
- Allows relief of excess air
- Blade type dampers prevent blow back and outdoor air infiltration during off cycle
- Field installed in return air duct
- Exhaust hood with bird screen furnished
- Requires Horizontal Economizer Conversion Kit

Horizontal Economizer Conversion Kit
- Insulated panel covers the bottom return air opening on the unit base to convert downflow economizer to horizontal air flow

OPTIONS / ACCESSORIES

EXHAUST

Factory or Field Installed

Power Exhaust Fan
- Installs internal to unit for downflow applications with economizer option
- Provides exhaust air pressure relief
- Interlocked to run when supply air blower is operating
- Fan runs when outdoor air dampers are 50% open (adjustable)
- Motor is overload protected
- Fan is 16 in. diameter
- Four fan blades
- 1/3 hp motor

NOTE - If Power Exhaust is field installed with a factory installed Economizer, the Economizer must be ordered with No Exhaust option. Barometric Relief Dampers must also be ordered separately for field installation.

NOTE - If Power Exhaust is factory installed with a factory installed Economizer, Barometric Relief Dampers must also be ordered separately for field installation.

OUTDOOR AIR

Factory or Field Installed

Outdoor Air Damper
- Downflow or Horizontal
- 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

ROOF CURBS

Field Installed
- Nailer strip furnished (downflow only)
- Mates to unit
- US National Roofing Contractors Approved
- Shipped knocked down

Hybrid Roof Curbs, Downflow
- Interlocking tabs fasten corners together
- No tools required
- Can also be fastened together with furnished hardware
- Available in 8, 14, 18, and 24 inch heights

Adjustable Pitch Curb
- Fully adjustable pitch curbs (3/4 in. per foot in any direction) provide a level platform for rooftop units allowing flexible installations on roofs with uneven or sloped angles
- Uses interlocking tabs to fasten corners together; no tools required
- Hardware is furnished to connect upper curb with lower curb
- Available in 14 inch height

Adaptor Curbs (not shown)
- Curbs are regionally sourced
- Dimensions vary based upon the source

NOTE - Contact your local sales representative for a detailed cut sheet with applicable dimensions.

CEILING DIFFUSERS

Field Installed

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

Transitions (Supply and Return)
- Used with diffusers
- Installs in roof curb
- Galvanized steel construction
- Flanges furnished for duct connection to diffusers
- Fully insulated

HUMIDITROL® DEHUMIDIFICATION SYSTEM OPTION

OVERVIEW

- Factory installed option designed to control humidity
- Provides dehumidification on demand using ASHRAE 90.1 recommended method for comfort conditioning humidity control
- Unit comes equipped with one row reheat coil, solenoid valve and humidity controller
- A thermostat with a dehumidification output, a dehumidistat, or a DDC controller with an isolated output is required to control humidity and must be located in the occupied space

BENEFITS

- Improves indoor air quality
- Helps prevents damage due to high humidity levels
- Improves comfort levels by reducing space humidity levels

OPERATION

No Dehumidification Demand

- The unit will operate conventionally whenever there is a demand for cooling or heating and no dehumidification demand
- Free cooling is only permitted when there is no demand for dehumidification

Dehumidification Demand Only

- The Unit Controller is factory set at 60% relative humidity setpoint and can be adjusted at the Unit Controller or with optional Unit Controller Software
- For L Connection® Network Control Panel (NCP) applications, the humidity setpoint can be adjusted at the NCP
- Reheat operation will initiate on a dehumidification demand and does not require a cooling demand
- The unit will operate in the dehumidification mode until the relative humidity of the conditioned space is below the setpoint
- The reheat coil is sized to provide 68°F to 75°F supply air during reheat operation
- This reduces sensible cooling capacity and extends compressor run time to control humidity when the cooling load is low
- A solenoid valve diverts hot gas from the compressor to the reheat coil
- The cooled and dehumidified air from the evaporator is reheated as it passes through the reheat coil
- The de-superheated and partially condensed refrigerant continues to the outdoor condenser coil where condensing is completed
- Unit will continue to operate in this mode until the dehumidification demand is satisfied

NOTE - See Sequence of Operation for additional information.

Dehumidification and Cooling Demand (Thermostat/Room Sensor Application)

Two-stage compressor models (036, 048, 060, 074)

- If both a dehumidification and a 1st stage cooling demand occur, the system will operate in the full cooling mode at first stage indoor air flow. If a 2nd stage cooling demand occurs along with a dehumidification demand, the system operates in full cooling mode at full cooling airflow until the 2nd stage cooling demand is satisfied
- Then the system will revert to the dehumidification mode if a dehumidification mode demand is present

Single speed compressor model (072H)

- If both a dehumidification and a cooling demand occur, the system will operate in cooling until the cooling demand is satisfied; then the system will energize the dehumidification mode

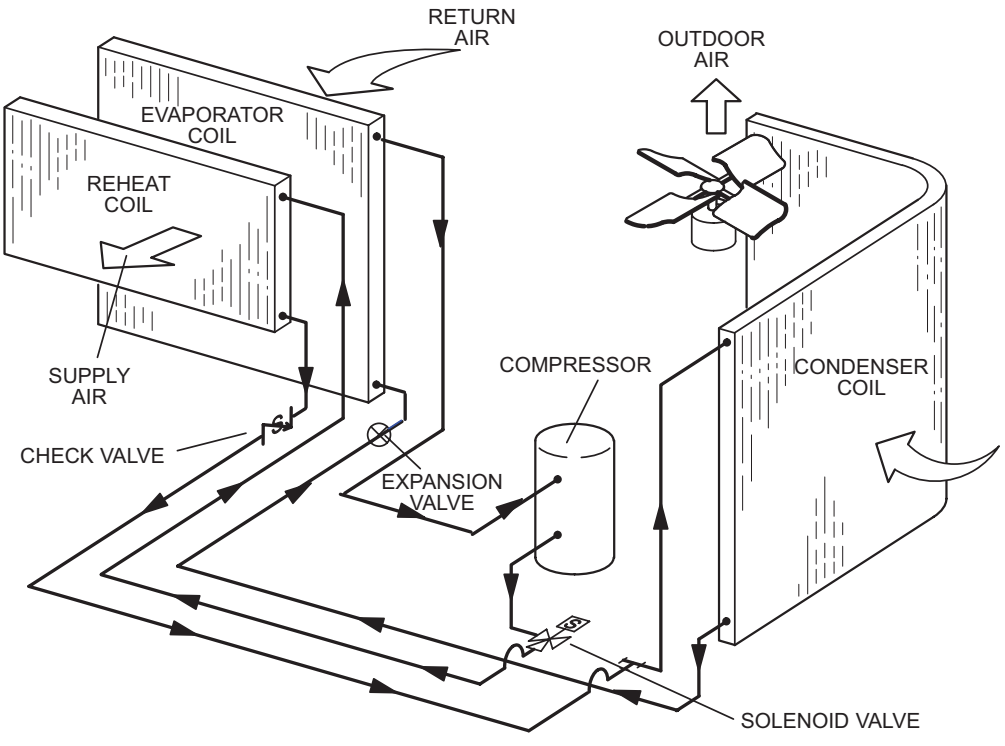
Options/Accessories

Humidity Sensor Kit

- Remote mounted dehumidistat for factory installed Humiditrol® option or Supermarket reheat field selectable option

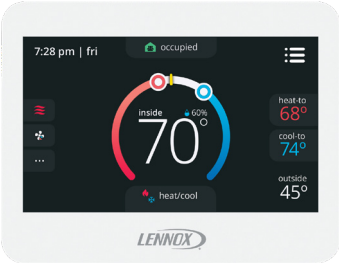
NOTE - A thermostat with a dehumidification output or a DDC controller with an isolated output can be used instead.

TYPICAL DEHUMIDIFICATION SCHEMATIC



OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

ComfortSense® 8500 Commercial 7-Day Programmable Thermostat

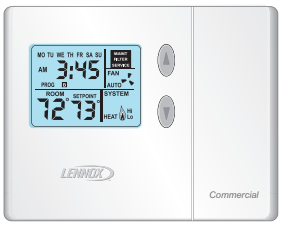


- Fully Communicating Sensor
- Full Color Touchscreen Interface
- Variable Speed System Control (On Compatible Units)
- Up To 4 Heat / 4 Cool
- Built-In Sensors For Temperature, Humidity And Optional CO_2
- Remote Sensor Options For Occupancy, Temperature
- BACnet Capable Options
- 5-2 or 7-Day Scheduling
- Smooth Setback Recovery
- Heat/Cool Auto-Changeover
- Four-Wire Installation
- FDD, ASHRAE, IECC Compliant

ComfortSense® 7500 Commercial 7-Day Programmable Thermostat

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

ComfortSense® 3000 Commercial 5-2 Day Programmable Thermostat



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

Wired Room Sensor (LCS-5030)

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

OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

Description		Catalog No.
ComfortSense® 8500 Commercial 7 Day Programmable Thermostat		
CS8500 7-Day Thermostat	No CO_2 Sensing	**17G75**
	With CO_2 Sensing	**17G76**
Sensors/Accessories	[1] Remote non-adjustable wall-mount 10k	**47W37**
	[1] Remote non-adjustable wall-mount 11k	**94L61**
Sysbus Network Cable (Yellow) for ComfortSense 8500 and LCS-5030 Wired Room Sensor		
Twisted pair 100% shielded communication cable, Red and Black 22 AWG, yellow jacket, rated at 75°C, 300V, Plenum rated Insulation - Low smoke PVC, NEC, CMP	500 ft. box	**27M19**
	1000 ft. box	**94L63**
	2500 ft. roll	**68M25**
ComfortSense® 7500 Commercial 7-Day Programmable Thermostat		
CS7500 7-Day Thermostat		**17G74**
Sensors/Accessories	[2] Remote non-adjustable wall-mount 20k	**47W36**
	[2] Remote non-adjustable wall-mount 10k	**47W37**
	Remote non-adjustable discharge air (duct mount)	**19L22**
	Outdoor temperature sensor	**X2658**
ComfortSense® 3000 Commercial 5-2 Day Programmable Thermostat		
CS3000 5-2 Day Thermostat		**11Y05**
Sensors/Accessories	Remote non-adjustable wall mount 10k averaging	**47W37**
	Thermostat wall mounting plate	**X2659**
ComfortSense® Non-Programmable Thermostat		
CS3000 Non-Programmable Thermostat		**51M32**
Universal Thermostat Guard with Lock (clear)		
	Inside Dimensions (H x W) 5 7/8 x 8 3/8 in.	**39P21**
Wired Room Sensor		
LCS-5030 Wired Room Sensor		**21L07**

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

[2] Remote wall-mount sensors can be applied in any of the following combinations:
One Sensor - (1) 47W36, Two Sensors - (2) 47W37, Three Sensors - (2) 47W36 and (1) 47W37
Four Sensors - (4) 47W36, Five Sensors - (3) 47W36 and (2) 47W37

Objective: Outline the unit functions as a result of room thermostat or zone sensor demands.

Given: When economizer is present, it will function as initial part of the unit cooling system. When not present, unit will function as if outdoor ambient is high and sensed as not suitable.

DIRECT DRIVE AND BELT DRIVE SYSTEM OPERATION (3 THROUGH 5 TONS AND 6 TON 074 MODELS):

NOTE - Direct drive units feature ECM condenser fans that are staged to match the compressor's capacity. When the compressor is operating at first stage, the condenser fan is operating at low speed. The condenser fan switches to high speed when the compressor switches to second stage to match operation.

Modulating Outdoor Air Damper:

Damper minimum positions #1 and 2 are adjusted during unit setup to provide minimum fresh air requirements at the indicated supply fan speeds per ASHRAE 62.1.

- Supply fan is off and the outdoor air damper is closed
- Supply fan is on low speed and the outdoor air damper is at minimum position 1
- Supply fan is on high speed and the outdoor air damper is at minimum position 2

[1] Unit Features an Economizer and Outdoor Air is Suitable

Cooling - Thermostat or Zone Sensor Mode (Up to 3 stages Y1, Y2, Y3)

Y1 Demand:

Compressor is off, supply fan is on low speed, economizer modulates (minimum to maximum open position) to maintain 55°F supply air temperature (default unit controller setting)

After 5 minutes (default unit controller setting), supply fan switches to high speed. Economizer continues modulating with supply fan on high speed to maintain 55°F supply air temperature

Y2 Demand:

Compressor is off, supply fan is on high speed, and economizer modulates to maintain 55°F supply air temperature

Economizer opens to maximum. If economizer stays at maximum open for 3 minutes (default unit controller setting) compressor is energized and operates at first stage while supply fan stays on high speed

[1] Outdoor air suitability is determined by the energy state of outdoor ambient (enthalpy or sensible) and its ability to achieve the desired free cooling effects. Outdoor air suitability can also be determined by a third party controller and provided to the RTU via a network connection.

Y3 Demand:

Economizer is at maximum open and compressor operates at first stage. If economizer stays at maximum open for 3 minutes (default unit controller setting) compressor switches to second stage operation while supply fan stays on high speed

Unit Does Not Feature an Economizer (or Outdoor Air Is Not Suitable)

Cooling - Thermostat or Zone Sensor (Up to 2 stages Y1, Y2)

Y1 Demand:

Compressor operates at first stage and supply fan operates at low speed

Y2 Demand:

Compressor operates at second stage and supply fan operates at high speed

(Continued on Next Page)

DIRECT DRIVE AND BELT DRIVE SYSTEM OPERATION (3 THROUGH 5 TONS AND 6 TON 074 MODELS) (CONTINUED)

Dehumidification Mode (economizer free cooling is locked out):

Unit Features the Humiditrol® Dehumidification option.

No Y1, Y2 Demand but a call for dehumidification:

Compressor operates at second stage, supply fan operates at low speed, and the reheat valve is energized

Y1 Demand:

Compressor operates at second stage, outdoor fan operates at high speed, supply fan operates at low speed and the reheat valve is de-energized

Y2 Demand:

Compressor operates at second stage, supply fan operates at high speed, and the reheat valve is de-energized

Heating Mode: Thermostat or Zone Sensor (1 stage W1)

W1 Demand:

Electric Heat is energized and the supply fan operates at high speed

SINGLE STAGE UNIT OPERATION (6 TON 072 MODELS)

Modulating Outdoor Air Damper:

Damper minimum positions are adjusted during unit setup to provide minimum fresh air requirements at the indicated supply fan speeds per ASHRAE 62.1.

- Supply fan is off and the outdoor air damper is closed
- Supply fan is on and the outdoor air damper is at minimum position

[1] **Unit Features an Economizer and Outdoor Air is Suitable**

Cooling - Thermostat or Zone Sensor (Up to 2 stages Y1, Y2)

Y1 Demand:

Compressor is off, supply fan is on, economizer modulates (minimum to maximum open position) to maintain 55°F supply air temperature (default unit controller setting)

Y2 Demand:

Economizer goes to maximum open position and if the damper stays open for three minutes (default unit controller setting) the compressor is energized

Unit Does Not Feature an Economizer (or outdoor air is not suitable)

Cooling - Thermostat or Zone Sensor (Up to 1 stage Y1)

Y1 Demand:

Compressor is operating and supply fan is on

Dehumidification Mode (economizer free cooling is locked out):

Unit Features the Humiditrol® Dehumidification System

No Y1 Demand but a call for dehumidification:

Compressor is operating, supply fan is on, and the reheat valve is energized

Y1 Demand:

Compressor is operating, supply fan is on, and the reheat valve is de-energized

Y2 Demand:

Compressor is operating, supply fan is on, and the reheat valve is de-energized

Heating Mode: Thermostat or Zone Sensor (1 stage W1)

W1 Demand:

Electric Heat is energized and the supply fan operates at high speed

OPTIONS / ACCESSORIES

Item		Catalog Number	Unit Model Number 036	048	060	072	074
COOLING SYSTEM							
Condensate Drain Trap	PVC	**22H54**	OX	OX	OX	OX	OX
	Copper	**76W27**	OX	OX	OX	OX	OX
Conventional Fin/Tube Condenser Coil (replaces Environ™ Coil System)		Factory	O	O	O	O	O
Drain Pan Overflow Switch		**21Z07**	OX	OX	OX	OX	OX
Efficiency	Standard	Factory	O	O	O		
	High	Factory	O	O	O	O	O
Service Valves (not for Environ™ Coil System or Humiditrol® Dehumidification Option)		Factory	O	O	O	O	O
BLOWER - SUPPLY AIR							
Motors	Direct Drive - 0.50 hp	Factory	O				
	Direct Drive - 0.75 hp	Factory		O			
	Direct Drive - 1 hp	Factory			O		
	Belt Drive - .75 hp (2 Speed)	Factory	O	O			
	Belt Drive - 1 hp (2 Speed)	Factory	O		O		O
	Belt Drive - 2 hp (2 Speed)	Factory		O	O		O
	Belt Drive - 1 hp Standard Efficiency	Factory				O	
	Belt Drive - 2 hp Standard Efficiency	Factory				O	
Drive Kits See Blower Data Tables for selection	Kit A0 - 673-1010 rpm	Factory	O				
	Kit A02 - 745-1117 rpm	Factory		O			
	Kit A03 - 833-1250 rpm	Factory			O		
	Kit A05 - 897-1346 rpm	Factory	O				
	Kit A06 - 1071-1429 rpm	Factory		O			
	Kit A07 - 1212-1548 rpm	Factory			O		
	Kit AA01 - 522-784 rpm	Factory				O	O
	Kit AA02 - 632-875 rpm	Factory				O	O
	Kit AA03 - 798-1105 rpm	Factory				O	O
	Blower Belt Auto-Tensioner	Factory	O	O	O	O	O
CABINET							
Combination Coil/Hail Guards		**13R98**	X	X			
		13T03			X	X	X
Corrosion Protection (indoor coil / outdoor coil)		Factory	O	O	O	O	O
CONTROLS							
Blower Proving Switch		**21Z10**	OX	OX	OX	OX	OX
Commercial Controls	CPC Einstein Integration	Factory	O	O	O	O	O
	Prodigy® Control System - BACnet® Module	**59W51**	OX	OX	OX	OX	OX
	Prodigy® Control System - LonTalk® Module	**54W27**	OX	OX	OX	OX	OX
	Novar® LSE	Factory	O	O	O	O	O
	L Connection® Building Automation System	- - -	X	X	X	X	X
Dirty Filter Switch		**53W66**	OX	OX	OX	OX	OX
General Purpose Control Kit		**13J78**	X	X	X	X	X
Fresh Air Tempering		**21Z08**	OX	OX	OX	OX	OX
[1] SmartAirflow™ (Supply and Ventilation Airflow Control)		**Factory**	O	O	O		
Smoke Detector - Supply or Return (Power board and one sensor)		**21Z11**	OX	OX	OX	OX	OX
Smoke Detector - Supply and Return (Power board and two sensors)		**21Z12**	OX	OX	OX	OX	OX

[1] Available for 3, 4 and 5 ton high efficiency models equipped with direct drive blower and Economizer.

NOTE - Catalog numbers shown are for ordering field installed accessories.
OX = Configure To Order (Factory Installed) or Field Installed.
O = Configure To Order (Factory Installed).
X = Field Installed.

OPTIONS / ACCESSORIES

Item		Catalog Number	Unit Model Number 036	048	060	072	074
ELECTRICAL							
Voltage	208/230V - 1 phase	Factory	[1] O	[1] O	[1] O		
60 hz	208/230V - 3 phase	Factory	O	O	O	O	O
	460V - 3 phase	Factory	O	O	O	O	O
	575V - 3 phase	Factory	O	O	O	O	O
HACR Circuit Breakers		Factory	O	O	O	O	O
Disconnect Switch (See Electrical / Electric Heat Tables for selection)	80 amp	**20W21**	OX	OX			
	150 amp	**20W22**		OX			
	80 amp	**22A23**			OX	OX	OX
	150 amp	**22A24**			OX	OX	OX
[2] Short-Circuit Current Rating (SCCR) of 100kA (includes Phase/Voltage Detection)		Factory	O	O	O	O	O
GFI Service Outlets	15 amp non-powered, field-wired (208/230V, 460V only)	**74M70**	OX	OX	OX	OX	OX
	20 amp non-powered, field-wired (575V only)	**67E01**	OX	OX	OX	OX	OX
Weatherproof Cover for GFI		**10C89**	X	X	X	X	X
Phase/Voltage Detection - 3 Phase Models Only		Factory	O	O	O	O	O
ELECTRIC HEAT							
7.5 kW	208/230V-1ph	**46W28**	OX	OX	OX		
	208/230V-3ph	**21Z26**	OX	OX	OX	OX	OX
	460V-3ph	**21Z27**	OX	OX	OX	OX	OX
	575V-3ph	**46W39**	OX	OX	OX	OX	OX
15 kW	208/230V-1ph	**46W29**	OX	OX	OX		
	208/230V-3ph	**21Z28**	OX	OX	OX	OX	OX
	460V-3ph	**21Z29**	OX	OX	OX	OX	OX
	575V-3ph	**46W40**	OX	OX	OX	OX	OX
22.5 kW	208/230V-1ph	**46W30**			OX		
	208/230V-3ph	**21Z30**			OX	OX	OX
	460V-3ph	**21Z31**			OX	OX	OX
	575V-3ph	**46W41**			OX	OX	OX
30 kW	208/230V-3ph	**46W34**				OX	OX
	460V-3ph	**46W38**				OX	OX
	575V-3ph	**46W42**				OX	OX
SCR (Silicon Controlled Rectifier) Electric Heat Control		Factory	O	O	O	O	O
Thermostat (required)		**Y9682**	X	X	X	X	X
Duct Sensor (required)		**Y9683**	X	X	X	X	X

[1] 208/230-1ph not available on belt drive units.
[2] Disconnect Switch not available with higher SCCR option.

NOTE - Catalog numbers shown are for ordering field installed accessories.
OX = Configure To Order (Factory Installed) or Field Installed.
O = Configure To Order (Factory Installed).
X = Field Installed.

OPTIONS / ACCESSORIES

Item		Catalog Number	Unit Model Number 036	048	060	072	074
ECONOMIZER							
High Performance Economizer With Outdoor Air Hood (Sensible Control) (Approved for California Title 24 Building Standards / AMCA Class 1A Certified)							
High Performance Economizer - Includes Barometric Relief Dampers and Combination Hood		**20H48**	OX	OX	OX	OX	OX
Economizer Accessories							
Horizontal Economizer Conversion Kit		**17W45**	X	X	X	X	X
Economizer Controls							
Differential Enthalpy (Not for Title 24)	Order 2	**21Z09**	OX	OX	OX	OX	OX
Sensible Control	Sensor is Furnished	Factory	O	O	O	O	O
Single Enthalpy (Not for Title 24)		**21Z09**	OX	OX	OX	OX	OX
Global Control	Sensor Field Provided	Factory	O	O	O	O	O
Building Pressure Control		**13J77**	X	X	X	X	X
POWER EXHAUST FAN (DOWNFLOW ONLY)							
Standard Static	208/230V-1 or 3ph	**21Z13**	OX	OX	OX	OX	OX
NOTE - Factory or Field installed Power Exhaust Fan requires "Barometric Relief Dampers for Power Exhaust Kit" for field installation. See below.	460V-3ph	**21Z14**	OX	OX	OX	OX	OX
	575V-3ph	**21Z15**	OX	OX	OX	OX	OX
BAROMETRIC RELIEF							
[1] Barometric Relief Dampers for Power Exhaust Kit		**21Z21**	X	X	X	X	X
[2] Horizontal Barometric Relief Dampers With Exhaust Hood		**19F01**	X	X	X	X	X
OUTDOOR AIR							
Outdoor Air Dampers With Outdoor Air Hood							
Motorized		**15D17**	OX	OX	OX	OX	OX
Manual		**15D18**	OX	OX	OX	OX	OX
HUMIDITROL® CONDENSER REHEAT OPTION							
Humiditrol Dehumidification Option		Factory	O	O	O	O	O
Humidity Sensor Kit, Remote mounted (required)		**17M50**	X	X	X	X	X

[1] Required when Economizer is factory installed with factory installed Power Exhaust Fan option.
[2] Required when Economizer is configured for horizontal airflow.

NOTE - Catalog numbers shown are for ordering field installed accessories.
OX = Configure To Order (Factory Installed) or Field Installed.
O = Configure To Order (Factory Installed).
X = Field Installed.

OPTIONS / ACCESSORIES

Item		Catalog Number	Unit Model Number 036	048	060	072	074
INDOOR AIR QUALITY							
Air Filters							
Healthy Climate® High Efficiency Air Filters Order 4 per unit	MERV 8 (16 x 20 x 2 in.)	**54W20**	OX	OX			
	MERV 13 (16 x 20 x 2 in.)	**52W37**	OX	OX			
	MERV 8 (20 x 20 x 2 in.)	**54W21**			OX	OX	OX
	MERV 13 (20 x 20 x 2 in.)	**52W39**			OX	OX	OX
Replaceable Media Filter With Metal Mesh Frame (includes non-pleated filter media)	16 x 20 x 2 in. (Order 4)	**39W09**	X	X			
	20 x 20 x 2 in. (Order 4)	**44N60**			X	X	X
Indoor Air Quality (CO_2) Sensors							
Sensor - Wall-mount, off-white plastic cover with LCD display		**77N39**	X	X	X	X	X
Sensor - Wall-mount, off-white plastic cover, no display		**87N53**	X	X	X	X	X
Sensor - Black plastic case with LCD display, rated for plenum mounting		**87N52**	X	X	X	X	X
Sensor - Wall-mount, black plastic case, no display, rated for plenum mounting		**87N54**	X	X	X	X	X
CO_2 Sensor Duct Mounting Kit - for downflow applications		**85L43**	X	X	X	X	X
Aspiration Box - for duct mounting non-plenum rated CO_2 sensors (**87N53** or **77N39**)		**90N43**	X	X	X	X	X
UVC GERMICIDAL LAMPS							
[1] Healthy Climate® UVC Light Kit (110/230V-1ph)		**21A92**	X	X	X	X	X
Step-Down Transformers	460V primary, 230V secondary	**10H20**	X	X	X	X	X
	575V primary, 230V secondary	**10H21**	X	X	X	X	X
ROOF CURBS							
Hybrid Roof Curbs, Downflow							
8 in. height		**11F50**	X	X	X	X	X
14 in. height		**11F51**	X	X	X	X	X
18 in. height		**11F52**	X	X	X	X	X
24 in. height		**11F53**	X	X	X	X	X
Transition Curb							
Matches Energence® 036-074 Units to existing L Series® Curbs		**20W06**	X	X	X	X	X
CEILING DIFFUSERS							
Step-Down - Order one	RTD9-65S	**13K60**	X	X	X		
	RTD11-95S	**13K61**				X	X
Flush - Order one	FD9-65S	**13K55**	X	X	X		
	FD11-95S	**13K56**				X	X
Transitions (Supply and Return) - Order one	T1TRAN10AN1	**17W53**	X	X	X		
	T1TRAN20N-1	**17W54**				X	X

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

NOTE - Catalog numbers shown are for ordering field installed accessories.
OX = Configure To Order (Factory Installed) or Field Installed.
O = Configure To Order (Factory Installed).
X = Field Installed.

SPECIFICATIONS — DIRECT DRIVE

General Data	Nominal Tonnage	**3 Ton**	**4 Ton**	**5 Ton**
	Model Number	**LCH036H4E**	**LCH048H4E**	**LCH060H4E**
	Efficiency Type	**High**	**High**	**High**
	Blower Type	Multi-Speed Direct Drive	Multi-Speed Direct Drive	Multi-Speed Direct Drive
Cooling Performance	Gross Cooling Capacity - Btuh	36,600	50,100	61,600
	[1] Net Cooling Capacity - Btuh	36,000	49,000	60,000
	AHRI Rated Air Flow - cfm	1200	1600	1750
	Total Unit Power - kW	2.8	3.8	4.7
	[1] SEER (Btuh/Watt) - 208/230V-1-3ph	18.0	17.6	17.1
	[1] SEER (Btuh/Watt) - 460V-3ph, 575V-3ph	17.0	17.0	17.0
	[1] EER (Btuh/Watt) - 208/230V-1-3ph	12.8	12.8	12.7
	[1] EER (Btuh/Watt) - 460V-3ph, 575V-3ph	12.5	12.8	12.7
Refrigerant Charge	Refrigerant Type	R-410A	R-410A	R-410A
	Environ™ Coil System	4 lbs. 5 oz.	6 lbs. 4 oz.	8 lbs. 0 oz.
	Conventional Fin/Tube Coil	8 lbs. 8 oz.	11 lbs. 2 oz.	14 lbs. 0 oz.
	Environ™ Coil System With Humiditrol® Dehumidification Option	5 lbs. 2 oz.	6 lbs. 8 oz.	8 lbs. 0 oz.
	Conventional Fin/Tube With Humiditrol® Dehumidification Option	9 lbs. 3 oz.	12 lbs. 4 oz.	16 lbs. 0 oz.
Electric Heat Available - See Page 18		7.5 and 15 kW	7.5 and 15 kW	7.5, 15 and 22.5 kW
Compressor Type (one per unit)		Two-Stage Scroll	Two-Stage Scroll	Two-Stage Scroll
Outdoor Coil Environ™ (Fin/Tube)	Net face area (total) - sq. ft.	11.70 (15.60)	14.50 (15.60)	17.80 (19.30)
	Tube diameter - in.	0.71 (3/8)	0.71 (3/8)	0.71 (3/8)
	Number of rows	1 (1.5)	1 (2)	1 (2)
	Fins per inch	20 (20)	20 (20)	20 (20)
Outdoor Coil Fans	Motor - (No.) horsepower	(1) 1/3 (ECM)	(1) 1/3 (ECM)	(1) 1/3 (ECM)
	Motor rpm	715-810	645-810	930-1100
	Total Motor Input - watts	112-160	89-165	230-350
	Diameter - (No.) in.	(1) 24	(1) 24	(1) 24
	Number of blades	3	3	3
	Total air volume - cfm	3400-3795	2910-3675	4315-4980
Indoor Coil	Net face area (total) - sq. ft.	7.78	7.78	9.72
	Tube diameter - in.	3/8	3/8	3/8
	Number of rows	3	4	4
	Fins per inch	14	14	14
	Drain connection (Number) and size - in.	(1) 1 NPT	(1) 1 NPT	(1) 1 NPT
	Expansion device type	Balanced Port Thermostatic Expansion Valve, removable power head		
[3] **Indoor Blower**	Nominal motor HP	0.50 (ECM)	0.75 (ECM)	1 (ECM)
	Blower wheel nominal diameter x width - in.	(1) 10 X 10	(1) 10 X 10	(1) 11 X 10
Filters	Type of filter	disposable		
	Number and size - in.	(4) 16 X 20 X 2		(4) 20 x 20 x 2
Electrical characteristics		208/230V - 60 hz - 1 phase 208/230V, 460V, or 575V - 60 hz -3 phase		

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

[1] AHRI Certified to AHRI Standard 210/240: 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

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

SPECIFICATIONS — BELT DRIVE

General Data	Nominal Tonnage	**3 Ton**	**4 Ton**	**5 Ton**	**6 Ton**	**6 Ton**
	Model Number	**LCH036S4T**	**LCH048S4T**	**LCH060S4T**	**LCH072H4B**	**LCH074H4T**
	Efficiency Type	**Standard**	**Standard**	**Standard**	**High**	**High**
	Blower Type	Two Speed Belt Drive	Two Speed Belt Drive	Two Speed Belt Drive	Single Speed Belt Drive	Two Speed Belt Drive
Cooling Performance	Gross Cooling Capacity - Btuh	35,800	49,100	61,600	73,500	72,000
	Net Cooling Capacity - Btuh	[1] 34,800	[1] 48,000	[1] 60,000	[2] 72,000	[2] 69,000
	AHRI Rated Air Flow - cfm	1200	1600	1750	1920	2100
	Total Unit Power - kW	3.0	3.9	4.8	6.0	5.7
	SEER (Btuh/Watt)	[1] 15.0	[1] 15.0	[1] 15.5	- - -	- - -
	EER (Btuh/Watt)	[1] 11.6	[1] 11.6	[1] 12.3	[2] 12.0	[2] 12.0
	IEER (Btuh/Watt)	- - -	- - -	- - -	[2] 13.5	[2] 16.0
Refrigerant Charge	Refrigerant Type	R-410A	R-410A	R-410A	R-410A	R-410A
	Environ™ Coil System	4 lbs. 5 oz.	6 lbs. 4 oz.	8 lbs. 0 oz.	7 lbs. 8 oz.	7 lbs. 2 oz.
	Conventional Fin/Tube Coil	8 lbs. 8 oz.	11 lbs. 2 oz.	14 lbs. 0 oz.	13 lbs. 12 oz.	13 lbs. 11oz
	Environ™ Coil System With Humiditrol®	5 lbs. 2 oz.	6 lbs. 8 oz.	8 lbs. 0 oz.	9 lbs. 0 oz.	8 lbs. 15 oz.
	Conventional Fin/Tube With Humiditrol®	9 lbs. 3 oz.	12 lbs. 4 oz.	16 lbs. 0 oz.	15 lbs. 3 oz.	15 lbs. 11oz
Electric Heat Available - See Page 18		7.5 and 15 kW	7.5 and 15 kW	7.5, 15 and 22.5 kW	7.5, 15, 22.5 and 30 kW	7.5, 15, 22.5 and 30 kW
Compressor Type (one per unit)		Two-Stage Scroll	Two-Stage Scroll	Two-Stage Scroll	Scroll	Two-Stage Scroll
Outdoor Coil Environ™ (Fin/Tube)	Net face area (total) - sq. ft.	11.70 (15.60)	14.5 (15.60)	17.80 (19.30)	17.80 (19.30)	17.80 (19.30)
	Tube diameter - in.	0.71 (3/8)	0.71 (3/8)	0.71 (3/8)	0.71 (3/8)	0.71 (3/8)
	Number of rows	1 (1.5)	1 (2)	1 (2)	1 (2)	1 (2)
	Fins per inch	20 (20)	20 (20)	20 (20)	20 (20)	20 (20)
Outdoor Coil Fans	Motor - (No.) horsepower	(1) 1/6 (PSC)	(1) 1/4 (PSC)	(1) 1/3 (PSC)	(1) 1/3 (PSC)	(1) 1/3 (PSC)
	Motor rpm	825	825	1075	1075	1075
	Total Motor Input - watts	168	230	410	410	375
	Diameter - (No.) in.	(1) 24	(1) 24	(1) 24	(1) 24	(1) 24
	Number of blades	3	3	3	3	3
	Total air volume - cfm	3000	3300	4800	4800	4800
Indoor Coil	Net face area (total) - sq. ft.	7.78	7.78	9.72	9.72	9.72
	Tube diameter - in.	3/8	3/8	3/8	3/8	3/8
	Number of rows	3	4	4	4	4
	Fins per inch	14	14	14	14	14
	Drain connection (Number) and size - in.	(1) 1 NPT	(1) 1 NPT	(1) 1 NPT	(1) 1 NPT	(1) 1 NPT
	Expansion device type	Balanced Port Thermostatic Expansion Valve, removable power head				
[5] **Indoor Blower and Drive Selection**	No. of Speeds	2	2	2	1	2
	Nominal motor HP — Low static	0.75	0.75	1	1	1
	Nominal motor HP — High static	1	2	2	2	2
	Maximum usable motor output (US Only) — Low static	0.86	0.86	1.15	1.15	1.15
	Maximum usable motor output (US Only) — High static	1.15	2.3	2.3	2.3	2.3
	Motor - Drive kit number	A01 low 449-673 high 673-1010 A05 low 598-897 high 897-1346	A02 low 497-673 high 745-1117 A06 low 714-953 high 1071-1429	A03 low 555-833 high 833-1250 A07 low 808-1032 high 1212-1548	AA01 522 - 784 rpm AA02 632 - 875 rpm AA03 798 - 1105 rpm	AA01 522-784 rpm AA02 632-875 rpm AA03 798-1105 rpm
	Blower wheel nominal diameter x width - in.	(1) 10 X 10	(1) 10 X 10	(1) 10 X 10	(1) 15 X 9	(1) 15 X 9
Filters	Type of filter	disposable				
	Number and size - in.	(4) 16 X 20 X 2		(4) 20 X 20 X 2		
Electrical characteristics		208/230V, 460V, or 575V - 60 hz - 3 phase				

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

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

[3] 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.

COOLING RATINGS

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

3 TON STANDARD EFFICIENCY LCH036S4 (1ST STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	640	26.1	1.02	0.68	0.81	0.95	25.2	1.18	0.68	0.82	0.97	24.1	1.36	0.7	0.84	0.99	23	1.57	0.71	0.87	1
	800	27.6	1.01	0.72	0.88	1	26.6	1.17	0.73	0.91	1	25.4	1.35	0.75	0.93	1	24.2	1.56	0.77	0.96	1
	960	28.8	1	0.77	0.96	1	27.7	1.16	0.78	0.98	1	26.5	1.34	0.81	1	1	25.3	1.54	0.83	1	1
67°F	640	27.7	1.01	0.54	0.65	0.76	26.7	1.17	0.54	0.66	0.78	25.6	1.35	0.55	0.67	0.8	24.3	1.55	0.56	0.69	0.82
	800	29.2	1	0.56	0.7	0.84	28.1	1.16	0.57	0.71	0.86	26.9	1.34	0.58	0.72	0.89	25.6	1.54	0.59	0.74	0.92
	960	30.3	0.99	0.59	0.74	0.92	29.2	1.15	0.6	0.76	0.94	27.8	1.33	0.61	0.78	0.97	26.4	1.53	0.62	0.81	1
71°F	640	29.2	1	0.42	0.52	0.63	28.1	1.16	0.42	0.53	0.64	27	1.34	0.42	0.53	0.65	25.7	1.54	0.42	0.55	0.66
	800	30.8	0.98	0.43	0.55	0.67	29.7	1.14	0.43	0.55	0.68	28.4	1.32	0.43	0.57	0.7	27	1.53	0.44	0.58	0.72
	960	32.1	0.97	0.44	0.58	0.72	30.8	1.13	0.44	0.59	0.73	29.4	1.31	0.44	0.6	0.75	28	1.51	0.45	0.61	0.78

3 TON STANDARD EFFICIENCY LCH036S4 (2ND STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	960	34.1	2.21	0.71	0.85	0.99	32.4	2.48	0.73	0.87	1	30.8	2.79	0.74	0.9	1	28.9	3.15	0.76	0.94	1
	1200	35.7	2.23	0.77	0.94	1	34.1	2.5	0.78	0.96	1	32.3	2.82	0.81	0.99	1	30.4	3.18	0.83	1	1
	1440	37	2.25	0.82	1	1	35.5	2.52	0.84	1	1	33.8	2.84	0.87	1	1	31.9	3.2	0.91	1	1
67°F	960	35.9	2.24	0.56	0.69	0.82	34.3	2.51	0.57	0.7	0.84	32.5	2.82	0.58	0.72	0.87	30.5	3.18	0.59	0.74	0.9
	1200	37.6	2.26	0.6	0.74	0.9	35.8	2.53	0.61	0.76	0.93	33.9	2.84	0.62	0.78	0.96	31.7	3.2	0.63	0.81	1
	1440	38.7	2.27	0.63	0.8	0.98	36.9	2.54	0.63	0.82	1	34.9	2.86	0.66	0.85	1	32.7	3.22	0.67	0.89	1
71°F	960	37.8	2.26	0.43	0.55	0.66	36	2.53	0.43	0.56	0.68	34.1	2.84	0.44	0.57	0.7	32.1	3.21	0.44	0.58	0.72
	1200	39.5	2.29	0.44	0.58	0.72	37.7	2.56	0.45	0.59	0.74	35.6	2.87	0.45	0.61	0.76	33.5	3.23	0.46	0.63	0.79
	1440	40.9	2.3	0.46	0.62	0.77	38.8	2.57	0.46	0.63	0.8	36.7	2.89	0.47	0.65	0.83	34.3	3.24	0.48	0.67	0.86

3 TON HIGH EFFICIENCY LCH036H4 (1ST STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	640	25.5	1.06	0.69	0.81	0.95	24.6	1.22	0.69	0.83	0.97	23.7	1.41	0.7	0.85	0.99	22.5	1.63	0.72	0.87	1
	800	27	1.05	0.73	0.88	1	26	1.21	0.74	0.91	1	24.9	1.4	0.76	0.93	1	23.7	1.61	0.78	0.96	1
	960	28.2	1.03	0.78	0.96	1	27.1	1.2	0.79	0.98	1	26	1.39	0.81	1	1	24.8	1.6	0.84	1	1
67°F	640	27.1	1.05	0.55	0.66	0.77	26.1	1.21	0.55	0.67	0.79	25.1	1.4	0.55	0.68	0.81	23.9	1.61	0.57	0.7	0.83
	800	28.6	1.03	0.57	0.71	0.85	27.6	1.2	0.58	0.72	0.87	26.4	1.38	0.59	0.73	0.89	25.1	1.6	0.6	0.75	0.92
	960	29.7	1.02	0.6	0.75	0.92	28.6	1.19	0.61	0.77	0.94	27.3	1.37	0.61	0.78	0.97	25.9	1.59	0.64	0.81	1
71°F	640	28.6	1.03	0.42	0.53	0.64	27.6	1.2	0.42	0.54	0.65	26.4	1.38	0.43	0.54	0.65	25.2	1.6	0.43	0.55	0.67
	800	30.2	1.01	0.43	0.56	0.68	29.1	1.18	0.43	0.56	0.69	27.8	1.37	0.44	0.58	0.71	26.5	1.58	0.44	0.59	0.73
	960	31.4	1	0.45	0.59	0.73	30.3	1.17	0.44	0.6	0.74	28.9	1.35	0.45	0.61	0.76	27.4	1.57	0.45	0.62	0.79

3 TON HIGH EFFICIENCY LCH036H4 (2ND STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	960	34	2.15	0.71	0.85	0.99	32.4	2.41	0.72	0.87	1	30.8	2.72	0.74	0.9	1	29	3.08	0.76	0.93	1
	1200	35.7	2.17	0.77	0.93	1	34.1	2.44	0.78	0.96	1	32.3	2.74	0.81	0.99	1	30.4	3.1	0.83	1	1
	1440	37	2.19	0.82	1	1	35.4	2.45	0.84	1	1	33.8	2.76	0.87	1	1	32	3.12	0.9	1	1
67°F	960	35.9	2.17	0.57	0.69	0.82	34.3	2.44	0.57	0.7	0.84	32.5	2.74	0.58	0.72	0.86	30.6	3.1	0.6	0.74	0.9
	1200	37.6	2.19	0.6	0.74	0.9	35.8	2.46	0.61	0.76	0.92	34	2.76	0.62	0.78	0.96	31.8	3.11	0.63	0.81	0.99
	1440	38.8	2.21	0.63	0.8	0.97	36.9	2.47	0.64	0.82	1	34.9	2.77	0.66	0.84	1	32.7	3.13	0.67	0.88	1
71°F	960	37.7	2.19	0.43	0.55	0.67	36	2.46	0.43	0.56	0.68	34.2	2.76	0.44	0.57	0.7	32.2	3.12	0.44	0.58	0.72
	1200	39.6	2.22	0.44	0.58	0.72	37.7	2.48	0.44	0.59	0.74	35.7	2.79	0.46	0.61	0.76	33.6	3.14	0.46	0.62	0.79
	1440	40.9	2.23	0.46	0.62	0.78	38.9	2.49	0.46	0.63	0.8	36.8	2.8	0.47	0.65	0.82	34.5	3.15	0.48	0.67	0.85

COOLING RATINGS

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

4 TON STANDARD EFFICIENCY LCH048S4 (1ST STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	850	37.2	1.49	0.65	0.78	0.92	36.1	1.72	0.66	0.8	0.95	34.6	1.98	0.68	0.82	0.97	32.9	2.27	0.69	0.84	1
	1065	39.4	1.47	0.7	0.86	1	38	1.7	0.71	0.88	1	36.4	1.96	0.72	0.91	1	34.6	2.26	0.74	0.93	1
	1280	41	1.46	0.74	0.94	1	39.5	1.69	0.76	0.97	1	37.8	1.95	0.78	0.99	1	36.2	2.24	0.81	1	1
67°F	850	39.7	1.47	0.52	0.63	0.74	38.2	1.7	0.53	0.64	0.75	36.7	1.96	0.54	0.64	0.77	35	2.25	0.55	0.67	0.8
	1065	41.9	1.45	0.55	0.67	0.82	40.3	1.68	0.55	0.69	0.84	38.7	1.94	0.56	0.7	0.87	36.7	2.24	0.57	0.71	0.89
	1280	43.5	1.44	0.57	0.72	0.9	41.9	1.67	0.57	0.74	0.92	39.9	1.93	0.58	0.75	0.95	38	2.23	0.6	0.78	0.99
71°F	850	42.1	1.45	0.4	0.5	0.61	40.6	1.68	0.41	0.51	0.61	38.9	1.94	0.41	0.51	0.62	37.1	2.23	0.42	0.53	0.64
	1065	44.4	1.43	0.41	0.54	0.65	42.7	1.66	0.42	0.55	0.66	40.9	1.92	0.42	0.55	0.66	38.8	2.22	0.42	0.56	0.69
	1280	46	1.42	0.43	0.56	0.7	44.1	1.65	0.42	0.56	0.71	42.1	1.91	0.44	0.58	0.73	40	2.2	0.42	0.59	0.76

4 TON STANDARD EFFICIENCY LCH048S4 (2ND STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	1280	47.8	2.83	0.7	0.85	1	45.4	3.15	0.72	0.87	1	43	3.51	0.73	0.91	1	40.3	3.93	0.75	0.94	1
	1600	50	2.86	0.76	0.94	1	47.5	3.17	0.78	0.97	1	44.9	3.54	0.8	1	1	42.5	3.97	0.83	1	1
	1920	51.8	2.88	0.82	1	1	49.7	3.2	0.85	1	1	47.2	3.57	0.87	1	1	44.4	4	0.91	1	1
67°F	1280	50.6	2.87	0.55	0.68	0.81	48.2	3.18	0.57	0.7	0.83	45.5	3.55	0.57	0.71	0.87	42.7	3.97	0.59	0.73	0.9
	1600	52.9	2.9	0.59	0.73	0.9	50.1	3.21	0.6	0.75	0.93	47.3	3.57	0.6	0.77	0.97	44.2	4	0.62	0.81	1
	1920	54.5	2.91	0.6	0.79	0.99	51.6	3.23	0.63	0.82	1	48.7	3.59	0.65	0.85	1	45.4	4.02	0.67	0.89	1
71°F	1280	53.4	2.9	0.42	0.53	0.65	50.9	3.22	0.42	0.56	0.67	48	3.58	0.43	0.56	0.69	45.1	4.01	0.44	0.58	0.71
	1600	55.8	2.93	0.43	0.58	0.71	52.8	3.24	0.44	0.58	0.73	49.9	3.61	0.44	0.6	0.75	46.7	4.04	0.45	0.62	0.79
	1920	57.3	2.95	0.44	0.6	0.77	54.3	3.26	0.46	0.62	0.8	51.3	3.63	0.45	0.64	0.83	47.8	4.05	0.47	0.66	0.87

4 TON HIGH EFFICIENCY LCH048H4 (1ST STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	850	37.1	1.54	0.67	0.79	0.93	35.9	1.78	0.67	0.81	0.95	34.4	2.05	0.69	0.83	0.97	32.7	2.35	0.7	0.85	1
	1065	39.2	1.53	0.71	0.87	1	37.8	1.77	0.72	0.89	1	36.2	2.03	0.74	0.91	1	34.4	2.34	0.75	0.94	1
	1280	40.9	1.52	0.76	0.94	1	39.4	1.76	0.77	0.97	1	37.6	2.02	0.79	0.99	1	36	2.32	0.82	1	1
67°F	850	39.5	1.53	0.53	0.64	0.75	38.1	1.76	0.54	0.65	0.77	36.6	2.03	0.55	0.66	0.79	34.8	2.34	0.56	0.68	0.81
	1065	41.7	1.51	0.56	0.69	0.83	40.1	1.75	0.57	0.7	0.85	38.4	2.02	0.57	0.72	0.88	36.5	2.32	0.58	0.73	0.9
	1280	43.2	1.5	0.58	0.73	0.9	41.7	1.74	0.58	0.75	0.93	39.7	2	0.59	0.77	0.96	37.7	2.31	0.62	0.79	0.99
71°F	850	41.9	1.51	0.41	0.51	0.62	40.4	1.75	0.41	0.52	0.62	38.7	2.01	0.42	0.53	0.63	36.9	2.32	0.43	0.54	0.65
	1065	44.2	1.49	0.42	0.55	0.67	42.5	1.73	0.42	0.56	0.68	40.6	1.99	0.43	0.56	0.69	38.5	2.3	0.43	0.57	0.7
	1280	45.8	1.48	0.43	0.57	0.71	43.9	1.71	0.42	0.58	0.72	41.9	1.98	0.45	0.58	0.74	39.8	2.28	0.43	0.6	0.77

4 TON HIGH EFFICIENCY LCH048H4 (2ND STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	1280	47.6	2.92	0.7	0.84	0.99	45.2	3.24	0.71	0.87	1	43	3.62	0.73	0.9	1	40.3	4.06	0.75	0.94	1
	1600	49.9	2.95	0.76	0.94	1	47.4	3.27	0.77	0.96	1	44.9	3.64	0.8	0.99	1	42.3	4.09	0.83	1	1
	1920	51.6	2.97	0.82	1	1	49.6	3.29	0.84	1	1	47.1	3.68	0.87	1	1	44.4	4.12	0.9	1	1
67°F	1280	50.4	2.95	0.55	0.67	0.81	48	3.28	0.57	0.7	0.83	45.5	3.66	0.57	0.71	0.86	42.7	4.1	0.59	0.73	0.9
	1600	52.7	2.98	0.59	0.73	0.9	50.1	3.3	0.6	0.75	0.92	47.3	3.68	0.6	0.77	0.96	44.3	4.12	0.62	0.8	1
	1920	54.3	3	0.62	0.79	0.98	51.6	3.32	0.62	0.81	1	48.7	3.7	0.65	0.85	1	45.5	4.14	0.67	0.88	1
71°F	1280	53.2	2.98	0.43	0.54	0.65	50.7	3.31	0.42	0.55	0.66	48	3.69	0.43	0.56	0.69	45.1	4.14	0.44	0.58	0.71
	1600	55.6	3.01	0.44	0.58	0.71	52.8	3.33	0.44	0.59	0.73	49.9	3.71	0.44	0.6	0.75	46.8	4.16	0.45	0.62	0.78
	1920	57.2	3.03	0.44	0.6	0.77	54.2	3.35	0.46	0.62	0.8	51.2	3.73	0.46	0.64	0.82	47.9	4.17	0.47	0.66	0.86

COOLING RATINGS

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

5 TON STANDARD EFFICIENCY LCH060S4 (1ST STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	1070	48	1.76	0.66	0.78	0.92	46.1	2.08	0.66	0.8	0.94	44.1	2.42	0.68	0.81	0.96	42.1	2.79	0.69	0.84	0.99
	1335	50.8	1.75	0.7	0.85	1	48.8	2.07	0.71	0.88	1	46.7	2.41	0.73	0.9	1	44.4	2.78	0.74	0.93	1
	1600	53	1.74	0.75	0.93	1	50.8	2.06	0.76	0.95	1	48.6	2.4	0.78	0.97	1	46.1	2.77	0.8	1	1
67°F	1070	51.2	1.75	0.53	0.64	0.74	49	2.06	0.53	0.64	0.76	46.9	2.41	0.53	0.65	0.78	45.1	2.78	0.54	0.67	0.79
	1335	54.1	1.73	0.55	0.67	0.81	52	2.06	0.56	0.69	0.83	49.7	2.4	0.57	0.7	0.86	47.4	2.78	0.58	0.72	0.88
	1600	56.4	1.72	0.58	0.72	0.89	54	2.05	0.58	0.73	0.91	51.6	2.39	0.57	0.75	0.93	49	2.77	0.6	0.78	0.97
71°F	1070	54.4	1.73	0.41	0.51	0.61	52.3	2.05	0.41	0.51	0.62	50	2.4	0.4	0.51	0.62	47.7	2.77	0.41	0.52	0.64
	1335	57.5	1.72	0.41	0.54	0.65	55.2	2.05	0.42	0.55	0.67	52.7	2.39	0.42	0.55	0.68	50.2	2.77	0.43	0.56	0.69
	1600	59.8	1.71	0.43	0.56	0.69	57.4	2.04	0.43	0.57	0.71	54.6	2.39	0.42	0.57	0.72	51.9	2.76	0.44	0.59	0.75

5 TON STANDARD EFFICIENCY LCH060S4 (2ND STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	1600	59.5	3.42	0.69	0.84	0.98	56.9	3.84	0.71	0.86	1	54.1	4.33	0.73	0.89	1	51	4.89	0.75	0.92	1
	2000	62.6	3.46	0.75	0.93	1	59.7	3.87	0.77	0.95	1	56.6	4.36	0.78	0.98	1	53.3	4.92	0.82	1	1
	2400	64.9	3.48	0.8	0.99	1	62.1	3.9	0.83	1	1	59.5	4.39	0.85	1	1	56.4	4.97	0.89	1	1
67°F	1600	62.9	3.46	0.55	0.67	0.8	60.3	3.88	0.56	0.69	0.82	57.4	4.37	0.57	0.7	0.85	54	4.93	0.58	0.72	0.88
	2000	66.3	3.5	0.59	0.73	0.88	63.3	3.92	0.6	0.74	0.91	60	4.4	0.6	0.76	0.94	56.6	4.97	0.62	0.79	0.98
	2400	68.4	3.52	0.61	0.77	0.96	65.3	3.94	0.63	0.8	0.99	61.8	4.42	0.64	0.82	1	58.1	4.98	0.65	0.86	1
71°F	1600	66.9	3.5	0.42	0.53	0.65	63.9	3.92	0.43	0.54	0.66	60.8	4.41	0.43	0.56	0.68	57.4	4.98	0.43	0.57	0.7
	2000	70	3.54	0.44	0.57	0.7	66.8	3.96	0.44	0.58	0.72	63.4	4.44	0.44	0.59	0.73	59.7	5.01	0.45	0.6	0.76
	2400	72.2	3.57	0.44	0.6	0.75	69	3.99	0.44	0.61	0.78	65.2	4.47	0.47	0.63	0.8	61.5	5.03	0.46	0.64	0.83

5 TON HIGH EFFICIENCY LCH060H4 (1ST STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	1070	47.4	1.82	0.66	0.79	0.92	45.5	2.14	0.67	0.8	0.94	43.5	2.49	0.68	0.82	0.97	41.5	2.87	0.7	0.85	0.99
	1335	50.1	1.81	0.71	0.85	1	48.2	2.13	0.72	0.88	1	46	2.48	0.73	0.91	1	43.7	2.86	0.75	0.93	1
	1600	52.3	1.8	0.75	0.93	1	50	2.13	0.77	0.95	1	47.9	2.48	0.79	0.98	1	45.5	2.86	0.8	1	1
67°F	1070	50.4	1.81	0.53	0.64	0.75	48.5	2.13	0.53	0.65	0.76	46.2	2.48	0.53	0.65	0.78	44.2	2.86	0.55	0.67	0.8
	1335	53.3	1.8	0.55	0.68	0.82	51.2	2.13	0.57	0.69	0.84	49	2.48	0.57	0.71	0.86	46.7	2.86	0.58	0.72	0.89
	1600	55.6	1.79	0.58	0.72	0.89	53.2	2.12	0.59	0.73	0.91	50.8	2.48	0.57	0.76	0.94	48.2	2.86	0.61	0.78	0.97
71°F	1070	53.6	1.8	0.41	0.51	0.62	51.5	2.12	0.41	0.52	0.62	49.3	2.47	0.41	0.52	0.63	47	2.86	0.42	0.53	0.65
	1335	56.7	1.79	0.42	0.54	0.66	54.4	2.12	0.43	0.55	0.67	51.9	2.47	0.43	0.56	0.68	49.5	2.86	0.43	0.57	0.7
	1600	58.9	1.78	0.43	0.57	0.7	56.5	2.12	0.44	0.58	0.71	53.9	2.47	0.44	0.58	0.72	51.2	2.86	0.45	0.6	0.75

5 TON HIGH EFFICIENCY LCH060H4 (2ND STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	1600	59.5	3.5	0.69	0.84	0.99	56.9	3.93	0.71	0.86	1	54	4.42	0.73	0.89	1	50.9	4.99	0.75	0.93	1
	2000	62.6	3.54	0.75	0.93	1	59.7	3.96	0.77	0.95	1	56.5	4.45	0.79	0.98	1	53.3	5.02	0.82	1	1
	2400	64.9	3.56	0.8	1	1	62.2	3.99	0.83	1	1	59.4	4.49	0.85	1	1	56.3	5.07	0.9	1	1
67°F	1600	63	3.54	0.54	0.67	0.8	60.2	3.97	0.56	0.68	0.82	57.3	4.46	0.57	0.7	0.85	53.9	5.03	0.58	0.72	0.88
	2000	66.4	3.58	0.59	0.73	0.89	63.2	4.01	0.59	0.74	0.92	59.7	4.5	0.6	0.76	0.94	56.4	5.07	0.62	0.79	0.98
	2400	68.4	3.61	0.61	0.78	0.97	65.2	4.03	0.63	0.8	0.99	61.6	4.52	0.64	0.83	1	58	5.09	0.65	0.87	1
71°F	1600	66.8	3.59	0.42	0.53	0.64	63.9	4.01	0.42	0.54	0.66	60.8	4.51	0.43	0.56	0.68	57.3	5.08	0.44	0.57	0.7
	2000	70.1	3.63	0.43	0.57	0.7	66.8	4.05	0.44	0.58	0.72	63.2	4.54	0.44	0.58	0.74	59.6	5.12	0.44	0.6	0.76
	2400	72.3	3.65	0.45	0.6	0.76	68.8	4.08	0.45	0.61	0.77	65.2	4.57	0.46	0.63	0.8	61.4	5.14	0.46	0.65	0.84

COOLING RATINGS

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

6 TON HIGH EFFICIENCY LCH072H4

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	1920	72.3	4.53	0.71	0.85	0.99	69.1	5.05	0.73	0.87	1	65.7	5.63	0.74	0.9	1	61.8	6.28	0.76	0.93	1
	2400	76.2	4.55	0.76	0.93	1	72.8	5.06	0.78	0.96	1	69	5.63	0.8	0.98	1	64.9	6.28	0.82	1	1
	2880	79	4.56	0.82	1	1	75.6	5.06	0.84	1	1	72.5	5.64	0.86	1	1	68.8	6.31	0.9	1	1
67°F	1920	76.7	4.55	0.56	0.68	0.81	73.3	5.05	0.57	0.69	0.83	69.9	5.64	0.58	0.72	0.86	66	6.29	0.59	0.73	0.89
	2400	80.8	4.56	0.59	0.74	0.89	77.2	5.07	0.6	0.75	0.92	73.2	5.65	0.62	0.77	0.95	68.9	6.3	0.63	0.8	0.98
	2880	83.6	4.57	0.63	0.79	0.97	79.7	5.07	0.63	0.81	0.99	75.8	5.65	0.65	0.84	1	71	6.3	0.66	0.87	1
71°F	1920	81.6	4.56	0.43	0.55	0.66	78.1	5.07	0.43	0.55	0.67	74.4	5.65	0.43	0.56	0.69	70.1	6.3	0.44	0.58	0.71
	2400	85.7	4.58	0.44	0.58	0.71	81.8	5.08	0.45	0.59	0.73	77.7	5.66	0.45	0.6	0.75	73.1	6.31	0.46	0.62	0.77
	2880	88.4	4.59	0.46	0.61	0.77	84.4	5.09	0.46	0.62	0.79	80	5.67	0.46	0.63	0.8	75.5	6.32	0.47	0.65	0.84

6 TON HIGH EFFICIENCY LCH074H4 (1ST STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	1200	53.3	2.27	0.68	0.81	0.92	51	2.59	0.69	0.82	0.94	48.3	2.95	0.7	0.83	0.96	45.6	3.36	0.71	0.85	0.98
	1600	57.8	2.26	0.74	0.88	1	55.2	2.58	0.75	0.9	1	52.5	2.94	0.77	0.92	1	49.3	3.36	0.78	0.95	1
	2000	61.2	2.25	0.8	0.96	1	58.2	2.57	0.81	0.98	1	55.3	2.94	0.83	1	1	52.5	3.35	0.84	1	1
67°F	1200	57.2	2.26	0.55	0.66	0.77	54.7	2.58	0.55	0.67	0.78	51.9	2.94	0.55	0.67	0.79	48.9	3.36	0.55	0.68	0.81
	1600	61.9	2.25	0.58	0.72	0.85	59.2	2.57	0.59	0.73	0.86	56.3	2.93	0.59	0.74	0.88	53	3.35	0.6	0.76	0.91
	2000	65.4	2.24	0.62	0.78	0.93	62.3	2.56	0.62	0.78	0.94	59.2	2.93	0.63	0.8	0.97	55.6	3.34	0.64	0.82	0.99
71°F	1200	61.2	2.25	0.43	0.53	0.63	58.6	2.57	0.42	0.53	0.64	55.8	2.93	0.42	0.53	0.64	52.6	3.35	0.41	0.53	0.65
	1600	66.3	2.23	0.44	0.57	0.69	63.3	2.56	0.44	0.57	0.7	60.2	2.92	0.44	0.58	0.71	56.7	3.34	0.44	0.59	0.73
	2000	69.6	2.22	0.45	0.61	0.75	66.5	2.54	0.46	0.61	0.76	63.1	2.91	0.45	0.62	0.77	59.6	3.33	0.46	0.63	0.8

6 TON HIGH EFFICIENCY LCH074H4 (2ND STAGE)

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		85°F					95°F					105°F					115°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	1920	68.6	4.12	0.73	0.88	1	64.9	4.65	0.75	0.9	1	60.9	5.25	0.77	0.93	1	56.6	5.94	0.79	0.96	1
	2400	72.2	4.16	0.79	0.96	1	68.1	4.68	0.81	0.99	1	63.9	5.28	0.83	1	1	60	5.97	0.86	1	1
	2880	75.2	4.18	0.85	1	1	71.6	4.72	0.87	1	1	67.6	5.32	0.9	1	1	63.4	6.01	0.94	1	1
67°F	1920	73	4.16	0.57	0.71	0.85	69	4.69	0.59	0.73	0.87	64.8	5.29	0.59	0.74	0.89	60.4	5.97	0.6	0.77	0.93
	2400	76.7	4.2	0.62	0.77	0.93	72.4	4.73	0.62	0.79	0.95	67.9	5.32	0.63	0.81	0.98	63	6	0.64	0.84	1
	2880	79.1	4.22	0.64	0.83	0.99	74.8	4.75	0.66	0.85	1	69.9	5.34	0.67	0.88	1	65	6.02	0.69	0.91	1
71°F	1920	77.6	4.21	0.44	0.56	0.69	73.5	4.74	0.43	0.57	0.7	69.1	5.34	0.43	0.58	0.72	64.2	6.02	0.43	0.59	0.74
	2400	81.1	4.24	0.45	0.6	0.75	76.8	4.77	0.45	0.61	0.77	72	5.37	0.45	0.62	0.79	67.1	6.05	0.44	0.64	0.81
	2880	83.7	4.27	0.47	0.64	0.8	79.3	4.8	0.46	0.65	0.83	74.2	5.4	0.48	0.66	0.85	69.2	6.07	0.48	0.68	0.89

HUMIDITROL® DEHUMIDIFICATION SYSTEM RATINGS

3 TON STANDARD OR HIGH EFFICIENCY LCH036S4/H4 WITH HUMIDITROL® OPERATING

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	640	22.6	1.52	0.49	0.63	0.77	18.9	1.73	0.42	0.59	0.76	15.2	1.94	0.32	0.53	0.75	11.4	2.17	0.14	0.43	0.70
	800	24.3	1.53	0.53	0.70	0.85	20.2	1.73	0.47	0.67	0.84	16.1	1.94	0.37	0.62	0.86	11.8	2.17	0.20	0.54	0.87
	960	25.6	1.54	0.57	0.75	0.94	21.1	1.74	0.51	0.74	0.95	16.5	1.95	0.43	0.72	0.98	11.9	2.17	0.26	0.66	1.00
67°F	640	25.5	1.54	0.36	0.48	0.61	21.8	1.75	0.28	0.43	0.57	18.0	1.96	0.17	0.35	0.52	14.1	2.19	-0.02	0.22	0.44
	800	27.4	1.56	0.38	0.52	0.67	23.3	1.76	0.30	0.47	0.64	19.0	1.97	0.18	0.39	0.60	14.6	2.20	-0.01	0.27	0.54
	960	28.8	1.57	0.40	0.57	0.72	24.3	1.77	0.32	0.51	0.71	19.7	1.98	0.20	0.44	0.68	15.2	2.20	0.01	0.28	0.64
71°F	640	28.2	1.56	0.25	0.37	0.48	24.5	1.77	0.16	0.30	0.43	20.7	1.98	0.05	0.21	0.36	16.8	2.22	-0.13	0.07	0.26
	800	30.4	1.58	0.25	0.39	0.52	26.2	1.78	0.17	0.32	0.47	22.0	1.99	0.05	0.23	0.41	17.4	2.23	-0.14	0.09	0.32
	960	31.9	1.60	0.27	0.41	0.56	27.4	1.79	0.18	0.35	0.52	22.7	2.00	0.04	0.25	0.46	17.9	2.23	-0.17	0.11	0.35

4 TON STANDARD OR HIGH EFFICIENCY LCH048S4/H4 WITH HUMIDITROL® OPERATING

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	890	30.4	2.14	0.46	0.61	0.76	25.5	2.37	0.40	0.57	0.75	20.4	2.61	0.30	0.52	0.74	15.1	2.90	0.14	0.43	0.71
	1115	32.4	2.17	0.51	0.68	0.86	26.8	2.40	0.45	0.65	0.87	21.1	2.65	0.36	0.61	0.89	15.2	2.93	0.19	0.55	0.91
	1340	33.7	2.19	0.55	0.76	0.96	27.6	2.42	0.49	0.74	0.99	21.3	2.67	0.41	0.72	1.00	14.8	2.95	0.24	0.69	0.99
67°F	890	34.5	2.17	0.33	0.46	0.59	29.5	2.40	0.26	0.40	0.55	24.4	2.65	0.15	0.32	0.51	19.0	2.93	-0.02	0.21	0.44
	1115	36.6	2.20	0.35	0.50	0.66	30.9	2.43	0.28	0.45	0.62	25.3	2.68	0.16	0.37	0.59	19.1	2.96	-0.03	0.26	0.54
	1340	38.2	2.23	0.38	0.55	0.72	32.7	2.45	0.29	0.47	0.71	25.5	2.70	0.18	0.43	0.69	18.9	2.98	-0.02	0.32	0.65
71°F	890	38.7	2.20	0.23	0.33	0.45	33.6	2.43	0.15	0.27	0.40	28.4	2.68	0.04	0.19	0.34	23.0	2.96	-0.12	0.06	0.24
	1115	41.1	2.23	0.23	0.36	0.49	35.4	2.46	0.14	0.29	0.45	29.4	2.71	0.03	0.21	0.39	23.3	2.99	-0.16	0.08	0.30
	1340	42.7	2.26	0.24	0.38	0.54	36.9	2.48	0.15	0.31	0.50	29.9	2.73	0.02	0.23	0.42	23.4	3.01	-0.19	0.09	0.36

5 TON STANDARD OR HIGH EFFICIENCY LCH060S4/H4 WITH HUMIDITROL® OPERATING

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	1080	36.2	2.76	0.43	0.59	0.74	29.8	3.07	0.35	0.53	0.73	23.3	3.41	0.21	0.44	0.69	16.4	3.78	-0.03	0.29	0.63
	1350	39.2	2.79	0.48	0.64	0.85	31.6	3.09	0.40	0.62	0.84	24.2	3.42	0.26	0.55	0.84	16.6	3.78	0.02	0.43	0.84
	1620	40.8	2.81	0.52	0.73	0.94	33.5	3.11	0.46	0.66	0.96	24.7	3.43	0.32	0.66	0.98	16.6	3.79	0.07	0.57	1.00
67°F	1080	41.5	2.81	0.30	0.43	0.57	35.3	3.12	0.21	0.36	0.52	28.3	3.46	0.07	0.26	0.45	21.3	3.84	-0.16	0.10	0.34
	1350	44.5	2.84	0.33	0.48	0.63	37.1	3.15	0.23	0.41	0.60	29.7	3.48	0.08	0.31	0.53	22.0	3.85	-0.16	0.14	0.44
	1620	46.8	2.87	0.35	0.52	0.69	38.9	3.17	0.26	0.45	0.67	31.5	3.50	0.05	0.29	0.63	22.1	3.86	-0.16	0.20	0.56
71°F	1080	47.2	2.86	0.20	0.31	0.43	40.5	3.18	0.10	0.23	0.37	33.6	3.52	-0.03	0.13	0.28	26.5	3.90	-0.24	-0.04	0.16
	1350	50.4	2.90	0.20	0.33	0.47	43.0	3.21	0.10	0.26	0.42	35.4	3.55	-0.04	0.15	0.34	27.5	3.92	-0.28	-0.03	0.21
	1620	52.9	2.93	0.21	0.36	0.51	44.6	3.23	0.10	0.28	0.46	36.4	3.56	-0.05	0.16	0.39	28.4	3.93	-0.30	-0.05	0.27

6 TON HIGH EFFICIENCY LCH072H4 WITH HUMIDITROL® OPERATING

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	1920	44.2	3.30	0.56	0.76	0.94	35.7	3.66	0.48	0.74	0.97	28.1	4.06	0.30	0.65	0.99	19.5	4.50	0.11	0.55	1.00
	2400	46.0	3.34	0.62	0.86	1.00	36.9	3.69	0.56	0.85	0.99	27.5	4.07	0.45	0.86	1.00	18.0	4.49	0.23	0.86	1.00
	2880	47.2	3.36	0.69	0.95	1.00	37.3	3.70	0.65	0.99	1.00	27.7	4.07	0.57	1.00	0.99	19.3	4.51	0.38	0.82	1.00
67°F	1920	50.1	3.38	0.36	0.55	0.73	41.7	3.75	0.27	0.49	0.71	33.0	4.14	0.09	0.40	0.68	24.1	4.58	-0.21	0.23	0.61
	2400	52.0	3.42	0.40	0.61	0.82	42.9	3.77	0.30	0.57	0.82	33.4	4.16	0.13	0.49	0.81	23.7	4.58	-0.17	0.34	0.80
	2880	53.5	3.45	0.44	0.68	0.91	43.4	3.79	0.34	0.65	0.93	33.4	4.17	0.18	0.58	0.97	22.9	4.58	-0.15	0.47	1.00
71°F	1920	56.0	3.47	0.21	0.38	0.55	47.6	3.83	0.10	0.30	0.49	38.5	4.23	-0.08	0.18	0.42	30.1	4.68	-0.37	-0.04	0.26
	2400	58.1	3.51	0.22	0.42	0.61	48.7	3.86	0.09	0.34	0.57	39.0	4.25	-0.10	0.22	0.50	29.4	4.68	-0.42	0.00	0.40
	2880	59.8	3.54	0.22	0.45	0.67	49.6	3.89	0.10	0.38	0.64	40.2	4.28	-0.10	0.21	0.60	28.9	4.69	-0.48	0.03	0.52

HUMIDITROL® DEHUMIDIFICATION SYSTEM RATINGS

6 TON HIGH EFFICIENCY LCH074H4 WITH HUMIDITROL® OPERATING

Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
		65°F					75°F					85°F					95°F				
		Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cool Cap.	Comp. Motor Input	Sensible To Total Ratio (S/T) Dry Bulb		
	cfm	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F	kBtuh	kW	75°F	80°F	85°F
63°F	1200	38.4	3.17	0.44	0.59	0.74	31.8	3.50	0.35	0.53	0.71	24.9	3.89	0.21	0.45	0.68	18.0	4.36	-0.04	0.29	0.61
	1600	41.9	3.22	0.49	0.68	0.86	34.4	3.54	0.42	0.63	0.86	26.4	3.91	0.28	0.58	0.86	18.4	4.36	0.03	0.45	0.86
	2000	44.1	3.26	0.55	0.77	0.97	35.5	3.56	0.49	0.76	1.00	28.1	3.94	0.35	0.64	1.00	18.1	4.36	0.10	0.64	1.00
67°F	1200	44.0	3.23	0.30	0.43	0.57	37.3	3.56	0.20	0.36	0.52	30.4	3.96	0.06	0.25	0.45	23.0	4.43	-0.18	0.09	0.33
	1600	47.7	3.29	0.33	0.49	0.65	39.8	3.61	0.23	0.43	0.61	32.0	3.99	0.08	0.32	0.56	23.8	4.44	-0.18	0.15	0.47
	2000	50.3	3.34	0.36	0.55	0.73	41.8	3.64	0.26	0.49	0.70	32.9	4.01	0.07	0.39	0.67	23.9	4.44	-0.18	0.23	0.62
71°F	1200	49.6	3.30	0.19	0.31	0.43	42.8	3.63	0.10	0.23	0.37	35.6	4.04	-0.05	0.12	0.28	28.4	4.51	-0.27	-0.06	0.15
	1600	53.7	3.37	0.19	0.34	0.48	45.9	3.69	0.09	0.26	0.43	37.8	4.07	-0.06	0.15	0.35	29.5	4.53	-0.31	-0.04	0.22
	2000	56.6	3.41	0.20	0.37	0.54	47.7	3.72	0.09	0.30	0.49	38.9	4.10	-0.08	0.17	0.42	29.6	4.53	-0.36	-0.02	0.30

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

FOR ALL UNITS ADD:
1 - Any factory installed options air resistance (heat section, economizer, etc.).
2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See Page 40 for blower motors and drives and wet coil and options/accessory air resistance data.

DOWNFLOW

External Static Press. in. w.g.	Percentage of Total Motor Torque																										
	20%			30%			40%			50%			60%			70%			80%			90%			100%		
	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM
0	785	38	407	969	68	468	1152	98	529	1301	140	581	1449	182	634	1571	236	683	1693	290	732	1799	352	770	1904	414	809
0.1	720	44	475	919	74	522	1117	104	569	1264	150	626	1411	195	684	1539	248	724	1667	301	765	1772	366	805	1877	431	844
0.2	645	50	550	851	83	593	1056	116	637	1218	161	680	1380	205	722	1509	259	762	1638	313	802	1744	380	840	1849	446	879
0.3	570	56	620	793	90	651	1016	124	681	1175	172	730	1334	220	779	1468	274	813	1601	328	846	1708	396	883	1815	464	920
0.4	505	60	678	731	97	712	956	135	746	1130	182	781	1303	229	815	1434	286	852	1564	342	889	1676	410	920	1787	477	951
0.5	432	65	740	663	105	775	895	145	810	1076	194	839	1257	243	867	1396	298	895	1534	353	923	1647	421	952	1759	489	981
0.6	- - -	- - -	- - -	- - -	- - -	- - -	855	152	852	1033	204	884	1211	256	917	1351	312	944	1490	369	971	1604	437	997	1718	505	1024
0.7	- - -	- - -	- - -	- - -	- - -	- - -	792	163	916	986	213	933	1180	264	949	1320	321	975	1460	379	1002	1575	447	1026	1690	515	1050
0.8	- - -	- - -	- - -	- - -	- - -	- - -	734	173	975	934	224	985	1134	275	995	1275	334	1021	1416	393	1046	1533	460	1067	1649	527	1088
0.9	- - -	- - -	- - -	- - -	- - -	- - -	674	183	1034	881	234	1037	1088	286	1039	1230	346	1064	1371	406	1088	1490	471	1106	1608	537	1123
1.0	- - -	- - -	- - -	- - -	- - -	- - -	613	193	1095	820	246	1094	1026	300	1093	1184	357	1104	1342	414	1115	1448	480	1140	1553	547	1165
1.1	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	980	309	1131	1139	367	1142	1297	425	1154	1404	488	1173	1511	551	1192
1.2	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	1253	436	1190	1355	495	1207	1456	554	1225

HORIZONTAL

External Static Press. in. w.g.	Percentage of Total Motor Torque																										
	20%			30%			40%			50%			60%			70%			80%			90%			100%		
	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM
0	796	43	372	975	64	447	1155	85	524	1302	126	560	1448	168	597	1566	214	639	1684	260	680	1786	323	720	1888	386	761
0.1	709	50	461	909	75	512	1110	101	564	1254	143	613	1398	185	662	1523	231	695	1649	277	729	1754	344	769	1858	411	810
0.2	617	57	553	828	88	591	1040	118	629	1204	156	664	1368	194	698	1492	243	734	1616	291	771	1721	358	808	1826	424	845
0.3	503	64	662	747	97	668	992	131	676	1151	172	722	1310	212	768	1442	260	794	1574	308	820	1681	374	853	1787	440	887
0.4	419	69	747	671	107	746	924	146	747	1095	185	782	1266	225	818	1398	275	844	1530	325	870	1640	389	899	1749	454	927
0.5	323	75	843	589	117	832	857	159	821	1039	198	844	1221	237	867	1359	287	888	1496	337	909	1598	403	941	1701	470	973
0.6	- - -	- - -	- - -	- - -	- - -	- - -	817	165	871	990	208	900	1162	252	929	1296	306	954	1431	360	979	1546	421	995	1662	481	1010
0.7	- - -	- - -	- - -	- - -	- - -	- - -	747	176	957	933	219	966	1118	262	974	1264	314	987	1410	367	1000	1523	427	1016	1636	487	1032
0.8	- - -	- - -	- - -	- - -	- - -	- - -	700	181	1026	886	226	1022	1073	271	1018	1216	327	1035	1359	383	1051	1469	442	1066	1579	501	1081
0.9	- - -	- - -	- - -	- - -	- - -	- - -	643	187	1110	829	235	1091	1015	283	1073	1161	341	1087	1307	399	1101	1409	456	1118	1510	513	1136
1.0	- - -	- - -	- - -	- - -	- - -	- - -	592	190	1197	781	241	1154	970	291	1113	1114	352	1130	1258	413	1147	1355	467	1161	1452	520	1176
1.1	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	915	300	1162	1067	362	1171	1219	424	1180	1312	473	1192	1405	522	1204
1.2	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	1168	437	1223	1248	480	1235	1329	523	1246

BLOWER DATA

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

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See Page 40 for blower motors and drives and wet coil and options/accessory air resistance data.

DOWNFLOW

External Static Press. in. w.g.	Percentage of Total Motor Torque																										
	20%			30%			40%			50%			60%			70%			80%			90%			100%		
	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM
0	1046	77	485	1257	134	565	1468	191	646	1639	271	715	1810	351	784	1960	445	837	2109	539	890	2251	674	947	2393	810	1004
0.1	992	85	543	1211	145	619	1430	205	695	1609	285	755	1788	365	814	1937	463	870	2086	561	925	2227	691	977	2367	822	1029
0.2	926	95	612	1166	154	669	1405	214	727	1580	299	793	1755	384	859	1909	482	909	2063	581	959	2200	708	1008	2336	835	1056
0.3	883	101	657	1125	164	715	1367	227	774	1551	311	831	1734	396	888	1891	495	934	2048	593	980	2181	719	1028	2314	844	1076
0.4	818	111	724	1074	175	772	1329	240	820	1515	327	875	1701	414	930	1859	515	975	2017	617	1021	2147	737	1064	2276	857	1107
0.5	752	121	791	1022	187	828	1291	253	865	1485	339	911	1679	425	957	1837	529	1003	1994	632	1049	2120	749	1090	2245	866	1131
0.6	- - -	- - -	- - -	- - -	- - -	- - -	1253	265	908	1450	354	952	1646	442	996	1809	544	1036	1972	646	1076	2094	760	1114	2215	873	1153
0.7	- - -	- - -	- - -	- - -	- - -	- - -	1202	282	965	1408	370	999	1613	458	1034	1777	560	1071	1941	662	1109	2063	771	1141	2185	879	1174
0.8	- - -	- - -	- - -	- - -	- - -	- - -	1164	294	1006	1372	383	1038	1580	473	1070	1745	574	1104	1910	676	1138	2025	781	1171	2139	886	1204
0.9	- - -	- - -	- - -	- - -	- - -	- - -	1126	306	1046	1337	396	1075	1548	487	1105	1714	587	1135	1880	687	1165	1987	788	1198	2094	889	1230
1.0	- - -	- - -	- - -	- - -	- - -	- - -	1081	320	1092	1298	410	1115	1515	500	1138	1675	599	1169	1834	699	1200	1941	794	1227	2048	889	1254
1.1	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	1476	514	1174	1632	609	1201	1788	704	1229	1896	795	1251	2003	886	1274
1.2	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	1728	702	1256	1835	790	1277	1942	878	1298

HORIZONTAL

External Static Press. in. w.g.	Percentage of Total Motor Torque																										
	20%			30%			40%			50%			60%			70%			80%			90%			100%		
	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM
0	1023	78	452	1234	131	536	1445	183	621	1611	251	688	1776	319	754	1910	400	800	2043	480	846	2192	613	904	2340	746	963
0.1	970	82	529	1192	137	596	1414	192	664	1586	261	722	1757	330	780	1902	427	837	2048	523	893	2189	640	942	2330	758	991
0.2	909	86	590	1146	144	647	1383	201	705	1553	275	764	1723	349	824	1876	444	873	2028	540	923	2170	659	970	2312	779	1018
0.3	829	95	675	1084	154	718	1339	213	761	1520	287	807	1701	361	853	1853	459	903	2005	557	953	2138	673	1001	2271	789	1049
0.4	772	104	734	1032	165	774	1293	226	814	1477	304	859	1661	382	904	1818	480	949	1975	579	993	2098	690	1039	2222	802	1084
0.5	688	118	818	967	178	841	1247	238	864	1439	317	902	1631	396	940	1787	498	986	1943	599	1032	2066	704	1069	2189	809	1106
0.6	- - -	- - -	- - -	- - -	- - -	- - -	1202	249	910	1400	330	944	1597	411	978	1758	512	1018	1920	613	1059	2035	715	1095	2150	817	1132
0.7	- - -	- - -	- - -	- - -	- - -	- - -	1146	265	967	1355	345	990	1565	426	1014	1727	527	1053	1889	629	1092	1997	726	1125	2105	822	1158
0.8	- - -	- - -	- - -	- - -	- - -	- - -	1085	280	1021	1302	362	1040	1520	443	1060	1685	544	1095	1849	646	1130	1950	737	1160	2051	828	1191
0.9	- - -	- - -	- - -	- - -	- - -	- - -	1029	292	1064	1255	376	1085	1481	460	1106	1643	560	1137	1805	660	1167	1898	745	1194	1991	830	1222
1.0	- - -	- - -	- - -	- - -	- - -	- - -	961	308	1114	1207	389	1126	1456	471	1137	1601	571	1173	1746	672	1209	1836	751	1230	1926	829	1251
1.1	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	1416	488	1185	1549	581	1213	1682	675	1241	1774	750	1258	1867	824	1276
1.2	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	1570	652	1268	1675	732	1286	1780	812	1305

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

FOR ALL UNITS ADD:
1 - Any factory installed options air resistance (heat section, economizer, etc.).
2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See Page 40 for blower motors and drives and wet coil and options/accessory air resistance data.

DOWNFLOW

External Static Press. in. w.g.	Percentage of Total Motor Torque																									
	20%			30%			40%			50%			60%			70%			80%			90%			100%		
	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM
0	1102	76	420	1324	143	510	1545	211	601	1740	302	667	1934	393	734	2096	519	797	2258	645	860	2396	791	910	2534	938	959
0.1	1038	85	484	1284	153	559	1529	221	633	1722	315	698	1914	410	763	2078	535	823	2242	660	882	2378	810	934	2514	960	986
0.2	975	94	546	1235	165	611	1495	236	677	1692	332	737	1888	429	798	2057	553	851	2225	677	905	2363	825	954	2501	973	1003
0.3	911	104	603	1192	175	654	1473	245	706	1672	343	763	1871	441	820	2040	566	874	2208	692	928	2348	839	974	2488	987	1020
0.4	847	114	657	1143	187	702	1439	259	747	1642	359	800	1845	458	852	2015	585	904	2185	712	956	2327	858	1000	2469	1005	1044
0.5	784	124	708	1095	198	747	1406	273	785	1613	374	835	1819	475	884	1994	600	931	2168	726	977	2309	874	1022	2450	1022	1066
0.6	- - -	- - -	- - -	- - -	- - -	- - -	1372	285	822	1583	388	868	1793	490	915	1969	617	959	2145	743	1004	2288	890	1046	2431	1037	1087
0.7	- - -	- - -	- - -	- - -	- - -	- - -	1339	297	856	1553	401	900	1767	505	944	1945	633	987	2122	760	1029	2267	906	1068	2411	1051	1108
0.8	- - -	- - -	- - -	- - -	- - -	- - -	1294	313	899	1518	416	936	1741	519	973	1920	647	1013	2099	776	1054	2246	920	1090	2392	1064	1127
0.9	- - -	- - -	- - -	- - -	- - -	- - -	1249	327	937	1478	432	974	1706	537	1010	1891	663	1043	2076	790	1077	2221	934	1113	2366	1078	1150
1.0	- - -	- - -	- - -	- - -	- - -	- - -	1193	343	980	1437	446	1008	1680	549	1036	1867	676	1067	2053	803	1098	2200	945	1132	2347	1087	1166
1.1	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	1649	562	1066	1834	691	1097	2019	821	1129	2164	961	1162	2308	1100	1194
1.2	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	1984	836	1157	2133	971	1184	2282	1106	1211

HORIZONTAL

External Static Press. in. w.g.	Percentage of Total Motor Torque																									
	20%			30%			40%			50%			60%			70%			80%			90%			100%		
	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM
0	1129	85	418	1343	146	512	1556	208	606	1740	306	679	1923	405	752	2084	530	812	2245	655	872	2377	807	927	2508	959	982
0.1	1063	88	464	1295	154	550	1527	220	635	1715	318	705	1903	417	776	2070	546	835	2237	675	895	2368	823	948	2498	972	1002
0.2	984	95	534	1234	166	607	1483	237	680	1681	335	743	1878	432	807	2046	562	863	2214	691	920	2347	842	971	2479	993	1023
0.3	917	103	606	1178	179	665	1438	255	724	1645	351	780	1852	447	836	2018	580	894	2183	712	952	2321	862	997	2459	1012	1043
0.4	862	112	681	1128	192	725	1393	272	768	1604	370	823	1814	468	878	1987	598	927	2160	728	975	2298	881	1021	2435	1034	1067
0.5	818	124	760	1091	204	779	1364	283	798	1576	383	851	1788	482	905	1963	612	951	2137	742	997	2274	898	1044	2410	1055	1090
0.6	- - -	- - -	- - -	- - -	- - -	- - -	1319	300	842	1541	398	886	1762	495	931	1934	628	979	2106	761	1026	2244	919	1071	2381	1076	1115
0.7	- - -	- - -	- - -	- - -	- - -	- - -	1274	317	885	1499	415	926	1724	513	967	1900	646	1010	2075	779	1054	2219	934	1093	2362	1089	1131
0.8	- - -	- - -	- - -	- - -	- - -	- - -	1245	328	914	1466	429	957	1686	531	1001	1865	663	1040	2044	796	1080	2188	951	1117	2332	1106	1154
0.9	- - -	- - -	- - -	- - -	- - -	- - -	1200	344	957	1424	446	995	1647	547	1032	1830	679	1069	2013	812	1105	2154	968	1143	2294	1124	1181
1.0	- - -	- - -	- - -	- - -	- - -	- - -	1155	360	1000	1382	461	1030	1609	563	1061	1796	695	1095	1983	826	1129	2124	980	1164	2264	1134	1200
1.1	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	1570	577	1087	1753	712	1124	1936	847	1162	2086	994	1189	2235	1141	1216
1.2	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	1905	859	1182	2041	1003	1213	2176	1146	1244

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

FOR ALL UNITS ADD:
1 - Any factory installed options air resistance (heat section, economizer, etc.).
2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See Page 40 for blower motors and drives and wet coil and options/accessory air resistance data.

Air Volume (cfm)	External Static (in. w.g.)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.9		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
700	447	0.09	517	0.12	589	0.15	663	0.17	739	0.19	815	0.2	883	0.23	938	0.25	988	0.27	1039	0.29
800	465	0.1	534	0.14	605	0.17	678	0.19	753	0.21	825	0.23	890	0.25	946	0.27	996	0.3	1047	0.32
900	486	0.12	554	0.16	623	0.2	695	0.22	767	0.23	836	0.25	897	0.28	953	0.3	1004	0.33	1055	0.35
1000	508	0.15	576	0.19	643	0.22	713	0.24	783	0.26	848	0.28	907	0.3	961	0.33	1011	0.36	1062	0.38
1100	533	0.18	599	0.22	665	0.25	733	0.27	800	0.28	863	0.31	919	0.34	971	0.36	1020	0.39	1070	0.41
1200	560	0.21	625	0.25	689	0.28	755	0.3	820	0.32	879	0.34	932	0.37	983	0.4	1031	0.43	1079	0.45
1300	591	0.24	654	0.28	716	0.31	779	0.33	841	0.35	897	0.38	948	0.41	996	0.44	1044	0.47	1091	0.49
1400	631	0.26	690	0.3	748	0.34	807	0.36	864	0.39	916	0.42	964	0.46	1011	0.49	1058	0.51	1105	0.54

Air Volume (cfm)	External Static (in. w.g.)																			
	1.1		1.2		1.3		1.4		1.5		1.6		1.7		1.8		1.9		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
700	1088	0.31	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
800	1098	0.34	1144	0.36	1185	0.39	1224	0.42	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
900	1106	0.37	1152	0.4	1193	0.43	1232	0.46	1269	0.49	1305	0.52	1340	0.55	1376	0.59	- - -	- - -	- - -	- - -
1000	1111	0.41	1157	0.43	1199	0.47	1238	0.5	1276	0.53	1311	0.56	1347	0.6	1382	0.63	1417	0.67	1452	0.7
1100	1118	0.44	1163	0.47	1206	0.51	1245	0.54	1282	0.58	1318	0.61	1353	0.65	1388	0.68	1423	0.72	1458	0.75
1200	1127	0.48	1171	0.52	1213	0.55	1252	0.59	1289	0.62	1324	0.66	1358	0.7	1393	0.73	1428	0.77	1463	0.81
1300	1137	0.53	1181	0.56	1221	0.6	1259	0.64	1296	0.68	1330	0.71	1364	0.75	1398	0.78	1432	0.82	1467	0.86
1400	1150	0.57	1191	0.61	1231	0.65	1268	0.69	1303	0.73	1337	0.77	1371	0.8	1404	0.84	1437	0.88	1473	0.91

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

FOR ALL UNITS ADD:
1 - Any factory installed options air resistance (heat section, economizer, etc.).
2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See Page 40 for blower motors and drives and wet coil and options/accessory air resistance data.

Air Volume (cfm)	External Static (in. w.g.)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.9		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
700	445	0.08	516	0.11	591	0.13	670	0.15	753	0.16	820	0.19	870	0.22	918	0.24	969	0.27	1021	0.29
800	463	0.09	534	0.12	608	0.14	685	0.16	766	0.18	830	0.21	878	0.24	926	0.27	977	0.29	1030	0.32
900	485	0.11	554	0.14	627	0.16	703	0.18	780	0.21	841	0.23	888	0.27	935	0.3	986	0.32	1039	0.35
1000	509	0.13	578	0.16	649	0.19	722	0.21	796	0.23	854	0.26	900	0.29	947	0.33	997	0.35	1048	0.38
1100	537	0.16	605	0.19	674	0.21	744	0.24	813	0.26	868	0.29	913	0.33	959	0.36	1008	0.39	1059	0.41
1200	567	0.19	633	0.22	700	0.24	768	0.27	833	0.3	884	0.33	928	0.37	974	0.4	1022	0.43	1071	0.45
1300	599	0.22	664	0.25	729	0.28	793	0.3	853	0.33	902	0.37	945	0.41	990	0.44	1037	0.47	1085	0.5
1400	634	0.26	697	0.29	758	0.31	819	0.34	875	0.38	921	0.42	964	0.46	1008	0.49	1054	0.52	1100	0.54

Air Volume (cfm)	External Static (in. w.g.)																			
	1.1		1.2		1.3		1.4		1.5		1.6		1.7		1.8		1.9		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
700	1071	0.32	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
800	1082	0.34	1128	0.37	1169	0.4	1205	0.42	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
900	1090	0.37	1137	0.4	1177	0.43	1214	0.46	1248	0.49	1280	0.51	1310	0.54	1340	0.57	- - -	- - -	- - -	- - -
1000	1098	0.41	1143	0.44	1184	0.47	1221	0.5	1255	0.53	1287	0.56	1318	0.59	1347	0.61	1377	0.64	1406	0.67
1100	1107	0.44	1150	0.47	1191	0.51	1228	0.54	1263	0.57	1295	0.6	1325	0.63	1355	0.66	1384	0.69	1413	0.72
1200	1117	0.48	1160	0.52	1200	0.55	1237	0.59	1271	0.62	1303	0.66	1334	0.69	1363	0.72	1392	0.75	1420	0.78
1300	1130	0.53	1171	0.57	1210	0.6	1246	0.64	1280	0.68	1312	0.71	1342	0.74	1372	0.78	1400	0.81	1429	0.84
1400	1144	0.58	1183	0.62	1221	0.66	1256	0.7	1290	0.73	1321	0.77	1352	0.8	1381	0.84	1410	0.87	1439	0.9

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

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See Page 40 for blower motors and drives and wet coil and options/accessory air resistance data.

Air Volume (cfm)	External Static (in. w.g.)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.9		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	496	0.13	568	0.16	640	0.18	711	0.2	779	0.22	844	0.25	905	0.28	960	0.3	1010	0.33	1061	0.35
1000	521	0.15	592	0.18	662	0.2	731	0.23	796	0.25	858	0.28	916	0.31	969	0.34	1019	0.36	1069	0.38
1100	548	0.18	618	0.21	686	0.23	752	0.25	814	0.28	873	0.31	929	0.34	980	0.37	1029	0.39	1078	0.42
1200	577	0.21	646	0.24	712	0.26	775	0.29	834	0.31	890	0.35	943	0.38	993	0.41	1041	0.43	1089	0.46
1300	611	0.24	677	0.27	740	0.3	800	0.32	856	0.35	909	0.39	959	0.42	1007	0.45	1055	0.47	1102	0.5
1400	654	0.26	713	0.29	771	0.33	826	0.36	878	0.39	928	0.43	976	0.47	1023	0.49	1070	0.52	1117	0.55
1500	698	0.28	751	0.32	802	0.36	852	0.4	901	0.44	948	0.48	995	0.51	1041	0.54	1088	0.57	1133	0.6
1600	738	0.32	785	0.36	831	0.41	878	0.45	923	0.49	969	0.53	1014	0.57	1061	0.59	1107	0.62	1151	0.66
1700	773	0.36	816	0.41	859	0.46	903	0.51	947	0.55	991	0.58	1036	0.62	1082	0.65	1128	0.68	1169	0.72
1800	803	0.42	844	0.47	886	0.52	929	0.57	972	0.61	1016	0.64	1060	0.68	1106	0.71	1150	0.74	1189	0.79
1900	831	0.48	872	0.54	915	0.59	957	0.63	1000	0.67	1043	0.71	1087	0.74	1131	0.78	1173	0.81	1208	0.86

Air Volume (cfm)	External Static (in. w.g.)																			
	1.1		1.2		1.3		1.4		1.5		1.6		1.7		1.8		1.9		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1112	0.38	1157	0.4	1198	0.43	1236	0.46	1273	0.49	1309	0.52	1344	0.56	1380	0.59	- - -	- - -	- - -	- - -
1000	1119	0.41	1164	0.44	1206	0.47	1244	0.5	1281	0.54	1317	0.57	1352	0.6	1387	0.64	1422	0.67	1458	0.71
1100	1126	0.45	1171	0.48	1213	0.51	1252	0.55	1288	0.58	1324	0.62	1359	0.65	1394	0.69	1429	0.72	1464	0.76
1200	1136	0.49	1180	0.52	1221	0.56	1259	0.6	1296	0.63	1331	0.67	1365	0.7	1400	0.74	1435	0.78	1471	0.81
1300	1148	0.53	1190	0.57	1230	0.61	1268	0.65	1304	0.68	1338	0.72	1372	0.76	1406	0.79	1440	0.83	1476	0.87
1400	1161	0.58	1202	0.62	1240	0.66	1277	0.7	1312	0.74	1346	0.78	1379	0.81	1412	0.85	1446	0.89	1482	0.92
1500	1175	0.64	1214	0.68	1252	0.72	1287	0.76	1321	0.8	1355	0.83	1387	0.87	1420	0.91	1454	0.95	1490	0.99
1600	1190	0.7	1228	0.74	1264	0.78	1298	0.82	1332	0.86	1364	0.9	1397	0.93	1430	0.97	1464	1.01	1499	1.06
1700	1206	0.76	1242	0.8	1277	0.84	1310	0.88	1343	0.92	1375	0.96	1407	1	1440	1.04	1475	1.09	1510	1.13
1800	1223	0.83	1257	0.87	1291	0.91	1324	0.95	1356	0.99	1388	1.03	1420	1.08	1453	1.12	1487	1.16	1523	1.21
1900	1240	0.91	1273	0.95	1306	0.99	1338	1.03	1369	1.07	1401	1.12	1433	1.16	1467	1.2	1501	1.25	1537	1.29

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

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See Page 40 for blower motors and drives and wet coil and options/accessory air resistance data.

Air Volume (cfm)	External Static (in. w.g.)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.9		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	493	0.12	564	0.14	637	0.17	712	0.19	788	0.21	847	0.24	894	0.27	942	0.3	993	0.33	1046	0.35
1000	520	0.14	589	0.17	660	0.19	733	0.21	805	0.24	861	0.27	907	0.3	954	0.33	1004	0.36	1056	0.38
1100	549	0.16	617	0.19	686	0.22	756	0.24	823	0.27	876	0.3	921	0.33	968	0.37	1017	0.39	1067	0.42
1200	582	0.19	648	0.22	714	0.25	781	0.27	843	0.3	893	0.34	938	0.37	984	0.41	1032	0.43	1081	0.46
1300	624	0.22	686	0.25	747	0.28	808	0.31	865	0.34	912	0.38	956	0.42	1001	0.45	1048	0.48	1096	0.5
1400	670	0.24	726	0.27	782	0.31	837	0.35	887	0.39	932	0.43	975	0.47	1020	0.5	1066	0.52	1112	0.55
1500	714	0.26	765	0.31	814	0.35	863	0.39	910	0.44	953	0.48	996	0.52	1041	0.55	1086	0.58	1130	0.61
1600	752	0.3	798	0.35	844	0.4	889	0.45	933	0.49	975	0.53	1018	0.57	1062	0.6	1107	0.63	1149	0.67
1700	785	0.35	827	0.4	871	0.46	914	0.51	957	0.55	999	0.59	1042	0.63	1085	0.66	1129	0.69	1169	0.73
1800	813	0.42	855	0.47	898	0.52	940	0.57	983	0.62	1025	0.66	1067	0.69	1110	0.72	1152	0.76	1190	0.8
1900	841	0.49	883	0.54	926	0.6	969	0.65	1011	0.69	1052	0.72	1094	0.76	1136	0.79	1176	0.83	1212	0.89

Air Volume (cfm)	External Static (in. w.g.)																			
	1.1		1.2		1.3		1.4		1.5		1.6		1.7		1.8		1.9		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1097	0.38	1142	0.41	1182	0.43	1218	0.46	1252	0.49	1284	0.52	1314	0.55	1344	0.57	- - -	- - -	- - -	- - -
1000	1105	0.41	1149	0.44	1190	0.47	1226	0.5	1260	0.53	1292	0.56	1322	0.59	1352	0.62	1381	0.65	1410	0.68
1100	1115	0.45	1158	0.48	1198	0.51	1235	0.55	1269	0.58	1301	0.61	1331	0.64	1360	0.67	1389	0.7	1418	0.73
1200	1126	0.49	1168	0.53	1208	0.56	1244	0.6	1278	0.63	1309	0.66	1340	0.69	1369	0.72	1398	0.75	1426	0.78
1300	1140	0.54	1180	0.57	1218	0.61	1254	0.65	1287	0.68	1319	0.72	1349	0.75	1378	0.78	1407	0.81	1436	0.84
1400	1154	0.59	1193	0.63	1230	0.67	1265	0.7	1298	0.74	1330	0.78	1360	0.81	1389	0.85	1418	0.88	1447	0.91
1500	1170	0.65	1208	0.69	1244	0.73	1278	0.77	1310	0.8	1341	0.84	1371	0.88	1401	0.91	1430	0.95	1459	0.98
1600	1187	0.71	1223	0.75	1258	0.79	1291	0.83	1323	0.87	1354	0.91	1384	0.95	1414	0.99	1443	1.02	1474	1.06
1700	1204	0.78	1240	0.82	1274	0.86	1306	0.9	1338	0.95	1369	0.99	1399	1.03	1429	1.06	1459	1.1	1490	1.14
1800	1223	0.85	1258	0.9	1291	0.94	1323	0.99	1354	1.03	1385	1.07	1415	1.11	1445	1.15	1476	1.19	1507	1.23
1900	1243	0.94	1277	0.99	1309	1.03	1341	1.08	1372	1.12	1402	1.16	1433	1.2	1464	1.24	1495	1.28	1527	1.32

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

FOR ALL UNITS ADD:
1 - Any factory installed options air resistance (heat section, economizer, etc.).
2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See Page 40 for blower motors and drives and wet coil and options/accessory air resistance data.

Air Volume (cfm)	External Static (in. w.g.)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.9		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1100	512	0.15	571	0.19	630	0.23	690	0.26	770	0.26	854	0.26	922	0.27	970	0.30	1006	0.35	1045	0.39
1200	535	0.18	593	0.22	651	0.26	710	0.29	788	0.30	868	0.30	933	0.31	978	0.34	1013	0.38	1053	0.42
1300	559	0.22	616	0.26	674	0.29	732	0.32	807	0.34	883	0.34	944	0.35	987	0.38	1022	0.42	1062	0.46
1400	584	0.26	641	0.29	698	0.33	755	0.36	827	0.37	899	0.38	956	0.40	997	0.43	1033	0.47	1072	0.51
1500	615	0.29	671	0.33	726	0.36	782	0.39	850	0.41	917	0.42	970	0.44	1009	0.47	1045	0.52	1085	0.56
1600	665	0.30	716	0.34	768	0.38	819	0.41	879	0.44	937	0.46	985	0.49	1022	0.52	1059	0.57	1098	0.61
1700	723	0.31	768	0.35	814	0.39	860	0.43	910	0.47	959	0.50	1001	0.54	1037	0.58	1074	0.62	1113	0.66
1800	779	0.32	818	0.37	857	0.41	897	0.46	939	0.50	980	0.55	1018	0.59	1054	0.64	1091	0.68	1129	0.72
1900	826	0.36	859	0.41	894	0.45	928	0.50	964	0.56	1000	0.61	1036	0.66	1072	0.70	1109	0.75	1146	0.79
2000	857	0.42	889	0.47	920	0.52	952	0.57	986	0.62	1020	0.68	1055	0.73	1091	0.77	1128	0.82	1164	0.86
2100	878	0.49	909	0.54	940	0.59	973	0.64	1006	0.70	1041	0.75	1076	0.80	1112	0.85	1148	0.89	1185	0.93
2200	897	0.55	929	0.61	961	0.66	994	0.72	1028	0.78	1063	0.83	1099	0.89	1134	0.93	1170	0.97	1206	1.01
2300	918	0.62	950	0.68	983	0.74	1017	0.80	1052	0.86	1087	0.92	1122	0.97	1157	1.02	1193	1.06	1228	1.09
2400	941	0.70	974	0.77	1008	0.83	1042	0.90	1077	0.96	1111	1.01	1146	1.06	1181	1.11	1216	1.15	1250	1.19

Air Volume (cfm)	External Static (in. w.g.)																			
	1.1		1.2		1.3		1.4		1.5		1.6		1.7		1.8		1.9		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1100	1089	0.43	1134	0.46	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
1200	1095	0.46	1139	0.50	1186	0.53	1230	0.57	1266	0.60	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
1300	1104	0.50	1146	0.54	1192	0.57	1234	0.60	1269	0.64	1301	0.68	1334	0.71	1367	0.75	- - -	- - -	- - -	- - -
1400	1114	0.55	1155	0.58	1199	0.61	1240	0.65	1275	0.68	1305	0.72	1338	0.76	1372	0.80	1406	0.83	1440	0.87
1500	1125	0.60	1165	0.63	1208	0.66	1248	0.69	1281	0.73	1311	0.77	1344	0.81	1378	0.85	1412	0.89	1446	0.92
1600	1138	0.65	1177	0.68	1218	0.71	1257	0.75	1290	0.79	1319	0.83	1352	0.87	1385	0.91	1418	0.95	1452	0.98
1700	1152	0.70	1190	0.74	1231	0.77	1268	0.80	1299	0.84	1328	0.89	1360	0.93	1393	0.97	1426	1.01	1459	1.05
1800	1167	0.76	1205	0.80	1244	0.83	1280	0.87	1310	0.91	1338	0.95	1370	0.99	1402	1.04	1434	1.08	1466	1.11
1900	1183	0.82	1221	0.86	1260	0.90	1294	0.94	1323	0.98	1349	1.02	1380	1.07	1412	1.11	1443	1.15	1475	1.19
2000	1201	0.89	1239	0.93	1276	0.97	1310	1.01	1336	1.06	1362	1.10	1392	1.15	1423	1.19	1454	1.23	1485	1.27
2100	1221	0.97	1258	1.01	1294	1.05	1325	1.09	1351	1.14	1376	1.19	1406	1.23	1436	1.27	1466	1.31	1497	1.35
2200	1242	1.05	1277	1.09	1311	1.14	1341	1.18	1365	1.23	1390	1.28	1420	1.32	1450	1.36	1480	1.41	1510	1.45
2300	1262	1.14	1295	1.19	1327	1.24	1355	1.29	1380	1.33	1406	1.37	1435	1.42	1465	1.46	1494	1.50	1524	1.54
2400	1282	1.24	1313	1.30	1343	1.36	1371	1.40	1396	1.44	1423	1.48	1452	1.52	1481	1.56	1510	1.60	1540	1.64

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

FOR ALL UNITS ADD:
1 - Any factory installed options air resistance (heat section, economizer, etc.).
2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See Page 40 for blower motors and drives and wet coil and options/accessory air resistance data.

Air Volume (cfm)	External Static (in. w.g.)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.9		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1100	509	0.15	562	0.18	624	0.20	691	0.22	771	0.24	852	0.25	919	0.28	970	0.31	1010	0.35	1049	0.38
1200	535	0.18	589	0.21	650	0.23	715	0.25	792	0.27	869	0.29	932	0.32	980	0.35	1019	0.38	1058	0.42
1300	564	0.21	618	0.24	678	0.27	741	0.29	815	0.31	887	0.33	946	0.36	991	0.39	1030	0.43	1068	0.47
1400	604	0.24	657	0.27	715	0.30	775	0.33	842	0.35	908	0.37	962	0.40	1004	0.43	1042	0.47	1080	0.51
1500	656	0.26	706	0.30	760	0.33	814	0.36	874	0.39	931	0.41	979	0.45	1019	0.48	1056	0.53	1094	0.57
1600	712	0.29	758	0.32	807	0.36	855	0.39	906	0.43	955	0.46	997	0.50	1035	0.54	1071	0.58	1109	0.62
1700	766	0.32	808	0.36	850	0.40	892	0.44	936	0.47	978	0.51	1016	0.56	1052	0.60	1088	0.64	1126	0.68
1800	814	0.36	851	0.40	888	0.44	925	0.49	963	0.53	1000	0.57	1035	0.62	1071	0.66	1107	0.70	1143	0.74
1900	853	0.41	886	0.46	919	0.50	952	0.55	986	0.60	1021	0.64	1056	0.69	1091	0.73	1126	0.77	1163	0.81
2000	883	0.48	913	0.53	944	0.57	976	0.62	1009	0.67	1043	0.71	1078	0.76	1112	0.80	1148	0.84	1183	0.88
2100	906	0.56	936	0.60	967	0.65	999	0.70	1033	0.75	1067	0.79	1101	0.84	1135	0.88	1170	0.92	1206	0.96
2200	930	0.64	960	0.68	991	0.73	1024	0.78	1058	0.83	1092	0.88	1126	0.92	1160	0.96	1195	1.00	1230	1.04
2300	954	0.72	985	0.77	1017	0.82	1051	0.87	1085	0.92	1119	0.96	1152	1.00	1186	1.04	1220	1.08	1254	1.13
2400	981	0.81	1013	0.86	1046	0.91	1079	0.96	1113	1.00	1146	1.05	1180	1.09	1213	1.13	1245	1.18	1278	1.22

Air Volume (cfm)	External Static (in. w.g.)																			
	1.1		1.2		1.3		1.4		1.5		1.6		1.7		1.8		1.9		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1100	1091	0.42	1134	0.45	1176	0.48	1218	0.51	1258	0.54	1297	0.57	1335	0.59	- - -	- - -	- - -	- - -	- - -	- - -
1200	1099	0.46	1141	0.49	1182	0.52	1223	0.55	1263	0.58	1302	0.61	1339	0.64	1376	0.67	1410	0.70	1444	0.72
1300	1108	0.50	1149	0.53	1190	0.56	1230	0.59	1270	0.63	1308	0.66	1345	0.70	1381	0.73	1415	0.75	1449	0.78
1400	1120	0.55	1160	0.58	1200	0.61	1240	0.65	1278	0.68	1315	0.72	1352	0.75	1387	0.78	1421	0.81	1454	0.84
1500	1133	0.60	1172	0.63	1212	0.67	1250	0.70	1288	0.74	1324	0.77	1360	0.81	1394	0.84	1428	0.87	1460	0.90
1600	1147	0.66	1186	0.69	1225	0.72	1263	0.76	1299	0.80	1334	0.83	1369	0.87	1402	0.90	1435	0.94	1467	0.96
1700	1164	0.72	1202	0.75	1240	0.78	1276	0.82	1311	0.86	1345	0.90	1379	0.93	1411	0.97	1443	1.00	1475	1.03
1800	1181	0.78	1219	0.81	1256	0.85	1291	0.89	1324	0.93	1357	0.97	1390	1.00	1421	1.04	1453	1.07	1483	1.10
1900	1200	0.85	1237	0.88	1273	0.92	1306	0.96	1339	1.00	1371	1.04	1402	1.08	1433	1.11	1463	1.15	1493	1.18
2000	1220	0.92	1257	0.96	1291	1.00	1323	1.04	1354	1.08	1385	1.12	1416	1.16	1446	1.20	1476	1.23	1505	1.26
2100	1242	1.00	1277	1.04	1310	1.08	1340	1.13	1371	1.17	1401	1.21	1431	1.25	1460	1.29	1489	1.32	1519	1.36
2200	1265	1.08	1299	1.13	1330	1.18	1359	1.23	1388	1.27	1418	1.31	1447	1.35	1476	1.39	1504	1.42	1533	1.45
2300	1288	1.17	1320	1.23	1350	1.28	1378	1.34	1406	1.38	1435	1.42	1464	1.46	1492	1.50	1521	1.53	1549	1.56
2400	1311	1.28	1341	1.33	1370	1.40	1397	1.45	1425	1.50	1454	1.54	1482	1.57	1510	1.61	1538	1.64	1567	1.67

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

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See Page 40 for blower motors and drives and wet coil and options/accessory air resistance data.

Air Volume (cfm)	External Static (in. w.g.)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.9		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1900	480	0.38	512	0.44	545	0.51	579	0.57	614	0.63	648	0.7	683	0.76	719	0.83	752	0.89	781	0.95
2000	493	0.43	525	0.49	558	0.56	592	0.62	626	0.68	659	0.75	693	0.81	728	0.88	759	0.94	788	1
2100	507	0.48	539	0.54	572	0.61	605	0.67	639	0.74	671	0.8	704	0.86	737	0.93	768	0.99	795	1.04
2200	522	0.53	554	0.6	587	0.66	619	0.73	652	0.79	684	0.86	716	0.92	747	0.98	777	1.04	803	1.1
2300	537	0.59	569	0.65	602	0.72	634	0.79	666	0.85	697	0.91	728	0.98	758	1.04	786	1.1	812	1.15
2400	553	0.65	585	0.71	617	0.78	649	0.85	680	0.91	711	0.98	740	1.04	769	1.1	796	1.15	821	1.21
2500	570	0.71	602	0.78	633	0.84	665	0.91	695	0.97	725	1.04	753	1.1	781	1.16	807	1.22	832	1.27
2600	588	0.77	619	0.84	650	0.91	680	0.97	710	1.04	739	1.1	767	1.16	793	1.22	818	1.28	842	1.33
2700	607	0.84	637	0.91	667	0.97	697	1.04	726	1.11	753	1.17	780	1.23	806	1.29	830	1.35	854	1.4
2800	626	0.91	655	0.97	684	1.04	713	1.11	741	1.18	768	1.24	794	1.3	819	1.36	842	1.42	866	1.47
2900	646	0.98	674	1.05	702	1.11	730	1.18	757	1.25	783	1.32	808	1.38	832	1.44	855	1.49	878	1.54

Air Volume (cfm)	External Static (in. w.g.)																			
	1.1		1.2		1.3		1.4		1.5		1.6		1.7		1.8		1.9		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1900	807	1	832	1.04	857	1.07	883	1.11	912	1.14	941	1.17	968	1.21	993	1.25	1017	1.29	1039	1.34
2000	813	1.04	838	1.08	862	1.12	889	1.15	917	1.19	945	1.22	972	1.26	997	1.3	1020	1.35	1042	1.4
2100	820	1.09	844	1.13	869	1.17	895	1.21	923	1.24	951	1.28	977	1.32	1001	1.36	1024	1.41	1046	1.46
2200	828	1.14	852	1.18	877	1.22	903	1.26	930	1.3	957	1.33	983	1.37	1006	1.42	1028	1.47	1050	1.53
2300	836	1.2	861	1.24	885	1.28	911	1.31	938	1.35	964	1.39	989	1.43	1012	1.48	1033	1.54	1054	1.6
2400	846	1.25	870	1.29	895	1.33	920	1.37	947	1.41	972	1.45	996	1.5	1018	1.55	1039	1.61	1059	1.67
2500	856	1.31	880	1.35	905	1.39	930	1.43	956	1.47	980	1.52	1003	1.57	1024	1.63	1044	1.69	1064	1.76
2600	866	1.38	891	1.42	915	1.46	940	1.5	965	1.54	988	1.59	1010	1.65	1031	1.71	1050	1.78	1069	1.84
2700	878	1.44	902	1.48	926	1.52	950	1.57	974	1.61	997	1.67	1018	1.73	1037	1.8	1056	1.87	1075	1.93
2800	889	1.51	913	1.55	937	1.59	961	1.64	984	1.69	1006	1.75	1026	1.82	1044	1.89	1063	1.96	1081	2.03
2900	902	1.58	925	1.63	949	1.67	972	1.72	994	1.78	1015	1.84	1034	1.91	1052	1.99	1069	2.06	1087	2.13

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

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, etc.).

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See Page 40 for blower motors and drives and wet coil and options/accessory air resistance data.

Air Volume (cfm)	External Static (in. w.g.)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.9		1.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1900	507	0.55	538	0.58	571	0.6	604	0.63	639	0.66	673	0.7	707	0.74	740	0.78	772	0.82	802	0.86
2000	522	0.59	554	0.62	586	0.64	620	0.67	653	0.71	687	0.74	720	0.78	752	0.82	783	0.87	812	0.91
2100	539	0.63	571	0.66	603	0.69	636	0.72	669	0.75	702	0.79	734	0.83	765	0.88	795	0.92	823	0.97
2200	557	0.68	588	0.71	620	0.74	652	0.77	685	0.81	717	0.84	748	0.89	778	0.93	807	0.98	834	1.03
2300	576	0.73	607	0.76	638	0.79	670	0.83	701	0.86	733	0.9	763	0.95	792	0.99	820	1.04	846	1.09
2400	596	0.79	626	0.82	657	0.85	688	0.89	718	0.92	749	0.96	778	1.01	806	1.06	833	1.11	858	1.16
2500	616	0.85	645	0.88	676	0.91	706	0.95	736	0.99	765	1.03	794	1.08	821	1.13	847	1.18	871	1.23
2600	636	0.91	665	0.94	695	0.98	724	1.02	754	1.06	782	1.1	809	1.15	836	1.2	861	1.25	885	1.3
2700	657	0.97	685	1.01	714	1.04	743	1.08	771	1.13	799	1.17	826	1.22	851	1.27	875	1.32	899	1.37
2800	677	1.03	706	1.07	734	1.11	762	1.16	790	1.2	816	1.25	842	1.3	867	1.35	890	1.4	913	1.45
2900	698	1.1	726	1.14	754	1.19	781	1.23	808	1.28	834	1.33	859	1.38	883	1.43	906	1.48	928	1.54

Air Volume (cfm)	External Static (in. w.g.)																			
	1.1		1.2		1.3		1.4		1.5		1.6		1.7		1.8		1.9		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1900	830	0.91	857	0.95	883	0.99	910	1.04	937	1.09	964	1.13	991	1.18	1017	1.23	1042	1.28	1067	1.34
2000	839	0.96	865	1	891	1.05	917	1.09	944	1.14	970	1.19	996	1.24	1022	1.29	1047	1.34	1071	1.4
2100	849	1.02	874	1.06	900	1.11	926	1.15	952	1.2	978	1.25	1003	1.3	1028	1.35	1052	1.41	1075	1.46
2200	860	1.08	885	1.12	910	1.17	935	1.21	960	1.26	986	1.31	1010	1.36	1034	1.42	1058	1.48	1081	1.53
2300	871	1.14	895	1.19	920	1.23	945	1.28	969	1.33	994	1.38	1018	1.43	1042	1.49	1065	1.55	1087	1.61
2400	883	1.21	907	1.25	931	1.3	955	1.35	979	1.4	1003	1.45	1027	1.51	1050	1.57	1072	1.63	1094	1.69
2500	895	1.28	919	1.32	942	1.37	966	1.42	990	1.48	1013	1.53	1036	1.59	1059	1.65	1081	1.71	1102	1.78
2600	908	1.35	931	1.4	955	1.45	978	1.5	1001	1.56	1024	1.62	1046	1.68	1068	1.74	1089	1.8	1110	1.87
2700	922	1.43	945	1.48	967	1.53	990	1.59	1013	1.65	1035	1.71	1056	1.77	1078	1.84	1099	1.9	1119	1.96
2800	936	1.51	958	1.56	980	1.62	1003	1.68	1025	1.74	1046	1.8	1067	1.87	1088	1.93	1109	2	1129	2.06
2900	950	1.6	972	1.66	994	1.72	1016	1.78	1037	1.84	1058	1.91	1079	1.97	1099	2.04	1119	2.11	1139	2.17

BLOWER DATA

BELT DRIVE KIT SPECIFICATIONS - 036-060

Model No.	Motor HP		No. of Speeds	Drive Kits and RPM Range					
	Nominal	Maximum		A01	A02	A03	A05	A06	A07
036	0.75	0.86	2	low 449-673 high 673-1010	- - -	- - -	- - -	- - -	- - -
	1	1.15	2	- - -	- - -	- - -	low 598-897 high 897-1346	- - -	- - -
048	0.75	0.86	2	- - -	low 497-673 high 745-1117	- - -	- - -	- - -	- - -
	2	2.3	2	- - -	- - -	- - -	- - -	low 714-953 high 1071-1429	- - -
060	1	1.15	2	- - -	- - -	low 555-833 high 833-1250	- - -	- - -	- - -
	2	2.3	2	- - -	- - -	- - -	- - -	- - -	low 808-1032 high 1212-1548

BELT DRIVE KIT SPECIFICATIONS - 072-074

Model No.	Motor HP		No. of Speeds	Drive Kits and RPM Range		
	Nominal	Maximum		AA01	AA02	AA03
072	1	1.15	1	522-784	- - -	- - -
	2	2.3	1	- - -	632-875	798-1105
074	1	1.15	2	522-784	- - -	- - -
	2	2.3	2	- - -	632-875	798-1105

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

Air Volume cfm	Wet Indoor Coil			Humiditrol Dehumidification Coil	Electric Heat	Economizer	Filters	
	036	048	060, 072, 074				MERV 8	MERV 13
036-048 MODELS								
800	0.01	0.01	- - -	0.00	0.01	0.04	0.04	0.05
1000	0.02	0.02	- - -	0.00	0.03	0.04	0.04	0.07
1200	0.03	0.04	- - -	0.01	0.06	0.04	0.04	0.07
1400	0.04	0.05	- - -	0.02	0.09	0.04	0.04	0.07
1600	0.05	0.06	- - -	0.03	0.12	0.04	0.04	0.07
1800	0.06	0.07	- - -	0.04	0.15	0.05	0.04	0.07
2000	0.08	0.09	- - -	0.04	0.18	0.05	0.05	0.08
060, 072, 074 MODELS								
1000	- - -	- - -	0.02	0.00	0.01	0.04	0.03	0.05
1200	- - -	- - -	0.04	0.00	0.03	0.04	0.03	0.07
1400	- - -	- - -	0.05	0.01	0.06	0.04	0.04	0.07
1600	- - -	- - -	0.07	0.02	0.09	0.04	0.04	0.07
1800	- - -	- - -	0.08	0.02	0.12	0.05	0.05	0.07
2000	- - -	- - -	0.10	0.03	0.15	0.05	0.05	0.07
2200	- - -	- - -	0.11	0.04	0.18	0.05	0.05	0.08
2400	- - -	- - -	0.13	0.04	0.20	0.05	0.05	0.08
2600	- - -	- - -	0.15	0.05	0.22	0.06	0.05	0.08
2800	- - -	- - -	0.16	0.05	0.24	0.06	0.05	0.08
3000	- - -	- - -	0.18	0.06	0.28	0.06	0.05	0.08

POWER EXHAUST FAN PERFORMANCE

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

BLOWER DATA

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

Air Volume cfm	RTD9-65S Step-Down Diffuser			FD9-65S Flush Diffuser	RTD11-95S Step-Down Diffuser			FD11-95S Flush Diffuser
	2 Ends Open	1 Side & 2 Ends Open	All Ends & Sides Open		2 Ends Open	1 Side & 2 Ends Open	All Ends & Sides Open	
800	0.15	0.13	0.11	0.11	- - -	- - -	- - -	- - -
1000	0.19	0.16	0.14	0.14	- - -	- - -	- - -	- - -
1200	0.25	0.20	0.17	0.17	- - -	- - -	- - -	- - -
1400	0.33	0.26	0.20	0.20	- - -	- - -	- - -	- - -
1600	0.43	0.32	0.20	0.24	- - -	- - -	- - -	- - -
1800	0.56	0.40	0.30	0.30	0.13	0.11	0.09	0.09
2000	0.73	0.50	0.36	0.36	0.15	0.13	0.11	0.10
2200	0.95	0.63	0.44	0.44	0.18	0.15	0.12	0.12
2400	- - -	- - - -	- - -	- - -	0.21	0.18	0.15	0.14
2600	- - -	- - - -	- - -	- - -	0.24	0.21	0.18	0.17
2800	- - -	- - - -	- - -	- - -	0.27	0.24	0.21	0.20
3000	- - -	- - - -	- - -	- - -	0.32	0.29	0.25	0.25

CEILING DIFFUSER AIR THROW DATA

Air Volume - cfm	[1] Effective Throw - ft.	
Model No.	**RTD9-65S**	**FD9-65S**
800	10 - 17	14 - 18
1000	10 - 17	15 - 20
1200	11 - 18	16 - 22
1400	12 - 19	17 - 24
1600	12 - 20	18 - 25
1800	13 - 21	20 - 28
2000	14 - 23	21 - 29
2200	16 - 25	22 - 30
Model No.	**RTD11-95S**	**FD11-95S**
2600	24 - 29	19 - 24
2800	25 - 30	20 - 28
3000	27 - 33	21 - 29

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

ELECTRICAL/ELECTRIC HEAT DATA — HIGH EFFICIENCY - 3 TON

		Model No.	LCH036H4			
[1] Voltage - 60hz			208/230V - 1 Ph	208/230V - 3 Ph	460V - 3 Ph	575V - 3 Ph
Compressor		Rated Load Amps	14.2	8.8	4	3.4
		Locked Rotor Amps	78.1	70	31	27
Outdoor Fan Motor		Full Load Amps	4.1	4.1	2.1	1.6
Power Exhaust (1) 0.33 HP		Full Load Amps	2.4	2.4	1.3	1
Service Outlet 115V GFI (amps)			15	15	15	20
Indoor Blower Motor		Horsepower	0.5	0.5	0.5	0.5
		Full Load Amps	4.3	4.3	2.2	1.7
[2] Maximum Overcurrent Protection		Unit Only	40	25	15	15
		With (1) 0.33 HP Power Exhaust	40	30	15	15
[3] Minimum Circuit Ampacity		Unit Only	27	20	10	8
		With (1) 0.33 HP Power Exhaust	29	22	11	9

ELECTRIC HEAT DATA

Electric Heat Voltage			208V	240V	208V	240V	480V	600V
[2] Maximum Overcurrent Protection	Unit+ Electric Heat	7.5 kW	[4] 40	45	[4] 25	30	15	15
		15 kW	[4] 80	90	[4] 45	60	30	25
[3] Minimum Circuit Ampacity	Unit+ Electric Heat	7.5 kW	40	45	25	28	15	12
		15 kW	74	84	45	51	26	21
[2] Maximum Overcurrent Protection	Unit+ Electric Heat and (1) 0.33 HP Power Exhaust	7.5 kW	[4] 45	50	[4] 30	35	20	15
		15 kW	[4] 80	90	[4] 50	60	30	25
[3] Minimum Circuit Ampacity	Unit+ Electric Heat and (1) 0.33 HP Power Exhaust	7.5 kW	43	48	28	31	16	13
		15 kW	77	87	48	54	27	22

ELECTRICAL ACCESSORIES

Disconnect	7.5 kW	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**
	15 kW	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.
[1] Extremes of operating range are plus and minus 10% of line voltage.
[2] HACR type breaker or fuse.
[3] Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
[4] Factory installed circuit breaker not available.

ELECTRICAL/ELECTRIC HEAT DATA — STANDARD EFFICIENCY - 3 TON

		Model No.	LCH036S4							
[1] Voltage - 60hz			208/230V - 3 Ph				460V - 3 Ph		575V - 3 Ph	
Compressor		Rated Load Amps	8.8				4		3.4	
		Locked Rotor Amps	70				31		27	
Outdoor Fan Motor		Full Load Amps	0.9				0.6		0.5	
Power Exhaust (1) 0.33 HP		Full Load Amps	2.4				1.3		1	
Service Outlet 115V GFI (amps)			15				15		20	
Indoor Blower Motor		Horsepower	0.75		1		0.75	1	0.75	1
		Full Load Amps	3.5		4.6		1.6	2.1	1.3	1.7
[2] Maximum Overcurrent Protection		Unit Only	20		25		15	15	15	15
		With (1) 0.33 HP Power Exhaust	25		25		15	15	15	15
[3] Minimum Circuit Ampacity		Unit Only	16		17		8	8	7	7
		With (1) 0.33 HP Power Exhaust	18		19		9	9	8	8

ELECTRIC HEAT DATA

Electric Heat Voltage			208V	240V	208V	240V	480V	480V	600V	600V
[2] Maximum Overcurrent Protection	Unit+ Electric Heat	7.5 kW	[4] 25	30	30	30	15	15	15	15
		15 kW	[4] 45	50	[4] 45	60	25	30	20	25
[3] Minimum Circuit Ampacity	Unit+ Electric Heat	7.5 kW	24	27	26	29	14	14	11	12
		15 kW	44	50	45	51	25	26	20	21
[2] Maximum Overcurrent Protection	Unit+ Electric Heat and (1) 0.33 HP Power Exhaust	7.5 kW	30	30	[4] 30	35	15	20	15	15
		15 kW	[4] 50	60	[4] 50	60	30	30	25	25
[3] Minimum Circuit Ampacity	Unit+ Electric Heat and (1) 0.33 HP Power Exhaust	7.5 kW	27	30	29	32	15	16	12	13
		15 kW	47	53	48	54	27	27	21	22

ELECTRICAL ACCESSORIES

Disconnect	7.5 kW	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**
	15 kW	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.
[1] Extremes of operating range are plus and minus 10% of line voltage.
[2] HACR type breaker or fuse.
[3] Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
[4] Factory installed circuit breaker not available.

ELECTRICAL/ELECTRIC HEAT DATA — HIGH EFFICIENCY - 4 TON

		Model No.	LCH048H4			
[1] Voltage - 60hz			208/230V - 1 Ph	208/230V - 3 Ph	460V - 3 Ph	575V - 3 Ph
Compressor		Rated Load Amps	17.1	11.7	5.7	4.9
		Locked Rotor Amps	109	123	60	41
Outdoor Fan Motor		Full Load Amps	4.1	4.1	2.1	1.6
Power Exhaust (1) 0.33 HP		Full Load Amps	2.4	2.4	1.3	1
Service Outlet 115V GFI (amps)			15	15	15	20
Indoor Blower Motor		Horsepower	0.75	0.75	0.75	0.75
		Full Load Amps	6.1	6.1	3.1	2.4
[2] Maximum Overcurrent Protection		Unit Only	45	35	15	15
		With (1) 0.33 HP Power Exhaust	50	35	15	15
[3] Minimum Circuit Ampacity		Unit Only	32	25	13	11
		With (1) 0.33 HP Power Exhaust	34	28	14	12

ELECTRIC HEAT DATA

Electric Heat Voltage			208V	240V	208V	240V	480V	600V
[2] Maximum Overcurrent Protection	Unit+ Electric Heat	7.5 kW	[4] 45	50	35	35	20	15
		15 kW	[4] 80	90	[4] 50	60	30	25
[3] Minimum Circuit Ampacity	Unit+ Electric Heat	7.5 kW	42	47	28	31	16	13
		15 kW	76	86	47	53	27	22
[2] Maximum Overcurrent Protection	Unit+ Electric Heat and (1) 0.33 HP Power Exhaust	7.5 kW	50	50	35	35	20	15
		15 kW	[4] 80	90	[4] 50	60	30	25
[3] Minimum Circuit Ampacity	Unit+ Electric Heat and (1) 0.33 HP Power Exhaust	7.5 kW	45	50	31	34	17	14
		15 kW	79	89	50	56	29	23

ELECTRICAL ACCESSORIES

Disconnect	7.5 kW	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**
	15 kW	**20W22**	**20W22**	**20W21**	**20W21**	**20W21**	**20W21**

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.
[1] Extremes of operating range are plus and minus 10% of line voltage.
[2] HACR type breaker or fuse.
[3] Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
[4] Factory installed circuit breaker not available.

ELECTRICAL/ELECTRIC HEAT DATA — STANDARD EFFICIENCY - 4 TON

		Model No.	LCH048S4					
[1] **Voltage - 60hz**			**208/230V - 3 Ph**		**460V - 3 Ph**		**575V - 3 Ph**	
Compressor		Rated Load Amps	11.7		5.7		4.9	
		Locked Rotor Amps	123		60		41	
Outdoor Fan Motor		Full Load Amps	1.7		1.1		0.7	
Power Exhaust\ (1) 0.33 HP		Full Load Amps	2.4		1.3		1	
Service Outlet 115V GFI (amps)			15		15		20	
Indoor Blower Motor		Horsepower	0.75	2	0.75	2	0.75	2
		Full Load Amps	3.5	7.5	1.6	3.4	1.3	2.7
[2] Maximum Overcurrent Protection		Unit Only	30	35	15	15	15	15
		With (1) 0.33 HP Power Exhaust	30	35	15	15	15	15
[3] Minimum Circuit Ampacity		Unit Only	20	24	10	12	9	10
		With (1) 0.33 HP Power Exhaust	23	27	12	13	10	11

ELECTRIC HEAT DATA

Electric Heat Voltage			**208V**	**240V**	**208V**	**240V**	**480V**	**480V**	**600V**	**600V**
[2] Maximum Overcurrent Protection	Unit+ Electric Heat	7.5 kW	30	30	35	35	15	20	15	15
		15 kW	[4] 45	50	[4] 50	60	25	30	20	25
[3] Minimum Circuit Ampacity	Unit+ Electric Heat	7.5 kW	24	27	29	32	14	16	11	13
		15 kW	44	50	49	55	25	27	20	22
[2] Maximum Overcurrent Protection	Unit+ Electric Heat and (1) 0.33 HP Power Exhaust	7.5 kW	30	30	35	35	15	20	15	15
		15 kW	[4] 50	60	60	60	30	30	25	25
[3] Minimum Circuit Ampacity	Unit+ Electric Heat and (1) 0.33 HP Power Exhaust	7.5 kW	27	30	32	35	15	18	12	14
		15 kW	47	53	52	58	27	29	21	23

ELECTRICAL ACCESSORIES

Disconnect	7.5 kW	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**
	15 kW	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**	**20W21**

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.
[1] Extremes of operating range are plus and minus 10% of line voltage.
[2] HACR type breaker or fuse.
[3] Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
[4] Factory installed circuit breaker not available.

ELECTRICAL/ELECTRIC HEAT DATA — HIGH EFFICIENCY - 5 TON

	Model No.		**LCH060H4**					
[1] Voltage - 60hz			**208/230V - 1 Ph**		**208/230V - 3 Ph**		**460V - 3 Ph**	**575V - 3 Ph**
Compressor	Rated Load Amps		23.5		14		6.5	4.9
	Locked Rotor Amps		118		93		60	41
Outdoor Fan Motor	Full Load Amps		4.1		4.1		2.1	1.6
Power Exhaust (1) 0.33 HP	Full Load Amps		2.4		2.4		1.3	1
Service Outlet 115V GFI (amps)			15		15		15	20
Indoor Blower Motor	Horsepower		1		1		1	1
	Full Load Amps		7.4		7.4		3.7	3
[2] Maximum Overcurrent Protection	Unit Only		60		40		20	15
	With (1) 0.33 HP Power Exhaust		60		45		20	15
[3] Minimum Circuit Ampacity	Unit Only		41		29		14	11
	With (1) 0.33 HP Power Exhaust		44		32		16	12
ELECTRIC HEAT DATA								
Electric Heat Voltage			**208V**	**240V**	**208V**	**240V**	**480V**	**600V**
[2] Maximum Overcurrent Protection	Unit+ Electric Heat	7.5 kW	60	60	40	40	20	15
		15 kW	[4] 80	90	[4] 50	60	30	25
		22.5 kW	[4] 125	150	[4] 70	80	40	35
[3] Minimum Circuit Ampacity	Unit+ Electric Heat	7.5 kW	44	49	29	32	16	13
		15 kW	77	88	49	55	28	22
		22.5 kW	111	127	68	77	39	31
[2] Maximum Overcurrent Protection	Unit+ Electric Heat and (1) 0.33 HP Power Exhaust	7.5 kW	60	60	45	45	20	15
		15 kW	[4] 80	100	60	60	30	25
		22.5 kW	[4] 125	150	80	80	45	35
[3] Minimum Circuit Ampacity	Unit+ Electric Heat and (1) 0.33 HP Power Exhaust	7.5 kW	47	52	32	35	18	15
		15 kW	80	91	52	58	29	24
		22.5 kW	114	130	71	80	41	33
ELECTRICAL ACCESSORIES								
Disconnect		7.5 kW	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**
		15 kW	**22A24**	**22A24**	**22A23**	**22A23**	**22A23**	**22A23**
		22.5 kW	**22A24**	**22A24**	**22A23**	**22A23**	**22A23**	**22A23**

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.
[1] Extremes of operating range are plus and minus 10% of line voltage.
[2] HACR type breaker or fuse.
[3] Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
[4] Factory installed circuit breaker not available.

ELECTRICAL/ELECTRIC HEAT DATA — STANDARD EFFICIENCY - 5 TON

		Model No.	LCH060S4					
[1] **Voltage - 60hz**			**208/230V - 3 Ph**		**460V - 3 Ph**		**575V - 3 Ph**	
Compressor		Rated Load Amps	14		6.5		4.9	
		Locked Rotor Amps	93		60		41	
Outdoor Fan Motor		Full Load Amps	2.4		1.3		1	
Power Exhaust (1) 0.33 HP		Full Load Amps	2.4		1.3		1	
Service Outlet 115V GFI (amps)			15		15		20	
Indoor Blower Motor		Horsepower	1	2	1	2	1	2
		Full Load Amps	4.6	7.5	2.1	3.4	1.7	2.7
[2] Maximum Overcurrent Protection		Unit Only	35	40	15	15	15	15
		With (1) 0.33 HP Power Exhaust	40	40	15	20	15	15
[3] Minimum Circuit Ampacity		Unit Only	25	28	12	13	9	10
		With (1) 0.33 HP Power Exhaust	27	30	13	15	10	11

ELECTRIC HEAT DATA

Electric Heat Voltage			**208V**	**240V**	**208V**	**240V**	**480V**	**480V**	**600V**	**600V**
[2] Maximum Overcurrent Protection	Unit+ Electric Heat	7.5 kW	35	35	40	40	15	20	15	15
		15 kW	[4] 45	60	[4] 50	60	30	30	25	25
		22.5 kW	[4] 70	80	[4] 70	80	40	40	30	35
[3] Minimum Circuit Ampacity	Unit+ Electric Heat	7.5 kW	26	29	29	32	14	16	12	13
		15 kW	45	51	49	55	26	27	21	22
		22.5 kW	65	74	69	78	37	39	30	31
[2] Maximum Overcurrent Protection	Unit+ Electric Heat and (1) 0.33 HP Power Exhaust	7.5 kW	40	40	40	40	20	20	15	15
		15 kW	[4] 50	60	60	60	30	30	25	25
		22.5 kW	[4] 70	80	[4] 80	90	40	40	35	35
[3] Minimum Circuit Ampacity	Unit+ Electric Heat and (1) 0.33 HP Power Exhaust	7.5 kW	29	32	32	35	16	18	13	14
		15 kW	48	54	52	58	27	29	22	23
		22.5 kW	68	77	72	81	39	40	31	32

ELECTRICAL ACCESSORIES

Disconnect	7.5 kW	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**
	15 kW	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**
	22.5 kW	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.
[1] Extremes of operating range are plus and minus 10% of line voltage.
[2] HACR type breaker or fuse.
[3] Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
[4] Factory installed circuit breaker not available.

ELECTRICAL/ELECTRIC HEAT DATA — HIGH EFFICIENCY - 6 TON

		Model No.	LCH072H4					
[1] Voltage - 60hz			208/230V - 3 Ph		460V - 3 Ph		575V - 3 Ph	
Compressor		Rated Load Amps	19.6		8.2		6.6	
		Locked Rotor Amps	136		66.1		55.3	
Outdoor Fan Motor		Full Load Amps	2.4		1.3		1	
Power Exhaust (1) 0.33 HP		Full Load Amps	2.4		1.3		1	
Service Outlet 115V GFI (amps)			15		15		20	
Indoor Blower Motor		Horsepower	1	2	1	2	1	2
		Full Load Amps	4.6	7.5	2.1	3.4	1.7	2.7
[2] Maximum Overcurrent Protection		Unit Only	50	50	20	20	15	15
		With (1) 0.33 HP Power Exhaust	50	50	20	20	15	15
[3] Minimum Circuit Ampacity		Unit Only	32	35	14	15	11	12
		With (1) 0.33 HP Power Exhaust	34	37	15	17	12	13

ELECTRIC HEAT DATA

Electric Heat Voltage			208V	240V	208V	240V	480V	480V	600V	600V
[2] Maximum Overcurrent Protection	Unit+ Electric Heat	7.5 kW	50	50	50	50	20	20	15	15
		15 kW	[4] 50	60	[4] 50	60	30	30	25	25
		22.5 kW	[4] 70	80	[4] 70	80	40	40	30	35
		30 kW	[4] 90	100	[4] 90	100	50	50	40	40
[3] Minimum Circuit Ampacity	Unit+ Electric Heat	7.5 kW	32	32	35	35	14	16	12	13
		15 kW	45	51	49	55	26	27	21	22
		22.5 kW	65	74	69	78	37	39	30	31
		30 kW	84	96	88	100	48	50	39	40
[2] Maximum Overcurrent Protection	Unit+ Electric Heat and (1) 0.33 HP Power Exhaust	7.5 kW	50	50	50	50	20	20	15	15
		15 kW	[4] 50	60	60	60	30	30	25	25
		22.5 kW	[4] 70	80	[4] 80	90	40	40	35	35
		30 kW	[4] 90	100	[4] 100	110	50	60	40	45
[3] Minimum Circuit Ampacity	Unit+ Electric Heat and (1) 0.33 HP Power Exhaust	7.5 kW	34	34	37	37	16	18	13	14
		15 kW	48	54	52	58	27	29	22	23
		22.5 kW	68	77	72	81	39	40	31	32
		30 kW	87	99	91	103	50	51	40	41

ELECTRICAL ACCESSORIES

Disconnect	7.5 kW	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**
	15 kW	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**
	22.5 kW	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**
	30 kW	**22A24**	**22A24**	**22A24**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.
[1] Extremes of operating range are plus and minus 10% of line voltage.
[2] HACR type breaker or fuse.
[3] Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
[4] Factory installed circuit breaker not available.

ELECTRICAL/ELECTRIC HEAT DATA — HIGH EFFICIENCY - 6 TON

		Model No.	LCH074H4					
[1] Voltage - 60hz			208/230V - 3 Ph		460V - 3 Ph		575V - 3 Ph	
Compressor		Rated Load Amps	17.6		8.5		6.3	
		Locked Rotor Amps	136		66.1		55.3	
Outdoor Fan Motor		Full Load Amps	2.4		1.3		1	
Power Exhaust (1) 0.33 HP		Full Load Amps	2.4		1.3		1	
Service Outlet 115V GFI (amps)			15		15		20	
Indoor Blower Motor		Horsepower	1	2	1	2	1	2
		Full Load Amps	4.6	7.5	2.1	3.4	1.7	2.7
[2] Maximum Overcurrent Protection		Unit Only	45	45	20	20	15	15
		With (1) 0.33 HP Power Exhaust	45	50	20	25	15	15
[3] Minimum Circuit Ampacity		Unit Only	29	32	15	16	11	12
		With (1) 0.33 HP Power Exhaust	32	35	16	17	12	13

ELECTRIC HEAT DATA

Electric Heat Voltage			208V	240V	208V	240V	480V	480V	600V	600V
[2] Maximum Overcurrent Protection	Unit+ Electric Heat	7.5 kW	45	45	45	45	20	20	15	15
		15 kW	[4] 45	60	[4] 50	60	30	30	25	25
		22.5 kW	[4] 70	80	[4] 70	80	40	40	30	35
		30 kW	[4] 90	100	[4] 90	100	50	50	40	40
[3] Minimum Circuit Ampacity	Unit+ Electric Heat	7.5 kW	29	29	32	32	15	16	12	13
		15 kW	45	51	49	55	26	27	21	22
		22.5 kW	65	74	69	78	37	39	30	31
		30 kW	84	96	88	100	48	50	39	40
[2] Maximum Overcurrent Protection	Unit+ Electric Heat and (1) 0.33 HP Power Exhaust	7.5 kW	45	45	50	50	20	25	15	15
		15 kW	[4] 50	60	60	60	30	30	25	25
		22.5 kW	[4] 70	80	[4] 80	90	40	40	35	35
		30 kW	[4] 90	100	[4] 100	110	50	60	40	45
[3] Minimum Circuit Ampacity	Unit+ Electric Heat and (1) 0.33 HP Power Exhaust	7.5 kW	32	32	35	35	16	18	13	14
		15 kW	48	54	52	58	27	29	22	23
		22.5 kW	68	77	72	81	39	40	31	32
		30 kW	87	99	91	103	50	51	40	41

ELECTRICAL ACCESSORIES

Disconnect	7.5 kW	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**
	15 kW	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**
	22.5 kW	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**
	30 kW	**22A24**	**22A24**	**22A24**	**22A23**	**22A23**	**22A23**	**22A23**	**22A23**

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

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

[2] HACR type breaker or fuse.

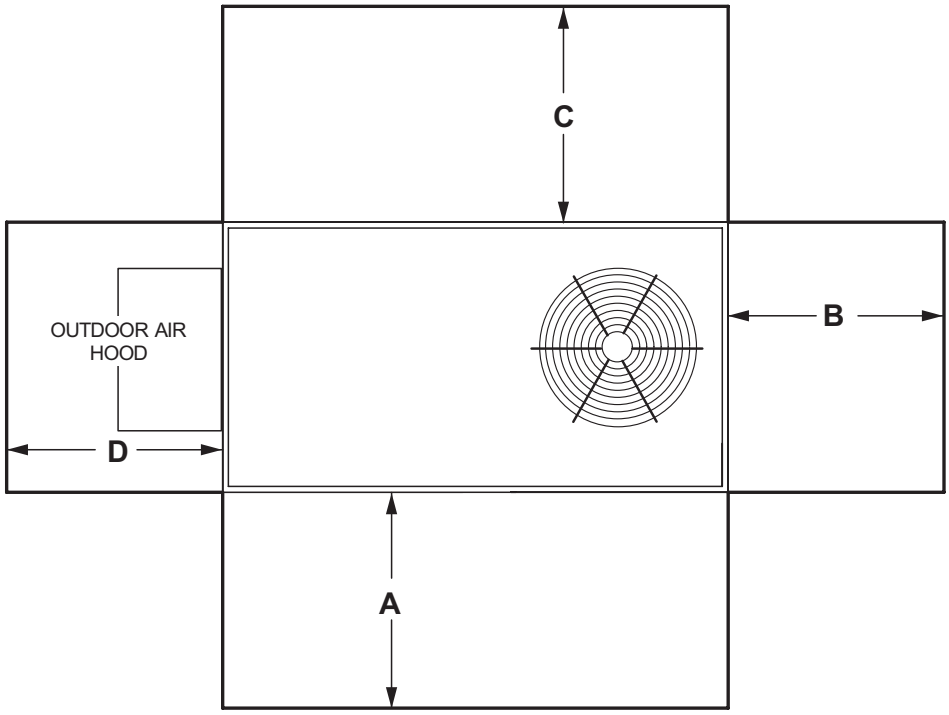
[3] Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

[4] Factory installed circuit breaker not available.

ELECTRIC HEAT CAPACITIES

Input Voltage	7.5 kW			15 kW			22.5 kW			30 kW		
	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
208	1	5.6	19,200	1	11.2	38,200	1	16.9	57,700	1	22.5	76,800
220	1	6.3	21,500	1	12.6	43,000	1	18.9	64,500	1	25.2	86,000
230	1	6.9	23,500	1	13.8	47,000	1	20.7	70,700	1	27.5	93,900
240	1	7.5	25,600	1	15	51,200	1	22.5	76,800	1	30	102,400
440	1	6.3	21,500	1	12.6	43,000	1	18.9	64,500	1	25.2	86,000
460	1	6.9	23,500	1	13.8	47,000	1	20.7	70,700	1	27.5	93,900
480	1	7.5	25,600	1	15	51,200	1	22.5	76,800	1	30	102,400
550	1	6.3	21,500	1	12.6	43,000	1	18.9	64,500	1	25.2	86,000
575	1	6.9	23,500	1	13.8	47,000	1	20.7	70,700	1	27.5	93,900
600	1	7.5	25,600	1	15	51,200	1	22.5	76,800	1	30	102,400

UNIT CLEARANCES



[1] Unit Clearance	A		B		C		D		Top Clearance
	in.	mm	in.	mm	in.	mm	in.	mm	
Service Clearance	36	914	36	914	36	934	36	914	Unobstructed
Minimum Operation Clearance	36	914	36	914	36	914	36	914	

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

[1] Service Clearance - Required for removal of serviceable parts.
Minimum Operation Clearance - Required clearance for proper unit operation.

OUTDOOR SOUND DATA

[1] Unit Model No.	Octave Band Sound Power Levels dBA, re 10^{-12} Watts Center Frequency - Hz							[1] Sound Rating Number dBA
	125	250	500	1000	2000	4000	8000	
036, 048	63	66	70	71	68	62	53	75
060, 072, 074	67	72	77	76	73	68	61	82

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

[1] Sound Rating Number according to AHRI Standard 270-95 (includes pure tone penalty). Sound Rating Number is the overall A-Weighted Sound Power Level, (Lwa), dBA (100 Hz to 10,000 Hz).

WEIGHT DATA — UNIT

Model Number	Outdoor Coil	Net		Shipping		Outdoor Coil	Net		Shipping	
		lbs.	kg	lbs.	kg		lbs.	kg	lbs.	kg
036 Base Unit	Environ™	513	233	574	260	Fin/Tube	532	241	593	269
036 Max. Unit	Environ™	723	328	784	356	Fin/Tube	742	337	803	364
048 Base Unit	Environ™	529	240	590	268	Fin/Tube	562	255	623	283
048 Max. Unit	Environ™	723	328	803	364	Fin/Tube	775	351	836	379
060 Base Unit	Environ™	607	275	668	303	Fin/Tube	649	294	710	322
060 Max. Unit	Environ™	844	383	905	410	Fin/Tube	886	402	947	430
072 Base Unit	Environ™	684	310	745	338	Fin/Tube	726	329	787	357
072 Max. Unit	Environ™	891	404	952	432	Fin/Tube	933	423	994	451
074 Base Unit	Environ™	684	310	745	338	Fin/Tube	726	329	787	357
074 Max. Unit	Environ™	891	404	952	432	Fin/Tube	933	423	994	451

WEIGHT DATA — OPTIONS / ACCESSORIES

		Shipping Weight	
		lbs.	kg
ECONOMIZER / OUTDOOR AIR / EXHAUST			
Economizer			
Economizer, Includes Combination Outdoor Air Hood and Barometric Relief Dampers		131	59
Outdoor Air Dampers			
Motorized		40	18
Manual		30	14
Power Exhaust			
Standard Static		35	17
ELECTRIC HEAT			
	7.5 kW	31	14
	15 kW	31	14
	22.5 kW	35	16
	30 kW	35	16
PACKAGING			
LTL Packaging (less than truck load)		60	27
ROOF CURBS			
Hybrid Roof Curbs, Downflow			
8 in. height	C1CURB70A-1	50	23
14 in. height	C1CURB71A-1	70	32
18 in. height	C1CURB72A-1	80	36
24 in. height	C1CURB73A-1	100	45
Adjustable Pitch Curb, Downflow			
14 in. height		113	51
CEILING DIFFUSERS			
Step-Down	RTD9-65S	80	36
	RTD11-95S	118	54
Flush	FD9-65S	80	36
	FD11-95S	118	54
Transitions	T1TRAN10AN1	22	10
	T1TRAN20N-1	21	10
HUMIDITROL® DEHUMIDIFICATION SYSTEM			
Humiditrol Dehumidification Option (Net Weight)		27	12

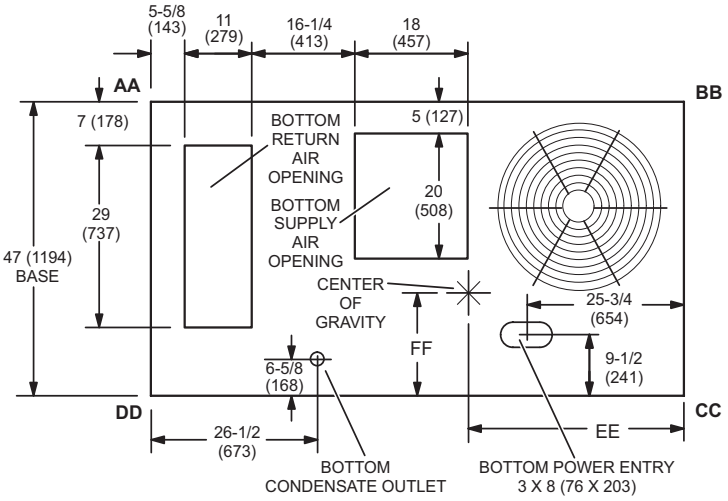
DIMENSIONS — UNIT

CORNER WEIGHTS / CENTER OF GRAVITY

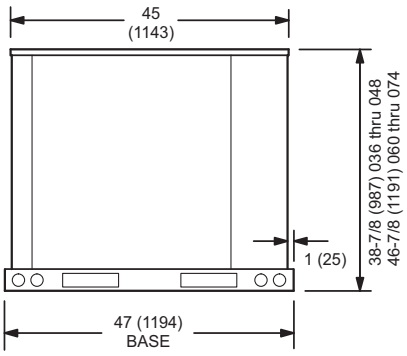
Model No.	AA		BB		CC		DD		EE		FF	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm
LCH036 Base Unit	92	42	112	51	180	82	148	67	38.5	978	18	457
LCH036 Max. Unit	133	61	151	69	243	110	215	98	40	1016	18	457
LCH048 Base Unit	97	44	118	54	190	87	157	71	38.5	978	18	457
LCH048 Max. Unit	139	63	158	72	254	115	224	102	40	1016	18	457
LCH060 Base Unit	112	51	136	62	219	100	181	82	38.5	978	18	457
LCH060 Max. Unit	159	72	180	82	290	132	257	117	40	1016	18	457
LCH072 Base Unit	126	57	152	69	246	112	202	92	38.5	978	18	457
LCH072 Max. Unit	168	76	190	86	306	139	270	123	40	1016	18	457
LCH074 Base Unit	126	57	152	69	246	112	202	92	38.5	978	18	457
LCH074 Max Unit	168	76	190	86	306	139	270	123	40	1016	18	457

Base Unit - The unit with NO INTERNAL OPTIONS.

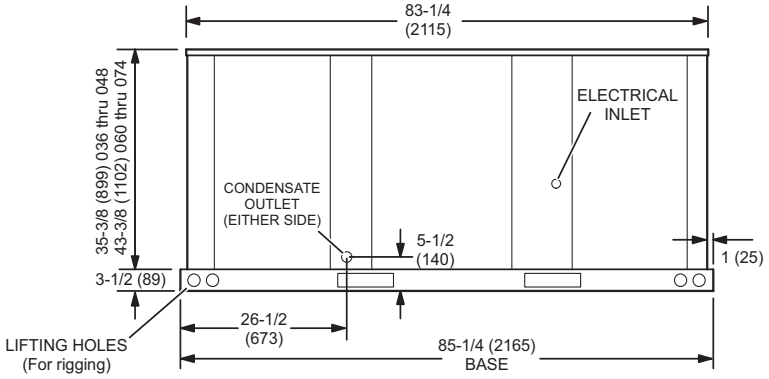
Max. Unit - The unit with ALL INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit or high static power exhaust.



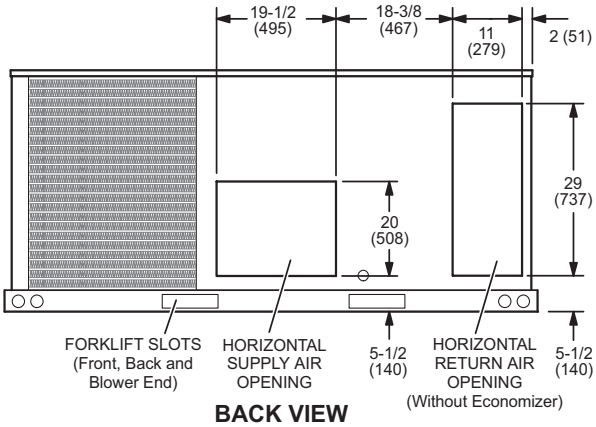
TOP VIEW (Base)



END VIEW

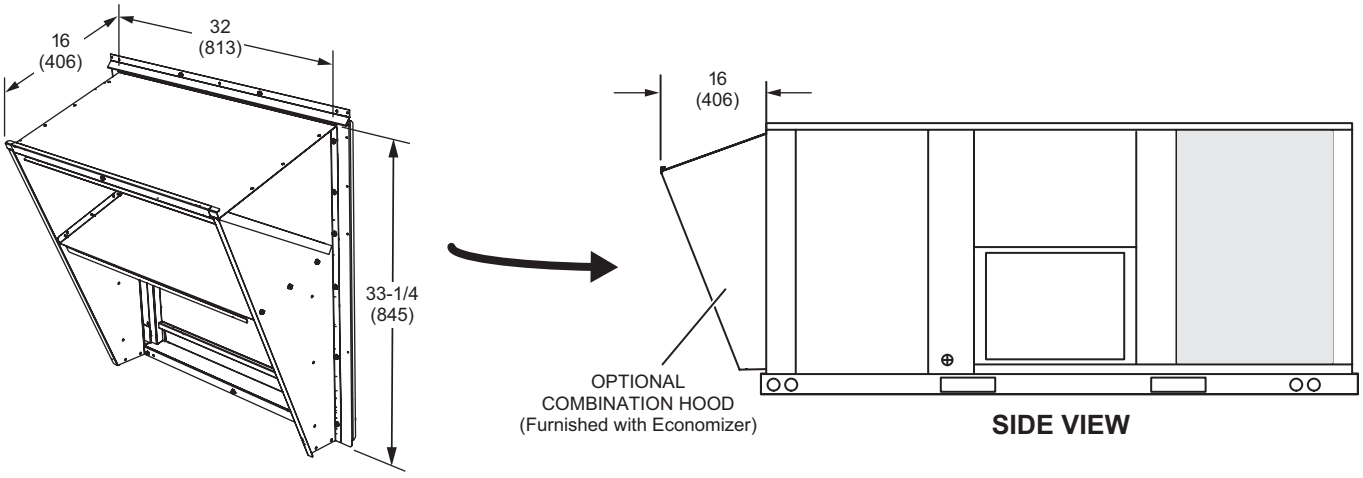


SIDE VIEW



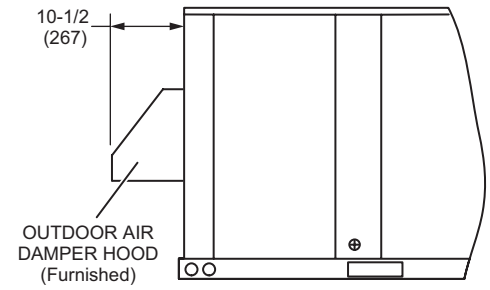
BACK VIEW

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

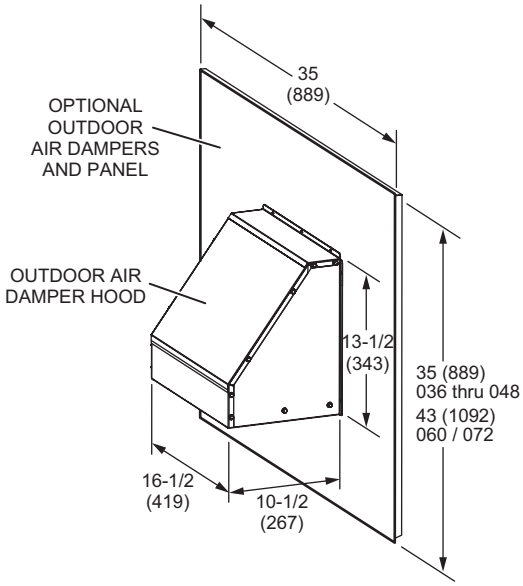


OUTDOOR AIR DAMPER HOOD DETAIL (Downflow or Horizontal Applications)

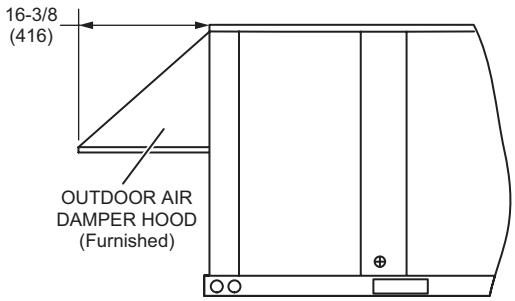
MANUAL OUTDOOR AIR HOOD



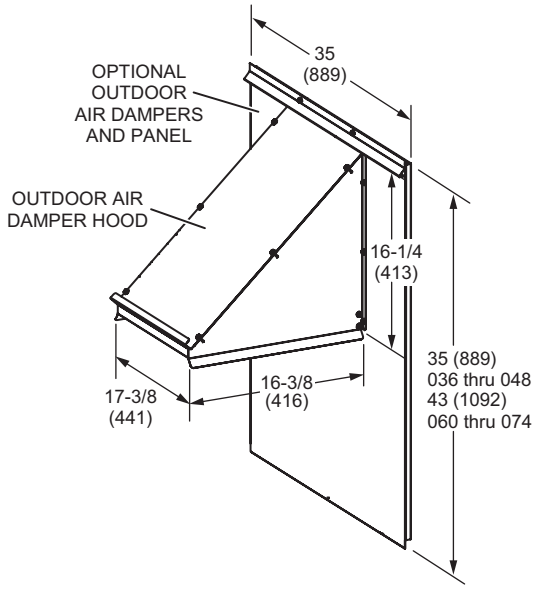
SIDE VIEW



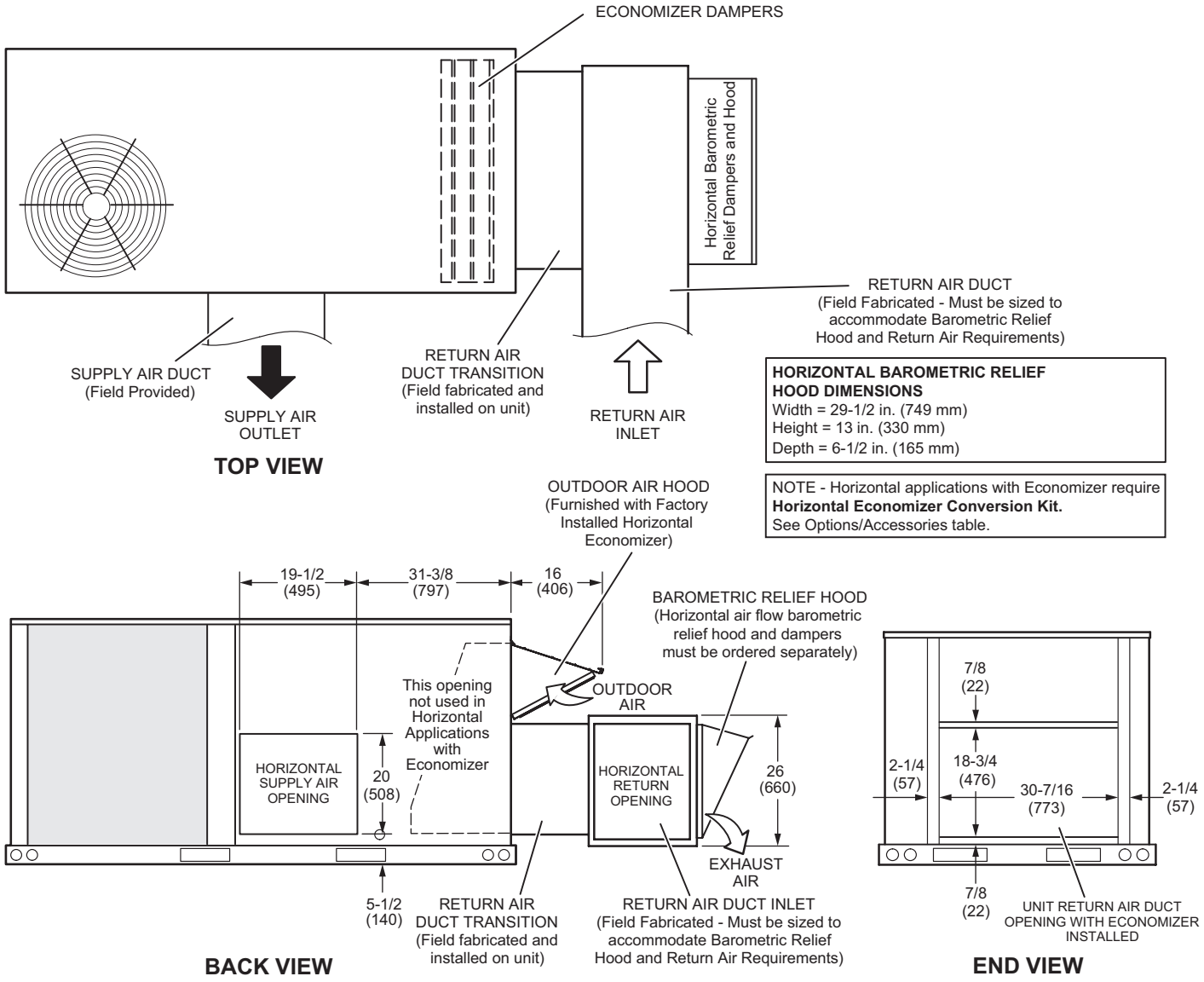
MOTORIZED OUTDOOR AIR HOOD



SIDE VIEW

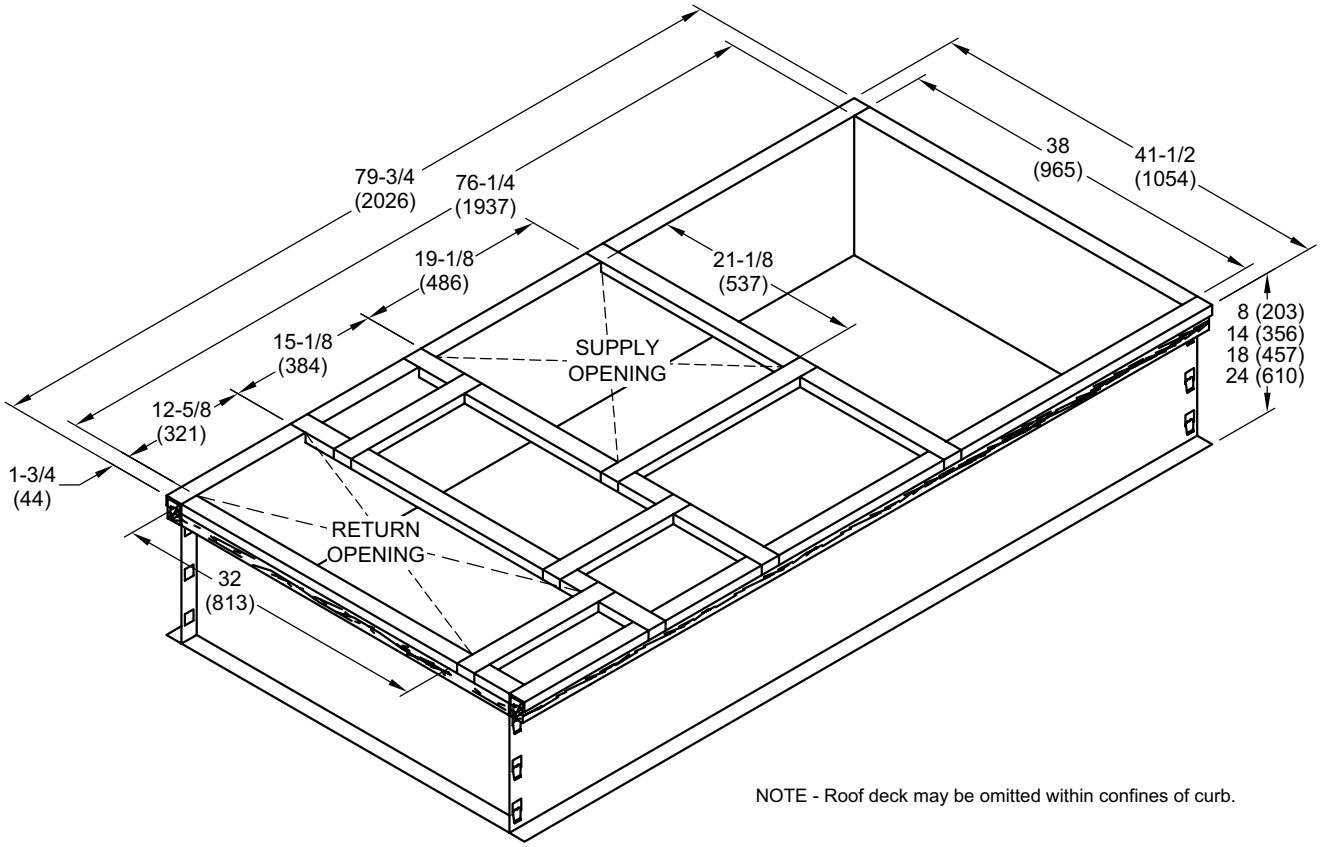


OUTDOOR AIR HOOD DETAIL WITH OPTIONAL ECONOMIZER AND OPTIONAL BAROMETRIC RELIEF DAMPERS WITH HOOD (Horizontal Application)



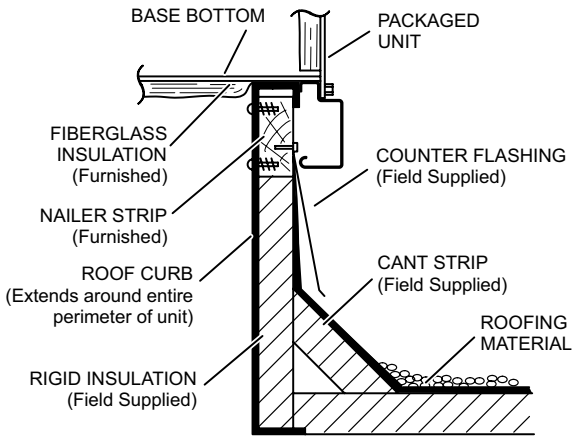
NOTE - Return Air Duct and Transition must be supported

HYBRID ROOF CURBS - DOUBLE DUCT OPENING

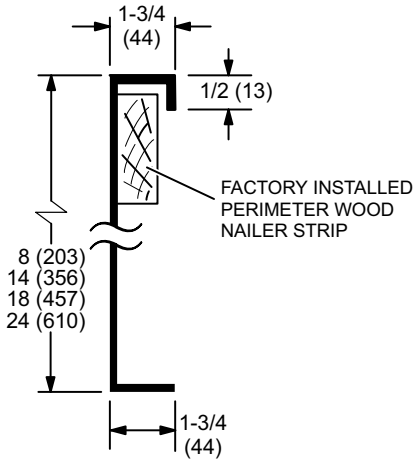


NOTE - Roof deck may be omitted within confines of curb.

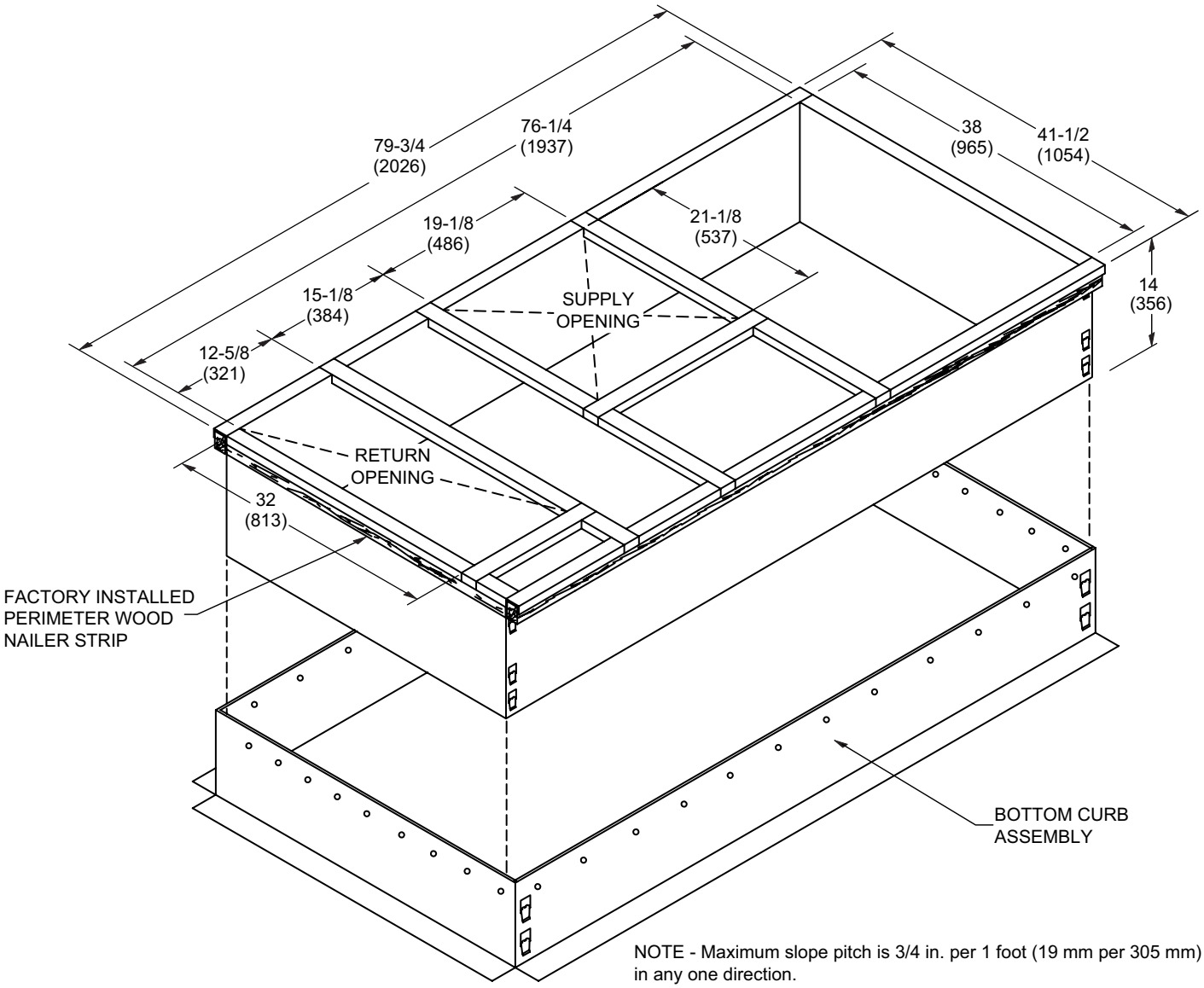
TYPICAL FLASHING DETAIL FOR ROOF CURB



DETAIL ROOF CURB

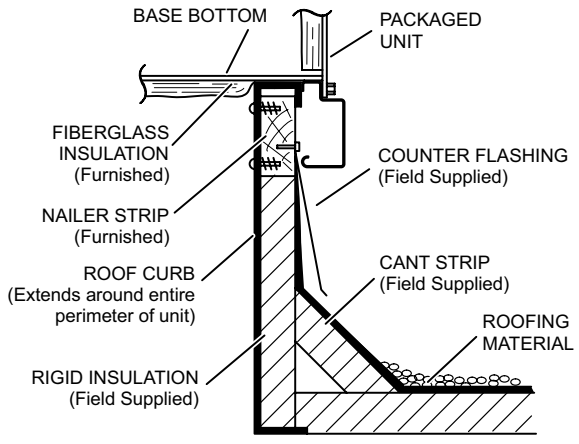


ADJUSTABLE PITCH CURBS - DOUBLE DUCT OPENING

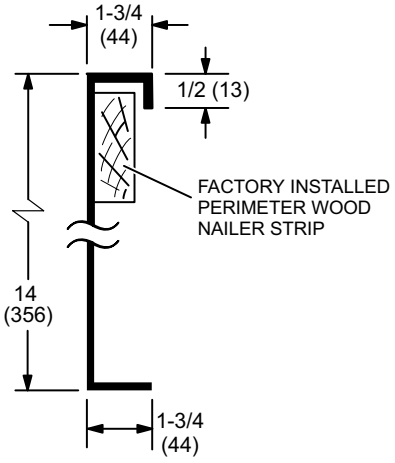


NOTE - Maximum slope pitch is 3/4 in. per 1 foot (19 mm per 305 mm) in any one direction.

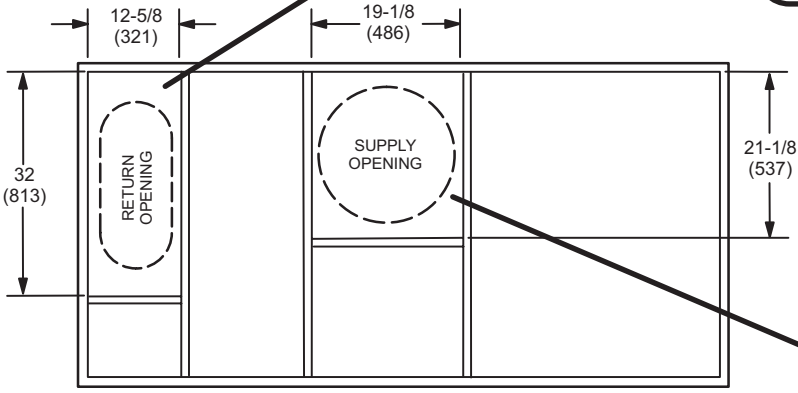
TYPICAL FLASHING DETAIL FOR ROOF CURB



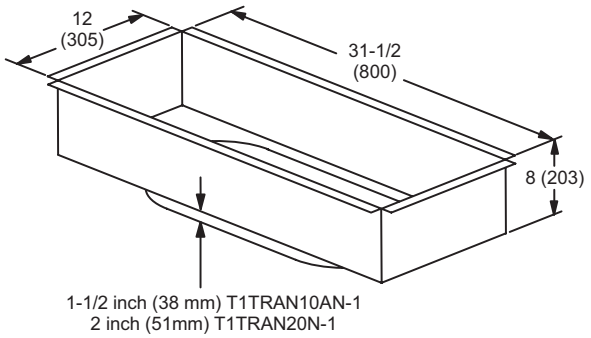
DETAIL ROOF CURB



TRANSITIONS

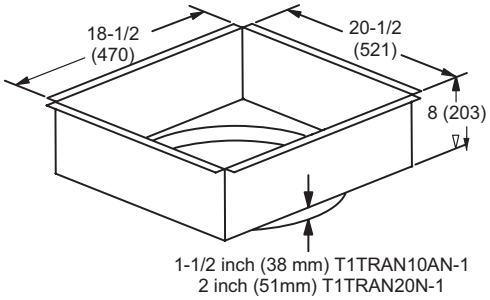


T1TRAN10AN-1 - FOR 18 INCH (457 MM) DUCT
T1TRAN20N-1 - FOR 20 INCH (508 MM) DUCT



RETURN TRANSITION

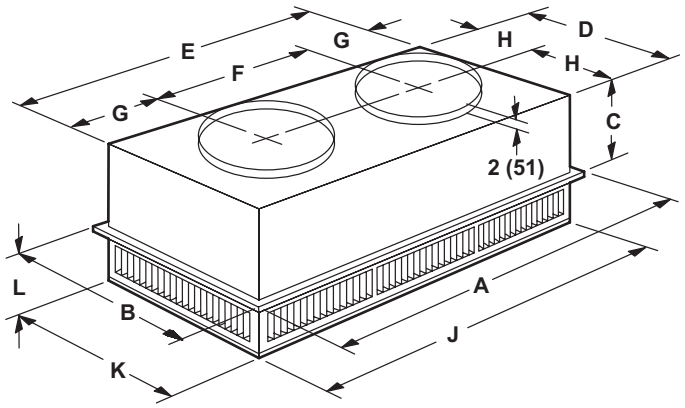
T1TRAN10AN-1 - FOR 18 INCH (457 MM) DUCT
T1TRAN20N-1 - FOR 20 INCH (508 MM) DUCT



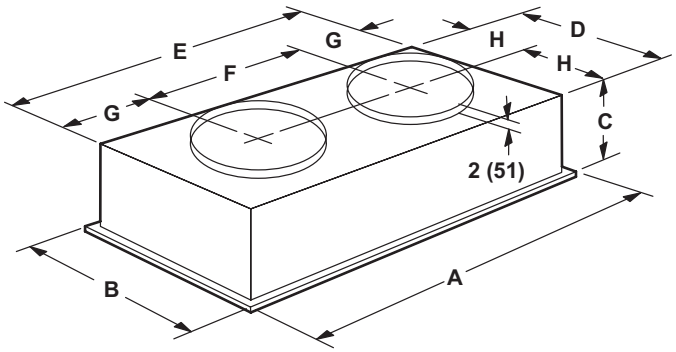
SUPPLY TRANSITION

COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER



FLUSH CEILING DIFFUSER

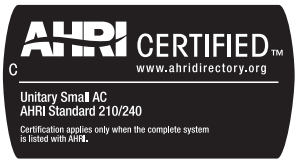


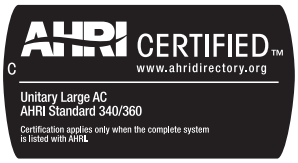
Model Number		RTD9-65S	RTD11-95S
A	in.	47-5/8	47-5/8
	mm	1159	1159
B	in.	23-5/8	29-5/8
	mm	600	752
C	in.	11-3/8	14-3/8
	mm	289	365
D	in.	21-1/2	27-1/2
	mm	546	699
E	in.	45-1/2	45-1/2
	mm	1156	1158
F	in.	22-1/2	22-1/2
	mm	572	572
G	in.	11-1/2	11-1/2
	mm	292	292
H	in.	10-3/4	13-3/4
	mm	273	349
J	in.	45-1/2	45-1/2
	mm	1156	1156
K	in.	21-1/2	27-1/2
	mm	546	699
L	in.	7-1/8	8-1/8
	mm	181	206
Duct Size	in.	18 round	20 round
	mm	457 round	508 round

Model Number		FD9-65S	FD11-95S
A	in.	47-5/8	47-5/8
	mm	1159	1159
B	in.	23-5/8	29-5/8
	mm	600	752
C	in.	13-1/2	16-5/8
	mm	343	422
D	in.	21	27
	mm	533	686
E	in.	45	45
	mm	1143	1143
F	in.	22-1/2	22-1/2
	mm	572	572
G	in.	11-1/4	11-1/4
	mm	286	286
H	in.	10-1/2	13-1/2
	mm	267	343
Duct Size	in.	18 round	20 round
	mm	457 round	508 round

REVISIONS

Sections	Description of Change
Options/Accessories	Added step-down transformers for UVC lights. **Catalog numbers revised for:** Blower Proving Switch Condensate Drain Trap Discharge Air Temperature Switch Disconnects Economizers Electric Heat Drain Pan Overflow Switch Gravity Exhaust Dampers Power Exhaust Single Enthalpy Smoke Detectors





Visit us at www.lennox.com
For the latest technical information, www.lennoxcommercial.com
Contact us at 1-800-4-LENNOX