PACKAGED ELECTRIC / ELECTRIC



LCH Energence[®] Rooftop Units 60 Hz

COMMERCIAL PRODUCT SPECIFICATIONS

Bulletin No. 210541 March 2021 Supersedes November 2019













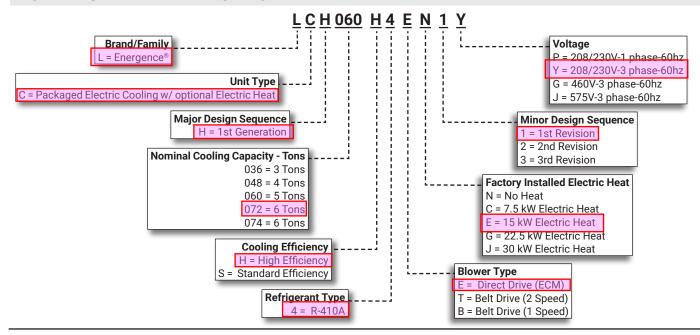




ASHRAE 90.1 COMPLIANT

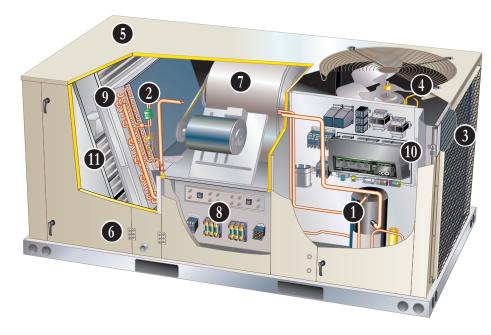
3 to 6 Tons
Net Cooling Capacity - 34,800 to 72,000 Btuh
Optional Electric Heat - 7.5 to 30 kW

MODEL NUMBER IDENTIFICATION



FEATURE HIGHLIGHTS

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

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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 buildup 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 inbetween 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

FEATURES AND BENEFITS

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

Variable Speed Outdoor Coil Fan Motor

- · Variable speed (ECM) fan motor for energy efficient MSAV® (Multi-Stage Air Volume) operation and guiet 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 heavygauge 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
- · 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.

FEATURES AND BENEFITS

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.

FEATURES AND BENEFITS

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



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 (CO2) Sensors

- · Monitors CO₂ 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 microprocessorbased 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
- 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



- 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

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 CO₂ 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

OPTIONS / ACCESSORIES

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 (CO₂ 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 <u>field</u> installed with a <u>factory</u> 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

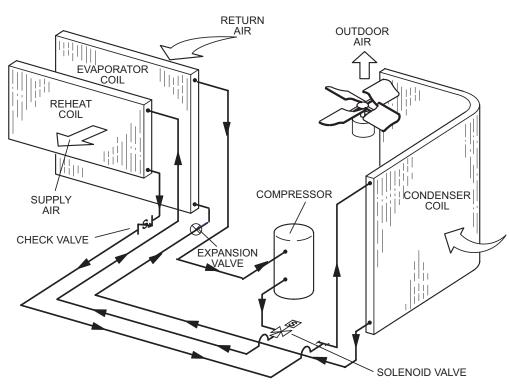
Options/Accessories

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

Description		Catalog No.
ComfortSense® 8500 Commercial 7 Day Programmable T	hermostat	
CS8500 7-Day Thermostat	No CO₂ Sensing	17G75
	With CO₂ 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 a	and LCS-5030 Wired Room Sensor	
Twisted pair 100% shielded communication cable, Red and E	Black 500 ft. box	27M19
22 AWG, yellow jacket, rated at 75°C, 300V, Plenum rated Insulation - Low smoke PVC, NEC, CMP	1000 ft. box	94L63
Insulation - Low Smoke F VO, NEO, Civir	2500 ft. roll	68M25
ComfortSense® 7500 Commercial 7-Day Programmable T	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

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

¹Unit 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

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 <u>Does Not</u> 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)

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.

<u>DIRECT DRIVE AND BELT DRIVE SYSTEM OPERATION (3 THROUGH 5 TONS AND 6 TON 074 MODELS)</u> (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 deenergized

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 <u>Does Not</u> 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

Item		Catalog			lodel N		
		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
	coil (replaces Environ™ Coil System)	Factory	0	0	0	0	0
Drain Pan Overflow Switch		21Z07	OX	OX	OX	OX	OX
Efficiency	Standard	Factory	0	0	0		
	High	Factory	0	0	0	0	0
Service Valves (not for Environ™ Coil	System or Humiditrol® Dehumidification Option)	Factory	0	0	0	0	0
BLOWER - SUPPLY AIR							
Motors	Direct Drive - 0.50 hp	Factory	0				
	Direct Drive - 0.75 hp	Factory		0			
	Direct Drive - 1 hp	Factory			0		
	Belt Drive75 hp (2 Speed)	Factory	0	0			
	Belt Drive - 1 hp (2 Speed)	Factory	0		0		0
	Belt Drive - 2 hp (2 Speed)	Factory		0	0		0
	Belt Drive - 1 hp Standard Efficiency	Factory				0	
	Belt Drive - 2 hp Standard Efficiency	Factory				0	
Drive Kits	Kit A0 - 673-1010 rpm	Factory	0				
See Blower Data	Kit A02 - 745-1117 rpm	Factory		0			
Tables for selection	Kit A03 - 833-1250 rpm	Factory			0		
	Kit A05 - 897-1346 rpm	Factory	0				
	Kit A06 - 1071-1429 rpm	Factory		0			
	Kit A07 - 1212-1548 rpm	Factory			0		
	Kit AA01 - 522-784 rpm	Factory				0	0
	Kit AA02 - 632-875 rpm	Factory				0	0
	Kit AA03 - 798-1105 rpm	Factory				0	0
	Blower Belt Auto-Tensioner	Factory	0	0	0	0	0
CABINET							
Combination Coil/Hail Guards		13R98	Х	Х			
		13T03			Χ	Χ	Х
Corrosion Protection (indoor coil / ou	itdoor coil)	Factory	0	0	0	0	0
CONTROLS							
Blower Proving Switch		21Z10	OX	OX	OX	OX	OX
Commercial Controls	CPC Einstein Integration	Factory	0	0	0	0	0
	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	0	0	0	0	0
	L Connection® Building Automation System		Х	Х	Χ	Х	Х
Dirty Filter Switch		53W66	OX	OX	OX	OX	OX
General Purpose Control Kit		13J78	Х	Х	Х	Х	Х
Fresh Air Tempering		21Z08	OX	OX	OX	OX	OX
¹ SmartAirflow™ (Supply and Ventila	tion Airflow Control)	Factory	0	0	0		
Smoke Detector - Supply or Return sensor)		21Z11	OX	OX	OX	OX	OX
Smoke Detector - Supply and Return	(Power board and two	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.

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X = Field Installed.

OPTIONS / ACCESSO		Catalog		Unit N	lodel N	umber	
Item		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	0	0	0	0	0
	460V - 3 phase	Factory	0	0	0	0	0
	575V - 3 phase	Factory	0	0	0	0	0
HACR Circuit Breakers		Factory	0	0	0	0	0
Disconnect Switch	80 amp	20W21	OX	OX			
(See Electrical / Electric Heat	150 amp	20W22		OX			
Tables	80 amp	22A23			OX	OX	OX
for selection)	150 amp	22A24			OX	OX	OX
² Short-Circuit Current Rating	(SCCR) of 100kA (includes Phase/Voltage Detection)	Factory	0	0	0	0	0
GFI Service	15 amp non-powered, field-wired (208/230V, 460V only)	74M70	OX	OX	OX	OX	OX
Outlets	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 Pl	hase Models Only	Factory	0	0	0	0	0
ELECTRIC HEAT							
7.5 kW	208/230V-1ph	46W28	ОХ	OX	OX		
7.0 KW	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	ОХ	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	ОХ	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 Rectif	ier) Electric Heat Control	Factory	0	0	0	0	0
Thermostat (required)		Y9682	Х	Х	Χ	Х	Χ
Duct Sensor (required)		Y9683	X	X	X	Х	Χ

¹ 208/230-1ph not available on belt drive units.

² Disconnect Switch not available with higher SCCR option.

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		Catalog		Unit M	lodel N	umber	
Item		Number	036	048	060	072	074
ECONOMIZER							
High Performance Economizer With Outdoor Air Hood (Approved for California Title 24 Building Standards /)					
High Performance Economizer - Includes Barometric Reli Dampers and Combination Hood	ef	20H48	ОХ	OX	ОХ	OX	OX
Economizer Accessories							
Horizontal Economizer Conversion Kit		17W45	Х	Х	Х	Х	Х
Economizer Controls							
Differential Enthalpy (Not for Title 24)	Order 2	21Z09	OX	OX	OX	OX	OX
Sensible Control	Sensor is Furnished	Factory	0	0	0	0	0
Single Enthalpy (Not for Title 24)		21Z09	OX	OX	OX	OX	OX
Global Control	Sensor Field Provided	Factory	0	0	0	0	0
Building Pressure Control		13J77	Χ	Χ	Χ	Χ	Χ
POWER EXHAUST FAN (DOWNFLOW ONLY)							
Standard Static	208/230V-1 or 3ph	21Z13	OX	OX	OX	OX	OX
NOTE - Factory or Field installed Power	460V-3ph	21Z14	OX	OX	OX	OX	OX
Exhaust Fan requires "Barometric Relief Dampers for Power Exhaust Kit" for field installation. See below.	575V-3ph	21Z15	OX	OX	OX	OX	OX
BAROMETRIC RELIEF							
¹ Barometric Relief Dampers for Power Exhaust Kit		21Z21	Χ	Х	Χ	Χ	Х
² Horizontal Barometric Relief Dampers With Exhaust Ho	bc	19F01	Х	Х	Χ	Х	Х
OUTDOOR AIR							
Outdoor Air Dampers With Outdoor Air Hood							
Motorized		15D17	OX	ОХ	OX	ОХ	OX
Manual		15D18	OX	OX	OX	OX	OX
HUMIDITROL® CONDENSER REHEAT OPTION							
Humiditrol Dehumidification Option		Factory	0	0	0	0	0
Humidity Sensor Kit, Remote mounted (required)		17M50	Х	Х	Х	Х	Х

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.

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Item		Catalog		Unit N	lodel N	umber	
iteiii		Number	036	048	060	072	074
INDOOR AIR QUALITY							
Air Filters							
Healthy Climate® High	MERV 8 (16 x 20 x 2 in.)	54W20	OX	OX			
Efficiency Air Filters Order 4 per unit	MERV 13 (16 x 20 x 2 in.)	52W37	OX	OX			
Order i per dilit	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	16 x 20 x 2 in. (Order 4)	39W09	Χ	Х			
Metal Mesh Frame (includes non-pleated filter media)	20 x 20 x 2 in. (Order 4)	44N60			Х	Х	X
Indoor Air Quality (CO₂) Sensors							
Sensor - Wall-mount, off-white plastic cover	with LCD display	77N39	Х	Х	Χ	Х	Х
Sensor - Wall-mount, off-white plastic cover	, no display	87N53	Х	Х	Х	Х	Х
Sensor - Black plastic case with LCD displa	y, rated for plenum mounting	87N52	Х	Х	Х	Х	Х
Sensor - Wall-mount, black plastic case, no	display, rated for plenum mounting	87N54	Х	Х	Х	Х	Х
CO ₂ Sensor Duct Mounting Kit - for downflo	w applications	85L43	Х	Х	Х	Х	Х
Aspiration Box - for duct mounting non-plen sensors (87N53 or 77N39)	um rated CO ₂	90N43	Х	Х	X	Х	Х
UVC GERMICIDAL LAMPS							
¹ Healthy Climate [®] UVC Light Kit (110/230V	-1ph)	21A92	Х	Х	Х	Х	Х
Step-Down Transformers	460V primary, 230V secondary	10H20	Х	Х	Χ	Χ	Х
	575V primary, 230V secondary	10H21	Χ	Х	Χ	Х	Χ
ROOF CURBS							
Hybrid Roof Curbs, Downflow							
8 in. height		11F50	Х	Χ	Χ	Χ	Х
14 in. height		11F51	Χ	Х	Χ	Χ	Х
18 in. height		11F52	Х	Х	Χ	Х	Х
24 in. height		11F53	Χ	Χ	Χ	Χ	Χ
Transition Curb							
Matches Energence® 036-074 Units to existing	ng L Series [®] Curbs	20W06	Χ	X	Χ	Х	Χ
CEILING DIFFUSERS							
Step-Down - Order one	RTD9-65S	13K60	Х	Х	Х		
	RTD11-95S	13K61				Х	Χ
Flush - Order one	FD9-65S	13K55	Х	Х	Х		
	FD11-95S	13K56				Х	Х
Transitions (Supply and Return) - Order one	T1TRAN10AN1	17W53	Х	Х	Х		
							Х

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.

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SPECIFICA	TIONS			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	Gross Cooling Capacity - Btuh	36,600	50,100	61,600
Performance	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	Refrigerant Type	R-410A	R-410A	R-410A
Charge	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 S	System With Humiditrol® Dehumidification Option	5 lbs. 2 oz.	6 lbs. 8 oz.	8 lbs. 0 oz.
Conventional Fir	n/Tube With Humiditrol® Dehumidification Option	9 lbs. 3 oz.	12 lbs. 4 oz.	16 lbs. 0 oz.
Electric Heat Av	railable - See Page 18	7.5 and 15 kW	7.5 and 15 kW	7.5, 15 and 22.5 kW
Compressor Typ	pe (one per unit)	Two-Stage Scroll	Two-Stage Scroll	Two-Stage Scroll
Outdoor Coil	Net face area (total) - sq. ft.	11.70 (15.60)	14.50 (15.60)	17.80 (19.30)
Environ™	Tube diameter - in.	0.71 (3/8)	0.71 (3/8)	0.71 (3/8)
(Fin/Tube)	Number of rows	1 (1.5)	1 (2)	1 (2)
	Fins per inch	20 (20)	20 (20)	20 (20)
Outdoor Coil	Motor - (No.) horsepower	(1) 1/3 (ECM)	(1) 1/3 (ECM)	(1) 1/3 (ECM)
Fans	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	Net face area (total) - sq. ft.	7.78	7.78	9.72
Coil	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 Thermo	static Expansion Valve,	removable power head
³ Indoor	Nominal motor HP	0.50 (ECM)	0.75 (ECM)	1 (ECM)
Blower	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 2	C 20 X 2	(4) 20 x 20 x 2
Electrical chara	cteristics		08/230V - 60 hz - 1 pha /, 460V, or 575V - 60 h	

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.

SPECIFICA	ATIONS					ı	BELT DRIVE			
General Data	Nomina	al Tonnage	3 Ton	4 Ton	5 Ton	6 Ton	6 Ton			
	Mod	lel Number	LCH036S4T	LCH048S4T	LCH060S4T	LCH072H4B	LCH074H4T			
	Effic	iency Type	Standard	Standard	Standard	High	High			
	BI	lower Type	Two Speed	Two Speed	Two Speed	Single Speed	Two Speed			
			Belt Drive	Belt Drive	Belt Drive	Belt Drive	Belt Drive			
Cooling	Gross Cooling Cap	•	35,800	49,100	61,600	73,500	72,000			
Performance	Net Cooling Capa	-	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 Po	ower - 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	Refrig	erant Type	R-410A	R-410A	R-410A	R-410A	R-410A			
Charge	Environ™ C	oil System	4 lbs. 5 oz.	6 lbs. 4 oz.	8 lbs. 0 oz.	7 lbs. 8 oz.	7 lbs. 2 oz.			
	Conventional Fir	/Tube Coil	8 lbs. 8 oz.	11 lbs. 2 oz.	14 lbs. 0 oz.	13 lbs. 12 oz.	13 lbs. 11oz			
Environ ¹	™ Coil System With I	-lumiditrol®	5 lbs. 2 oz.	6 lbs. 8 oz.	8 lbs. 0 oz.	9 lbs. 0 oz.	8 lbs. 15 oz.			
	ional Fin/Tube With I		9 lbs. 3 oz.	12 lbs. 4 oz.	16 lbs. 0 oz.	15 lbs. 3 oz.	15 lbs. 11oz			
Electric Heat A	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 T	ype (one per unit)		Two-Stage Scroll	Two-Stage Scroll	Two-Stage Scroll	Scroll	Two-Stage Scroll			
Outdoor Coil	Net face area (to	tal) - sq. ft.	11.70 (15.60)	14.5 (15.60)	17.80 (19.30)	17.80 (19.30)	17.80 (19.30)			
Environ™	Tube dia	ameter - in.	0.71 (3/8)	0.71 (3/8)	0.71 (3/8)	0.71 (3/8)	0.71 (3/8)			
(Fin/Tube)	Numb	per of rows	1 (1.5)	1 (2)	1 (2)	1 (2)	1 (2)			
	Fir	ns per inch	20 (20)	20 (20)	20 (20)	20 (20)	20 (20)			
Outdoor Coil	Motor - (No.) h	orsepower	(1) 1/6 (PSC)	(1) 1/4 (PSC)	(1) 1/3 (PSC)	(1) 1/3 (PSC)	(1) 1/3 (PSC)			
Fans		Motor rpm	825	825	1075	1075	1075			
	Total Motor In	out - watts	168	230	410	410	375			
	Diameter	- (No.) in.	(1) 24	(1) 24	(1) 24	(1) 24	(1) 24			
	Numbe	r of blades	3	3	3	3	3			
	Total air vo	lume - cfm	3000	3300	4800	4800	4800			
Indoor	Net face area (to	tal) - sq. ft.	7.78	7.78	9.72	9.72	9.72			
Coil	Tube dia	ameter - in.	3/8	3/8	3/8	3/8	3/8			
	Numb	per of rows	3	4	4	4	4			
	Fir	ns per inch	14	14	14	14	14			
Drain con	nection (Number) an		(1) 1 NPT	(1) 1 NPT	(1) 1 NPT	(1) 1 NPT	(1) 1 NPT			
	Expansion of				tic Expansion Va	lve, removable pov	wer head			
⁵ Indoor		of Speeds	2	2	2	1	2			
Blower	Nominal	Low static		0.75	1	1	1			
and Drive	motor HP	High static		2	2	2	2			
Selection	Maximum	Low static		0.86	1.15	1.15	1.15			
	usable motor output (US Only)	High static	1.15	2.3	2.3	2.3	2.3			
	Motor - Drive	kit number	A01	A02	A03	AA01	AA01			
			low 449-673	low 497-673	low 555-833	522 - 784 rpm	522-784 rpm			
			high 673-1010	high 745-1117	high 833-1250	AA02	AA02			
			A05	A06	A07	632 - 875 rpm	632-875 rpm			
			low 598-897	low 714-953	low 808-1032	AA03	AA03			
			high 897-1346	high 1071-1429	high 1212-1548	798 - 1105 rpm	798-1105 rpm			
	el nominal diameter x		(1) 10 X 10	(1) 10 X 10	(1) 10 X 10	(1) 15 X 9	(1) 15 X 9			
Filters		ype of filter								
	Number an	ıd size - in.	(4) 16 X		. ,	X 20 X 2				
Electrical char	acteristics			208/230V, 4	60V, or 575V - 60					

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.

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)

								Out	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering	Total		(65°F					75°F				3	35°F					95°F		
Wet Bulb	Air	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ible To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S	(T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	Input	D	ry Bul	b	Сар.	Input		ry Bulk	b
poruturo	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

F . 4							•	Out	door A	ir Tem	peratu	re Enter	ing Out	loor C	oil						
Entering Wet	Total			85°F					95°F				1	05°F					115°F		
Bulb	Air	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S/	(T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	tio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	Input	D	ry Bul	b	Сар.	Input		ry Bull	b
po.u.u.	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

								Out	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering	Total		(65°F					75°F					35°F					95°F		
Wet Bulb	Air	Total	Comp.		ble To		Total	Comp.		ible To			Comp.		ble To		l .	Comp.		ible To	
Tem-	Volume	Cool	Motor	_	atio (S		Cool	Motor		atio (S/		Cool	Motor		atio (S/	,	Cool	Motor		atio (S/	
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	Input	D	ry Bul	b	Cap.	Input		ry Bull	b
po. a.a.	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor Co	oil						
Entering	Total		- 1	85°F					95°F				1	05°F					115°F		
Wet Bulb	Air	Total	Comp.		ible To		Total	Comp.		ible To		Total	Comp.		ble To		Total	Comp.		ible To	
Tem-	Volume	Cool	Motor	Ra	atio (S	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	tio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	Input	D	ry Bul	b	Cap.	Input		ry Bull	b
porataro	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
	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
63°F	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
	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
67°F	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
	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
71°F	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

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)

								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering	Total			65°F					75°F					35°F					95°F		
Wet Bulb	Air	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S	(T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input		ry Bull	b
poruturo	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering	Total			85°F					95°F				1	05°F					115°F		
Wet Bulb	Air	Total	Comp.	Sensi	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Сар.	Input	D	ry Bul	b	Сар.	Input		ry Bul	b	Сар.	Input	D	ry Bul	b	Cap.	Input		ry Bull	b
porataro	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

-								Out	tdoor A	ir Tem	peratui	re Enter	ing Outo	loor C	oil						
Entering	Total			65°F					75°F				3	35°F					95°F		
Wet Bulb	Air	Total	Comp.		ible To		Total	Comp.		ible To		Total	Comp.		ble To		1	Comp.		ible To	
Tem-	Volume		Motor		atio (S		Cool	Motor		atio (S/		Cool	Motor		tio (S/		Cool	Motor		atio (S/	
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input		ry Bull	b
porataro	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

F								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	door C	oil						
Entering	Total			85°F					95°F				1	05°F					115°F		
Wet Bulb	Air	Total	Comp.		ible To		Total	Comp.		ible To		Total	Comp.		ible To		Total	Comp.		ible To	
Tem-	Volume	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	Τ)
perature		Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input		ry Bull	b
porataro	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
	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
63°F	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
	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
67°F	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
	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
71°F	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

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)

								Ou	tdoor A	ir Tem	peratui	re Enter	ing Outo	loor C	lic						
Entering	Total			65°F					75°F					35°F					95°F		
Wet Bulb	Air	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	R	atio (S	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	Input	D	ry Bul	b	Cap.	Input		Dry Bull	b
poruturo	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

								Ou	tdoor A	ir Tem	peratui	re Enter	ing Outo	loor C	oil						
Entering	Total		-	85°F					95°F				1	05°F					115°F		
Wet Bulb	Air	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Сар.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	Input		ry Bul	b	Cap.	Input		ry Bull	b
porataro	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

								Out	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering	Total		(55°F					75°F					85°F					95°F		
Wet Bulb	Air	Total	Comp.	Sensi	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	Input		ry Bul	b	Cap.	Input		ry Bull	b
poruturo	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
	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
63°F	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	8.0	1	1
	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
67°F	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
	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
71°F	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)

						•		Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering	Total			85°F					95°F				1	05°F					115°F		
Wet Bulb	Air	Total	Comp.	Sensi	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bull	b
porataro	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
	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
63°F	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
	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
67°F	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
	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
71°F	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

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

								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering	Total			85°F					95°F				1	05°F					115°F		
Wet Bulb	Air	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S	(T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input		ry Bul	b	Сар.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input		ry Bull	b
poruturo	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

F								Out	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering	Total		(65°F					75°F					35°F					95°F		
Wet Bulb	Air	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bull)
poruturo	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
	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
63°F	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	8.0	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
	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
67°F	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	8.0	0.97	55.6	3.34	0.64	0.82	0.99
	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
71°F	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	8.0

6 TON HIGH EFFICIENCY LCH074H4 (2ND STAGE)

								Out	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering	Total			85°F					95°F				1	05°F					115°F		
Wet Bulb	Air	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	tio (S	T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	Input	D	ry Bul	b	Cap.	Input		ry Bull	b
perature	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
	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
63°F	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
	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
67°F	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
	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
71°F	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								Ou	tdoor A	ir Tem	peratui	re Enter	ing Outo	loor C	oil						
Wet	Total			65°F					75°F					85°F					95°F		
	Air Vol-	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ible To	Total	Total	Comp.	Sens	ible To	Total
Bulb	ume	Cool	Motor	Ra	atio (S	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
Tem-		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	Input		ry Bul	b	Cap.	Input		ry Bull	b
perature	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
	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
63°F	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
	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
67°F	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
	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
71°F	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								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Wet	Total		(65°F					75°F					35°F					95°F		
	Air Vol-	Total	Comp.		ible To		Total	Comp.		ible To		Total	Comp.		ible To		Total	Comp.		ible To	
Bulb Tem-	ume	Cool	Motor	Ra	atio (S	T)	Cool	Motor		atio (S/		Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bull	b
perature	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
	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
63°F	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
	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
67°F	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
	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
71°F	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								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Wet	Total			65°F					75°F					85°F					95°F		
	Air Vol-	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ible To	Total	Total	Comp.	Sens	ible To	Total
Bulb	ume	Cool	Motor	Ra	atio (S	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S	/T)	Cool	Motor	R	atio (S/	T)
Tem-		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input	D	ry Bul	b	Cap.	Input	[Dry Bulk	b
perature	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
	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
63°F	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
	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
67°F	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
	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
71°F	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								Out	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	lic						
Wet	Total		(65°F					75°F					85°F					95°F		
Bulb	Air Vol- ume	Total Cool	Comp. Motor		ible To atio (S/		Total Cool	Comp. Motor		ible To atio (S/		Total Cool	Comp. Motor		ble To		Total Cool	Comp. Motor		ible To atio (S/	
Tem-		Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input	D	ry Bul	b	Сар.	Input		ry Bull	b
perature	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
	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
63°F	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
	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
67°F	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
	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
71°F	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

								Out	tdoor A	ir Tem	peratu	re Enter	ing Outo	door C	oil						
Entering Wet	Total		-	65°F					75°F		•			85°F					95°F		
	Air Vol-	Total	Comp.	Sensi	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ble To	Total	Total	Comp.	Sens	ible To	Total
Bulb	ume	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
Tem-		Cap.	Input		ry Bul	b	Сар.	Input		ry Bul	b	Сар.	Input	D	ry Bul	b	Cap.	Input		ry Bull	b
perature	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
	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
63°F	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
	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
67°F	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
	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
71°F	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 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		20%			30%			40%		
Press. in. w.g.	Cfm	Watts RPM	RPM	Cfm	Watts RPM	RPM	Cfm	Watts RPM	RPM	
0	785	38	407	696	89	468	1152	86	529	
0.1	720	44	475	919	74	522	1117	104	569	
0.2	645	20	220	851	83	593	1056	116	637	
0.3	220	99	620	793	06	651	1016	124	681	
0.4	202	09	829	731	26	712	926	135	746	
0.5	432	65	740	663	105	775	895	145	810	
9.0							855	152	852	
2.0							792	163	916	
0.8							734	173	975	
6.0	:		:	:		:	674	183	1034	

	HORIZONTAL		-		1																						
_ '											Pe	Percentage of Total Motor Torque	age of	Total	Motor	Torqu	е										
		%07			30%			40 %			%09			%09			%02			%08		65	%06		1(100%	
	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm V	Watts	RPM	Cfm \	Watts	RPM	Cfm \	Watts	RPM	Cfm \	Watts	RPM (Cfm M	Watts	RPM	Cfm W	Watts F	RPM
	962	43	372	975	64	447	1155	85	524	1302	126	260	1448	168	265	1566	214	639	1684	260	680 1	1786	323	720	1888	386	761
	602	20	461	606	75	512	1110	101	564	1254	143	613	1398	185	662	1523	231	695	1649	277	729 1	1754	344	, 692	1858 4	411	810
	617	22	553	828	88	591	1040	118	. 629	1204	156	. 664	1368	194	869	1492	243	734	1616	291	771 1	1721	358	808	1826 4	424	845
	503	64	662	747	97	899	992	131	929	1151	172	722	1310	212	292	1442	260	794	1574	308	820 1	1681	374	853 ′	1787 4	440 8	887
	419	69	747	671	107	746	924	146	747	1095	185	782	1266	225	818	1398	275	844	1530	325	870 1	1640	389	899	1749 4	454	927
	323	75	843	289	117	832	857	159	821	1039	198	844	1221	237	867	1359	287	888	1496	337	906	298	403	941	1701 4	470 (973
			:	:	:	:	817	165	871	066	208	006	1162	252	929	1296	306	954	1431	360	979 1	246 4	421	995 /	1662 4	481 1	1010
							747	176	957	933	219	996	1118	262	974	1264	314	286	1410	367 1	1000 1	1523 4	427 1	1016	1636 4	487 1	032
			:		:	:	200	181	1026	988	526	1022	1073	271	1018	1216	327	1035	1359	383 1	1051 1	1469	442 1	1066	1579 5	501 1	1081
				:	:		643	187	1110	829	235	1091	1015	283	1073	1161	341	1087	1307	399	1101 1	1409	456	1118	1510 5	513 1	1136
							592	190	1197	781	241	1154	920	291	1113	1114	352	1130	1258	413 /	1147 1	1355	467	1161	1452 5	520 1	1176
													915	300	1162	1067	362	1171 1219	1219	424	1180 1	1312	473 1	1192	1405 5	522 1	1204
																			1168	437 1	1223 1	1248	480 1	1235	1329 5	523 1	1246

495 | 1207 | 1456 |

436 1190 1355

1173 1511

1115 | 1448

1140 1553

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1.0

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Watts RPM

Cfm

Cfm Watts RPM

Cfm Watts RPM Cfm Watts RPM

Watts RPM Cfm Watts RPM

Cfm

100%

%06

%08

%02

Percentage of Total Motor Torque

%09

20%

1468 274

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											Pel	Percentage	L Jo or	of Total Motor Torque	ofor To	Srdile										
Static		20%		63	30%			40%			20%		9	%09	_	7	%02		80	%08		%06			100%	
Press. in. w.g.	Cfm	Watts	RPM	Cfm W	Watts F	RPM	Cfm V	Watts	RPM	Cfm W	Watts F	RPM	Cfm W	Watts RI	RPM C	Cfm Wa	Watts RPM		Cfm Watts	tts RPM	M Cfm	n Watts	s RPM	Cfm	Watts	RPM
0	1046	77	485 13	1257 1	134	565	1468	191	646 1	1639	271	715 1	1810	351 7	784 19	1960 4	445 837		2109 539	39 890	0 2251	1 674	947	2393	810	1004
0.1	992	85	543	1211 1	145 (619	1430	205 (695 1	1609	285	755 1	1788	365 8	814 19	1937 4	463 87	870 20	2086 561	31 925	5 2227	7 691	977	2367	822	1029
0.2	926	92	612 1	1166 1	154 (, 699	1405	214	727	1580	299	793 1	1755	384 8	859 19	1909 4	482 909		2063 581	31 959	9 2200	0 708	1008	3336	835	1056
0.3	883	101	657 1	1125 1	164	715 /	1367	227	774 1	1551	311	831	1734	396	888 18	1891 4	495 934	 	2048 593	93 980	0 2181	1 719	1028	3 2314	844	1076
0.4	818	111	724 1	1074 1	175	772 ′	1329	240 8	820 1	1515	327 8	875 1	1701	414 9	930 18	1859 5	515 975		2017 617	102	21 2147	7 737	1064	2276	857	1107
0.5	752	121	791 1	1022	187	828	1291	253 8	865 1	1485	339	911 1	1679 4	425 9	957 18	1837 5	529 1003	-	1994 632	32 1049	19 2120	0 749	1090	2245	998	1131
9.0	:	1	1	:	:		1253	265	908	1450	354	952 1	1646 4	442 9	996 18	1809 5	544 1036	_	1972 646	1076	76 2094	4 760	1114	2215	873	1153
0.7	!	!	-	!	:	1	1202	282	965 1	1408	370	999	1613 4	458 10	1034 17	1777 5	560 1071		1941 662	32 1109	9 2063	3 771	1141	2185	879	1174
0.8	:	1	1	:	:		1164	294 1	1006 1	1372	383	1038 1	1580 4	473 10	1070 17	1745 5	574 1104	-	1910 67	676 1138	38 2025	5 781	1171	2139	988	1204
6.0	:	!	-	:	:	:	1126	306 1	1046 1	1337	396	1075 1	1548 4	487 11	1105 17	1714 5	587 1135		1880 687	37 1165	35 1987	7 788	1198	2094	889	1230
1.0	:	1	1	:	:		1081	320 1	1092	1298	410 1	1115 1	1515	500 11	1138 16	1675 5	599 1169	-	1834 699	99 1200	1941	1 794	1227	2048	889	1254
1.1	:	:	-	:		:	:	:		:	:	1	1476	514 11	1174 16	1632 6	609 1201	-	1788 704	1229	29 1896	6 795	1251	2003	886	1274
1.2	:	1	1	1	:	:	:	:	-	-	:	-	:	:	-	1	1	,	1728 702	1256	56 1835	5 790	1277	1942	878	1298
HORIZONTAL	1TAL																									
External											Pel	Percentage		of Total Mo	Motor Torque	ordue										
Static		20%		m	30%		7	40%		~*	20%		9	%09		7	%02		80%	%		%06			100%	
Press. in. w.g.	Cfm	Cfm Watts I	RPM C	Cfm Watts RPM	atts F		Cfm Watts	Vatts F	RPM	Cfm N	Watts	RPM	Cfm W	Watts RI	RPM C	Cfm Watts	atts RPM		Cfm Watts	tts RPM		Cfm Watts	s RPM	Cfm	Watts	RPM
0	1023	78	452 1	1234	131	236	1445	183	621 1	1611	251	688	1776	319 7	754 18	1910 4	400 80	800 20	2043 480	30 846	6 2192	2 613	904	2340	746	963
0.1	970	82	529 1	1192	137	. 969	1414	192	664 1	1586	. 192	722 1	1757	330 7	780 19	1902 4;	427 837		2048 523	23 893	3 2189	9 640	942	2330	758	991
0.2	606	98	590 1	1146	144 (647	1383	. 107	705 1	1553	275	764 1	1723	349 8	824 18	1876 4	444 873		2028 540	10 923	3 2170	629 0	920	2312	779	1018
0.3	829	92	675 1	1084	154	718	1339	213	761 1	1520	287	807 1	1701	361 8	853 18	1853 4	459 90	903 20	2005 557	57 953	3 2138	8 673	1001	2271	789	1049
0.4	772	104	734 1	1032	165	774	1293	226	814 1	1477	304	859 1	1661	382 9	904 18	1818 4	480 94	949 19	1975 57	579 993	3 2098	8 690	1039	2222	802	1084
0.5	688	118	818 9	, 296	178	841	1247	238	864 1	1439	317	902 1	1631	396 9	940 17	1787 49	498 98	986 19	1943 56	599 1032	32 2066	6 704	1069	2189	809	1106
9.0	-:			:			1202	249	910 1	1400	330	944 1	1597	411 9	978 17	1758 5	512 10	1018 19	1920 61	613 1059	59 2035	5 715	1095	2150	817	1132
0.7	:			:	-	-	1146	265	967 1	1355	345	990 1	1565 4	426 10	1014 17	1727 5	527 10	1053 18	1889 629	29 1092	1997	7 726	1125	2105	822	1158
0.8							1085	280 1	1021 1	1302	362 1	1040 1	1520 4	443 10	1060 16	1685 5	544 109	1095 18	1849 64	646 1130	1950	0 737	1160	2051	828	1191
6.0							1029	292 1	1064 1	1255	376 1	1085 1	1481	460 11	1106 16	1643 5	560 1137	\vdash	1805 660	30 1167	1898	8 745	1194	1991	830	1222
1.0							961	308 1	1114 1	1207	389 1	1126 1	1456 4	471 11	1137 16	1601 5	571 11	1173 17	1746 672	72 1209	1836	6 751	1230	1926	829	1251
1.1												1	1416 4	488 11	1185 15	1549 5	581 12	1213 16	1682 67	675 1241	11 1774	4 750	1258	1867	824	1276
1.2	:	:	-	· :	-	:	:	-		:	-	:	-	:	:	-	; ;	15	1570 652	52 1268	1675	5 732	1286	1780	812	1305

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.).

DOWNFLOW	MO	!																								
External											Per	Percentage	ye of T	of Total Motor Torque	tor Tor	enb.										
Static		20%		က	30%			40%		47	20%			%09		%02			80%			%06			100%	
Press. in. w.g.	Cfm	Watts	RPM	Cfm W	Watts F	RPM	Cfm V	Watts F	RPM	Cfm W	Watts R	RPM	Cfm W	Watts RPM	M Cfm	m Watts	ts RPM	1 Cfm	η Watts	s RPM	Cfm	Watts	RPM	Cfm	Watts	RPM
0	1102	92	420 1:	1324	143	510 1	1545	211	601 1	1740	302 6	667 1	1934 3	393 73	734 2096	96 519	797	2258	8 645	860	2396	791	910	2534	938	959
0.1	1038	85	484 13	1284	153	559	1529	221	633 1	1722	315 6	698 1	1914 4	410 76	763 2078	78 535	823	2242	2 660	882	2378	810	934	2514	096	986
0.2	975	94	546 13	1235	165 (611 1	1495	236	677 1	1692	332 7	737 1	1888 4	429 79	798 2057	57 553	851	2225	2 677	902	2363	825	954	2501	973	1003
0.3	911	104	603 1	1192	175 (654 1	1473	245	706 1	1672	343 7	763 1	1871 4	441 82	820 2040	40 566	874	2208	8 692	928	2348	839	974	2488	286	1020
0.4	847	114	657 1	1143	187	702 1	1439	. 697	747 1	1642	3 658	800 1	1845 4	458 85	852 2015	15 585	904	2185	5 712	926	2327	828	1000	2469	1005	1044
0.5	784	124	708 1	1095	198	747 1	1406	273	785 1	1613	374 8	835 1	1819 4	475 88	884 1994	94 600	931	2168	8 726	977	2309	874	1022	2450	1022	1066
9.0				-			1372	285	822 1	1583	388	868 1	1793 4	490 91	915 1969	69 617	959	2145	5 743	1004	2288	890	1046	2431	1037	1087
0.7	:	1	:	:	:		1339	297	856 1	1553 4	401 8	900 1	1767 5	505 944	1945	45 633	1 987	2122	2 760	1029	2267	906	1068	2411	1051	1108
0.8				-			1294	313	899 1	1518 4	416 9	936 1	1741 5	519 973	73 1920	20 647	1013	3 2099	9// 6	1054	2246	920	1090	2392	1064	1127
6.0	:	-	-	:	:		1249	327	937 1	1478 4	432 8	974 1	1706 5	537 10	1010 1891	91 663	1043	3 2076	9 790	1077	2221	934	1113	2366	1078	1150
1.0	:	1	:	;	:		1193	343	980 1	1437 4	446 1	1008 1	1680 5	549 10	1036 1867	929 29	1067	, 2053	3 803	1098	2200	945	1132	2347	1087	1166
1.1	:	1	-	;	:	:	:	:	:	:	-		1649 5	562 10	1066 1834	34 691	1097	2019	9 821	1129	2164	961	1162	2308	1100	1194
1.2	:	1	:	1	:	:	1	1	1	:	:	:	:	;	1	1	:	1984	4 836	1157	2133	971	1184	2282	1106	1211
HORIZONTA	MATAL																									
External											Per	Percentage		of Total Motor Torque	tor Tor	rdue										
		20%		3	30%			40%		4)	%09		9	%09		%0 2	,0		%08			%06			100%	
ess. ess. ess. ess.	Cfm	Watts	RPM	Cfm W	Watts F	RPM (Cfm V	Watts F	RPM	Cfm W	Watts R	RPM	Cfm W	Watts RPM	M Cfm	m Watts	ts RPM	1 Cfm	า Watts	s RPM	Cfm	Watts	RPM	Cfm	Watts	RPM
O	1129	85	418 1	1343	146	512 1	1556	208	606 1	1740	306	679 1	1923 4	405 75	752 2084	84 530	812	2245	5 655	872	2377	807	927	2508	626	982
0.1	1063	88	464 1	1295	154	550 1	1527	220	635 1	1715	318 7	705 1	1903 4	417 77	776 2070	70 546	835	2237	7 675	895	2368	823	948	2498	972	1002
0.2	984	92	534 1	1234	166	607	1483	237	680	1681	335 7	743 1	1878 4	432 8C	807 2046	46 562	863	2214	1 691	920	2347	842	971	2479	993	1023
0.3	917	103	909	1178	179	665 1	1438	255	724 1	1645	351 7	780	1852 4	447 83	836 2018	18 580	894	2183	3 712	952	2321	862	266	2459	1012	1043
tric 4.0	862	112	681 1	1128	192	725 1	1393	272	768 1	1604	370 8	823 1	1814 4	468 87	878 1987	87 598	927	2160) 728	975	2298	881	1021	2435	1034	1067
0.5 Elic	818	124	760 1	1091	. 504	779 1	1364	283	798 1	1576	383 8	851 1	1788 4	482 90	905 1963	53 612	951	2137	7 742	997	2274	868	1044	2410	1055	1090
9.0 ectr			-	;	:	-	1319	300	842 1	1541	398	886 1	1762 4	495 931	1934	34 628	979	2106	3 761	1026	2244	919	1071	2381	1076	1115
ic 3				-			1274	317	885 1	1499 4	415 9	926 1	1724 5	513 96	967 1900	00 646	1010	2075	5 779	1054	2219	934	1093	2362	1089	1131
0.8						1	1245	328	914 1	1466 4	429 6	957 1	1686 5	531 1001	01 1865	35 663	1040	2044	1 796	1080	2188	951	1117	2332	1106	1154
6.0 6 To			-	:	-		1200	344	957 1	1424 4	446 9	995 1	1647 5	547 10	1032 1830	30 679	1069	2013	3 812	1105	2154	968	1143	2294	1124	1181
) nc	-	-	:	:	:	-	1155	360	1000	1382 4	1 1	1030 1	1609 5	563 1061	61 1796	96 695	1095	1983	3 826	1129	2124	980	1164	2264	1134	1200
Pac	;	-	:	:	:	:	:	:	:	:	:		1570 5	577 1087	87 1753	53 712	1124	1936	3 847	1162	2086	994	1189	2235	1141	1216
1.2 1.2	:	:	:	:	:	:	-	:	:	:	:	:	:		-	:	:	1905	5 859	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.).

									Exterr	nal Sta	itic (in	. w.g.))							
Air Volume (cfm)	0.	10	0.2	20	0.3	30	0.4	40	0.	50	0.	60	0.	70	0.8	80	0.	.9	1.	.0
(CIIII)	RPM	внр	RPM	внр	RPM	внр	RPM	внр	RPM	внр	RPM	внр	RPM	ВНР	RPM	внр	RPM	внр	RPM	внр
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
									Exterr	nal Sta	itic (in	. w.g.))							
Air Volume (cfm)	1.	.1	1.	.2	1.	.3	1	.4	1	.5	1	.6	1	.7	1.	.8	1.	.9	2	.0
(Cilli)	RPM	внр	RPM	внр	RPM	внр	RPM	внр	RPM	внр	RPM	внр	RPM	внр	RPM	внр	RPM	внр	RPM	внр
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.).

									Extern	nal Sta	atic (in	. w.g.))							
Air Volume (cfm)	0.	10	0.:	20	0.3	30	0.4	40	0.	50	0.	60	0.	70	0.8	80	0	.9	1	.0
(CIIII)	RPM	внр	RPM	внр	RPM	внр	RPM	внр	RPM	внр	RPM	внр	RPM	ВНР	RPM	внр	RPM	внр	RPM	ВНР
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
									Exterr	nal Sta	atic (in	. w.g.))							
Air Volume (cfm)	1.	.1	1.	.2	1.	.3	1.	.4	1	.5	1	.6	1.	.7	1.	.8	1	.9	2	.0
(61111)	RPM	внр	RPM	внр	RPM	внр	RPM	внр	RPM	внр	RPM	внр	RPM	ВНР	RPM	внр	RPM	внр	RPM	ВНР
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.).

									Exterr	nal Sta	itic (in	. w.g.)						,		
Air Volume	0.	10	0.2	20	0.3	30	0.	40	0.	50	0.	60	0.	70	0.8	80	0	.9	1.	.0
(cfm)	RPM	ВНР	RPM	внр	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	внр	RPM	ВНР	RPM	ВНР	RPM	внр	RPM	ВНР
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									Exterr	nal Sta	tic (in	. w.g.))		1					
Volume (cfm)	1.	1	1.	2	1.	.3	1	.4	1.	.5	1.	.6	1.	.7	1.	.8	1	.9	2.	.0
(RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
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	8.0	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

BELT DRIVE | 4 TON | HORIZONTAL

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.).

									Exterr	nal Sta	itic (in	. w.g.))							
Air Volume (cfm)	0.	10	0.2	20	0.	30	0.4	40	0.	50	0.0	60	0.	70	0.8	80	0.	.9	1.	.0
(CIIII)	RPM	ВНР	RPM	ВНР	RPM	внр	RPM	внр	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	внр	RPM	внр	RPM	внр
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									Exterr	nal Sta	itic (in	. w.g.)								
Volume (cfm)	1.	.1	1.	.2	1.	.3	1.	.4	1	.5	1.	.6	1.	.7	1.	.8	1.	.9	2.	.0
	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
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.).

Air Volume (cfm)									Exterr	nal Sta	itic (in	. w.g.)								
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.9		1.0	
	RPM	ВНР	RPM	внр	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
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)			1		1		I		Exterr	nal Sta	itic (in	. w.g.)) 				I			
			1.2		1.3		1.4		1.5		1.6		1.7		1.8		1.9		2.0	
	RPM		RPM		RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
1100	1089		1134	0.46																
1200	1095	0.46		0.50	1186					0.60										
1300	1104	0.50	1146	0.54	1192	0.57	1234	0.60		0.64	1301	0.68	1334	0.71	1367	0.75				
1400	1114		1155						1275								1406		1440	0.87
1500	1125	0.60	1165		1208	0.66			1281		1311	0.77	1344		1378		1412		1446	0.92
1600	1138		1177	0.68					1290		1319		1352				1418		1452	
1700	1152			0.74	1231	0.77			1299		1328		1360				1426		1459	1.05
1800	1167				1244				1310		1338		1370		1402		1434		1466	
1900	1183		1221	0.86					1323		1349		1380				1443		1475	
2000	1201		1239						1336		1362						1454		1485	
2100	1221	0.97		1.01	1294	1.05			1351		1376		1406				1466		1497	1.35
2200	1242		1277	1.09					1365		1390		1420		1450		1480		1510	
	1000	1 11	120E	1 10	4007	4 0 4	4055	4 00	1200	4 22	1100	4 07	1125	1 12	1165	1.46	1494	1.50	1524	1.54
2300	1262	1.14	1295	1.19	1327	1.24	1355	1.29	1380	1.33	1406	1.37	1435	1.42	1465	1.40	1494	1.50	1324	1.01

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	0.10 0.10 0.10 0.10																			
Volume (cfm)	0.	10	0.:	20	0.3	30	0.	40	0.	50	0.	60	0.	70	0.8	80	0	.9	1	.0
(СПП)	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
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									Exterr	nal Sta	tic (in	. w.g.))				,		,	
Volume (cfm)	1.	.1	1.	.2	1.	.3	1	.4	1	.5	1	.6	1.	.7	1.	.8	1	.9	2	.0
	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
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.

									Exterr	nal Sta	itic (in	. w.g.))							
Air Volume (cfm)	0.	10	0.2	20	0.3	30	0.	40	0.	50	0.	60	0.	70	0.8	80	0	.9	1.	.0
(CIIII)	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	внр	RPM	ВНР	RPM	внр	RPM	внр	RPM	ВНР
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					1				Exterr	nal Sta	itic (in	. w.g.))		1					
Volume (cfm)	1.	.1	1.	.2	1.	.3	1	.4	1.	.5	1.	.6	1.	.7	1.	.8	1	.9	2.	.0
	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
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.

									Extern	nal Sta	atic (in	. w.g.))							
Air Volume (cfm)	0.	10	0.:	20	0.	30	0.4	40	0.	50	0.	60	0.	70	0.	80	0.	.9	1.	.0
(СПП)	RPM	ВНР	RPM	внр	RPM	внр	RPM	ВНР	RPM	ВНР	RPM	внр	RPM	ВНР	RPM	внр	RPM	внр	RPM	внр
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									Exterr	nal Sta	atic (in	. w.g.))							
Volume (cfm)	1.	.1	1.	.2	1.	.3	1.	.4	1	.5	1	.6	1.	.7	1.	.8	1.	.9	2.	.0
	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР	RPM	ВНР
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

BELT DRIVE KIT SPECIFICATIONS - 036-060

Model	Mote	or HP	No. of			Drive Kits an	d RPM Range		
No.	Nominal	Maximum	Speeds	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	Mot	or HP	No. of	Drive	Kits and RPM R	ange
No.	Nominal	Maximum	Speeds	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	V	Vet Indoor (Coil	Humiditrol	Electric		Filt	ters
Volume cfm	036	048	060, 072, 074	Dehumidification Coil	Heat	Economizer	MERV 8	MERV 13
036-048 MOD	ELS	,	•					•
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

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

Air Values s	RTD	9-65S Step-Dow	n Diffuser	FD9-65S	RTD1	1-95S Step-Dow	n Diffuser	FD11-95S
Air Volume cfm	2 Ends Open	1 Side & 2 Ends Open	All Ends & Sides Open	Flush Diffuser	2 Ends Open	1 Side & 2 Ends Open	All Ends & Sides Open	Flush Diffuser
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.

ELECTRICA	AL/ELECTRIC H	HEAT	DATA			HIGH	EFFICIENC	Y - 3 TON
	Mod	del No.			LCH	036H4		
¹ Voltage - 60hz			208/230\	/ - 1 Ph	208/230	V - 3 Ph	460V - 3 Ph	575V - 3 Ph
Compressor	Rated Load	d Amps	14.	.2	8	.8	4	3.4
-	Locked Roto	r Amps	78.	.1	7	0	31	27
Outdoor Fan Motor	Full Load	d Amps	4.	1	4	.1	2.1	1.6
Power Exhaust (1) 0.33 HP	Full Load	d Amps	2.4	4	2	.4	1.3	1
Service Outlet 1	15V GFI (amps)		15	5	15		15	20
Indoor Blower	Horse	epower	0.9	5	0	.5	0.5	0.5
Motor	Full Load Am		4.3	3	4	.3	2.2	1.7
² Maximum	ım Unit Or		40)	2	25	15	15
Overcurrent Protection	urrent With (1) 0 33 H		40)	3	30	15	15
³ Minimum	Ur	nit Only	27	7	2	20	10	8
Circuit Ampacity	With (1) 0 Power E		29)	2	22	11	9
ELECTRIC HEA	T DATA						1	
Electric Heat Vo	oltage		208V	240V	208V	240V	480V	600V
² Maximum	Unit+		4 40	45	⁴ 25	30	15	15
Overcurrent Protection	Electric Heat	15 kW	4 80	90	⁴ 45	60	30	25
³ Minimum	Unit+		40	45	25	28	15	12
Circuit Ampacity	Electric Heat	15 kW	74	84	45	51	26	21
² Maximum	Unit+	7.5 kW	4 45	50	4 30	35	20	15
Overcurrent Protection	Electric Heat and (1) 0.33 HP Power Exhaust	15 kW	4 80	90	4 50	60	30	25
³ Minimum	Unit+	I	43	48	28	31	16	13
Circuit Ampacity	Electric Heat and (1) 0.33 HP Power Exhaust	15 kW	77	87	48	54	27	22
ELECTRICAL A	CCESSORIES							
Disconnect		7.5 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.

15 kW

20W21

20W21

20W21

20W21

20W21

20W21

² HACR type breaker or fuse.

Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
 Factory installed circuit breaker not available.

	AL/ELECTRIC	odel No.				ו כשמ)36S4			
1 Voltage COb-		Juei No.		200/220	V 2 Db	ССПС	1	2 Db	F75\/	2 Dh
¹ Voltage - 60hz					V - 3 Ph			- 3 Ph		- 3 Ph
Compressor	Rated Loa				.8			4		.4
	Locked Rote				0			31 		7
Outdoor Fan Motor	Full Loa	ad Amps		0	.9		0	.6	0	.5
Power Exhaust (1) 0.33 HP	Full Loa	ad Amps		2	.4		1	.3		1
Service Outlet 1	15V GFI (amps)			1	5		1	5	2	0
Indoor Blower	Hors	sepower	0.	75		1	0.75	1	0.75	1
Motor	Full Loa	nd Amps	3	.5	4	.6	1.6	2.1	1.3	1.7
² Maximum	U	Init Only	2	20	2	25	15	15	15	15
Overcurrent Protection	With (1)	0.33 HP Exhaust	2	25	2	25	15	15	15	15
³ Minimum	U	Init Only	1	6	1	7	8	8	7	7
Circuit Ampacity	With (1)	0.33 HP Exhaust	1	8	1	9	9	9	8	8
ELECTRIC HEA	AT DATA							ı		
Electric Heat Vo	oltage		208V	240V	208V	240V	480V	480V	600V	600V
² Maximum	Unit+	7.5 kW	4 25	30	30	30	15	15	15	15
Overcurrent Protection	Electric Heat	15 kW	4 45	50	4 45	60	25	30	20	25
³ Minimum	Unit+	7.5 kW	24	27	26	29	14	14	11	12
Circuit Ampacity	Electric Heat	15 kW	44	50	45	51	25	26	20	21
² Maximum	Unit+	7.5 kW	30	30	4 30	35	15	20	15	15
Overcurrent Protection	Electric Heat and (1) 0.33 HP Power Exhaust	15 kW	4 50	60	4 50	60	30	30	25	25
³ Minimum	Unit+	7.5 kW	27	30	29	32	15	16	12	13
Circuit Ampacity	Electric Heat and (1) 0.33 HP Power Exhaust	15 kW	47	53	48	54	27	27	21	22
ELECTRICAL A	CCESSORIES									·
Disconnect		7.5 kW	20W21	20W21	20W21	20W21	20W21	20W21	20W21	20W21
				1						

15 kW

20W21

20W21

20W21

20W21

20W21

20W21

20W21

20W21

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

² HACR type breaker or fuse.

Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
 Factory installed circuit breaker not available.

ELECTRICA	AL/ELECTRIC	HEAT	DATA			HIGH	H EFFICIENCY - 4 TON				
	Мо	del No.			LCHO)48H4					
¹ Voltage - 60hz	2		208/230	V - 1 Ph	208/230	V - 3 Ph	460V - 3 Ph	575V - 3 Ph			
Compressor	Rated Loa	ad Amps	17	7.1	11	.7	5.7	4.9			
	Locked Rot	or Amps	10	09	12	23	60	41			
Outdoor Fan Motor	Full Loa	ad Amps	4	.1	4	.1	2.1	1.6			
Power Exhaust (1) 0.33 HP	Full Loa	ad Amps	2	.4	2	.4	1.3	1			
Service Outlet 1	15V GFI (amps)		1	5	15		15	20			
Indoor Blower	Hors	sepower	0.75		0.	75	0.75	0.75			
Motor	Full Load Am				6	.1	3.1	2.4			
² Maximum	num Unit On		4	.5	35		15	15			
Overcurrent Protection	current With (1) 0.33 HI		5	0	3	5	15	15			
³ Minimum	L	Init Only	3	2	2	:5	13	11			
Circuit Ampacity	With (1) Power	0.33 HP Exhaust	34		2	8	14	12			
ELECTRIC HEA	AT DATA				I		1				
Electric Heat Vo	oltage		208V	240V	208V	240V	480V	600V			
² Maximum		7.5 kW	4 45	50	35	35	20	15			
Overcurrent Protection	Electric Heat	15 kW	4 80	90	4 50	60	30	25			
³ Minimum		7.5 kW	42	47	28	31	16	13			
Circuit Ampacity	Electric Heat	15 kW	76	86	47	53	27	22			
² Maximum	Unit+	7.5 kW	50	50	35	35	20	15			
Overcurrent Protection	Electric Heat and (1) 0.33 HP Power Exhaust	15 kW	4 80	90	4 50	60	30	25			
³ Minimum		7.5 kW	45	50	31	34	17	14			
Circuit Ampacity	Electric Heat and (1) 0.33 HP Power Exhaust	15 kW	79	89	50	56	29	23			
ELECTRICAL A	ACCESSORIES	, i									
Disconnect		7.5 kW	20W21	20W21	20W21	20W21	20W21	20W21			

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.

15 kW

20W22

² HACR type breaker or fuse.

Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
 Factory installed circuit breaker not available.

ELECTRICAL/ELE	ATA	STANDARD EFFICIENCY - 4 TO								
		Model No.				LCH)48S4			
¹ Voltage - 60hz				208/230	V - 3 Ph		460V	- 3 Ph	575V - 3 Ph	
Compressor	Rated	Load Amps		11	1.7		5.7		4.9	
	Locked F	Rotor Amps		123			60		4	1
Outdoor Fan Motor	Full	Full Load Amps			1.7			.1	0	.7
Power Exhaust\ (1) 0.33 HP	Full	Full Load Amps			.4		1	.3		1
Service Outlet 115V GFI	(amps)			1	5		1	5	2	.0
Indoor Blower	F	Horsepower		75	:	2	0.75	2	0.75	2
Motor	Full Load Amps		3	.5	7	.5	1.6	3.4	1.3	2.7
² Maximum		Unit Only	3	30	3	35	15	15	15	15
Overcurrent Protection	IIIVV		30		3	35	15	15	15	15
³ Minimum		Unit Only	2	20	2	24	10	12	9	10
Circuit	With (1) 0.33 HP	23		27		12	13	10	11
Ampacity	Power Exhaust									
ELECTRIC HEAT DATA			'		1		'		'	1
Electric Heat Voltage			208V	240V	208V	240V	480V	480V	600V	600V
² Maximum	Unit+	7.5 kW	30	30	35	35	15	20	15	15
Overcurrent Protection	Electric Heat	15 kW	4 45	50	4 50	60	25	30	20	25
³ Minimum	Unit+	7.5 kW	24	27	29	32	14	16	11	13
Circuit Ampacity	Electric Heat	15 kW	44	50	49	55	25	27	20	22
² Maximum	Unit+	7.5 kW	30	30	35	35	15	20	15	15
Overcurrent Protection	Electric Heat and (1) 0.33 HP Power Exhaust	15 kW	4 50	60	60	60	30	30	25	25
³ Minimum	Unit+	7.5 kW	27	30	32	35	15	18	12	14
Circuit	Electric Heat	15 kW	47	53	52	58	27	29	21	23
Ampacity	and (1) 0.33 HP									
	Power Exhaust									
ELECTRICAL ACCESSO	ORIES									
Disconnect		7.5 kW	20W21	20W21	20W21	20W21	20W21	20W21	20W21	20W21
	_	15 kW	20W21	20W21	20W21	20W21	20W21	20W21	20W21	20W21

¹ Extremes of operating range are plus and minus 10% of line voltage. ² HACR type breaker or fuse.

Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
 Factory installed circuit breaker not available.

		Andal Na			000114					
1 Valtage - COb		Model No.	200/22)V - 1 Ph	T	060H4	460V - 3 Ph	575V - 3 Ph		
¹ Voltage - 60h)V - 3 Ph				
Compressor		oad Amps		3.5	14		6.5	4.9		
0.11	Locked R			18	93		60	41		
Outdoor Fan Motor	Full L	oad Amps	4	l.1 	4	1	2.1	1.6		
Power Exhaust (1) 0.33 HP	Full L	oad Amps	2	2.4	2	2.4	1.3	1		
Service Outlet 1	115V GFI (amps)		,	15	1	15	15	20		
Indoor Blower	Н	orsepower		1		1	1	1		
Motor	Full L	Full Load Amps		'.4	7	'.4	3.7	3		
² Maximum		Unit Only	(60	2	10	20	15		
Overcurrent Protection	•) 0.33 HP er Exhaust	6	60	45		20	15		
³ Minimum		Unit Only	4	1 1	2	29	14	11		
Circuit Ampacity	With (1) 0.33 HP Power Exhaust		44		32		16	12		
ELECTRIC HE	AT DATA	1								
Electric Heat V	/oltage		208V	240V	208V	240V	480V	600V		
² Maximum	Unit+	7.5 kW	60	60	40	40	20	15		
Overcurrent Protection	Electric Heat	15 kW	4 80	90	4 50	60	30	25		
		22.5 kW	⁴ 125	150	4 70	80	40	35		
³ Minimum	Unit+	7.5 kW	44	49	29	32	16	13		
Circuit Ampacity	Electric Heat	15 kW	77	88	49	55	28	22		
, ,		22.5 kW	111	127	68	77	39	31		
² Maximum	Unit+	7.5 kW	60	60	45	45	20	15		
Overcurrent Protection	Electric Heat	15 kW	4 80	100	60	60	30	25		
	and (1) 0.33 HP Power Exhaust	22.5 kW	⁴ 125	150	80	80	45	35		
³ Minimum	Unit+	7.5 kW	47	52	32	35	18	15		
Circuit Ampacity	Electric Heat	15 kW	80	91	52	58	29	24		
, unpaony	and (1) 0.33 HP Power Exhaust	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

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.

,,	CTRIC HEAT D						OARD EFFICIENCY - 5 TOI 1060S4				
414.14		Model No.				LCHU	1				
¹ Voltage - 60hz					V - 3 Ph			- 3 Ph	575V - 3 Ph		
Compressor		Load Amps		-	4		6.5		4		
	Locked I	Rotor Amps		93			60		4	1	
Outdoor Fan Motor	Full		2	.4		1	.3	,	1		
Power Exhaust (1) 0.33 HP	Full		2	.4		1	.3		1		
Service Outlet 115V GFI (a	amps)			1	5		1	5	2	0	
Indoor Blower	ŀ	Horsepower		1	2	2	1	2	1	2	
Motor	Full	Load Amps	4	.6	7	.5	2.1	3.4	1.7	2.7	
² Maximum		Unit Only	3	35	4	.0	15	15	15	15	
Overcurrent Protection		(1) 0.33 HP ver Exhaust	4	-0	4	.0	15	20	15	15	
³ Minimum		Unit Only	2		2	8	12	13	9	10	
Circuit Ampacity	With (1) 0.33 HP		2	27	3	0	13	15	10	11	
ELECTRIC HEAT DATA											
Electric Heat Voltage			208V	240V	208V	240V	480V	480V	600V	600V	
² Maximum	Unit+	7.5 kW	35	35	40	40	15	20	15	15	
Overcurrent Protection	Electric Heat	15 kW	4 45	60	4 50	60	30	30	25	25	
1 Totodion	_	22.5 kW	4 70	80	4 70	80	40	40	30	35	
³ Minimum	Unit+	7.5 kW	26	29	29	32	14	16	12	13	
Circuit Ampacity	Electric Heat	15 kW	45	51	49	55	26	27	21	22	
Ampacity	-	22.5 kW	65	74	69	78	37	39	30	31	
² Maximum	Unit+	7.5 kW	40	40	40	40	20	20	15	15	
Overcurrent Protection	Electric Heat	15 kW	4 50	60	60	60	30	30	25	25	
FIOLECTION	and (1) 0.33 HP Power Exhaust	22.5 kW	4 70	80	4 80	90	40	40	35	35	
³ Minimum	Unit+	7.5 kW	29	32	32	35	16	18	13	14	
Circuit Ampacity	Electric Heat	15 kW	48	54	52	58	27	29	22	23	
, unpastly	and (1) 0.33 HP ⁻ Power Exhaust	22.5 kW	68	77	72	81	39	40	31	32	
ELECTRICAL ACCESSO	RIES										
Disconnect		7.5 kW	22A23	22A23	22A23	22A23	22A23	22A23	22A23	22A23	
	-	15 kW	22A23	22A23	22A23	22A23	22A23	22A23	22A23	22A23	
			l	1							

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

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 HEA						_	EFFICI	ENCY -	0 10
	N	lodel No.				LCHO)72H4		I	
¹ Voltage - 60hz					V - 3 Ph			- 3 Ph		- 3 Ph
Compressor		oad Amps		19	9.6			.2	6.6	
	Locked Ro	otor Amps		1	36		66	5.1 	55.3	
Outdoor Fan Motor	Full Lo	oad Amps		2	.4		1	.3	1	
Power Exhaust (1) 0.33 HP	Full Lo	oad Amps	2.4				1	.3		1
Service Outlet 115V	GFI (amps)			1	5		1	5	2	20
Indoor Blower	Ho	rsepower		1	2	2	1	2	1	2
Motor	Full Lo	oad Amps	4	.6	7	.5	2.1	3.4	1.7	2.7
² Maximum		Unit Only	5	0	5	0	20	20	15	15
Overcurrent	With (1) 0.33 HP	5	50	5	0	20	20	15	15
Protection	Powe	r Exhaust								
³ Minimum		Unit Only	3	2	3	5	14	15	11	12
Circuit Ampacity	With (1) 0.33 HP	3	4	3	7	15	17	12	13
Ampaoity	Powe	r Exhaust								
ELECTRIC HEAT D	АТА									
Electric Heat Volta	ge		208V	240V	208V	240V	480V	480V	600V	600V
² Maximum	Unit+	7.5 kW	50	50	50	50	20	20	15	15
Overcurrent Protection	Electric Heat	15 kW	4 50	60	4 50	60	30	30	25	25
TOCCOLOT		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	Unit+	7.5 kW	32	32	35	35	14	16	12	13
Circuit Ampacity	Electric Heat	15 kW	45	51	49	55	26	27	21	22
Ampacity		22.5 kW	65	74	69	78	37	39	30	31
		30 kW	84	96	88	100	48	50	39	40
² Maximum	Unit+	7.5 kW	50	50	50	50	20	20	15	15
Overcurrent	Electric Heat	15 kW	⁴ 50	60	60	60	30	30	25	25
Protection	and (1) 0.33 HP	22.5 kW	4 70	80	4 80	90	40	40	35	35
	Power Exhaust	30 kW	4 90	100	4 100	110	50	60	40	45
³ Minimum	Unit+	7.5 kW	34	34	37	37	16	18	13	14
Circuit	Electric Heat	15 kW	48	54	52	58	27	29	22	23
Ampacity	and (1) 0.33 HP	22.5 kW	68	77	72	81	39	40	31	32
	Power Exhaust	30 kW	87	99	91	103	50	51	40	41
ELECTRICAL ACC	ESSORIES	30	<u> </u>		<u> </u>			<u> </u>		
Disconnect	LOSORILS	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
				—	22A24	22A23	22A23	 		1

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 HEA	T DATA	TA HIGH EFFICIENCY - 6							6 TON
	N	lodel No.				LCHO	74H4			
¹ Voltage - 60hz				208/230	V - 3 Ph		460V	- 3 Ph	575V	- 3 Ph
Compressor	Rated L	oad Amps		17	7.6		8.5		6.3	
_	Locked Ro	otor Amps		1;	36		66.1		55.3	
Outdoor Fan Motor	Full L	oad Amps	2.4				1.3		1	
Power Exhaust (1) 0.33 HP	Full L	oad Amps	2.4				1	.3	,	1
Service Outlet 115V	GFI (amps)			1	5		1	5	2	0
Indoor Blower	Ho	rsepower		1		2	1	2	1	2
Motor	Full Lo	oad Amps	4	.6	7	.5	2.1	3.4	1.7	2.7
² Maximum		Unit Only	4	.5	4	ļ5	20	20	15	15
Overcurrent	With (1) 0.33 HP	4	5	5	50	20	25	15	15
Protection	`	r Exhaust								
³ Minimum		Unit Only	2	9	3	32	15	16	11	12
Circuit	With (1) 0.33 HP	3	2	3	35	16	17	12	13
Ampacity	Powe	r Exhaust								
ELECTRIC HEAT DA	ATA				,			,		
Electric Heat Voltag	je		208V	240V	208V	240V	480V	480V	600V	600V
Maximum Unit+	7.5 kW	45	45	45	45	20	20	15	15	
Overcurrent	Electric Heat	15 kW	⁴ 45	60	4 50	60	30	30	25	25
Protection		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	Unit+	7.5 kW	29	29	32	32	15	16	12	13
Circuit	Electric Heat	15 kW	45	51	49	55	26	27	21	22
Ampacity		22.5 kW	65	74	69	78	37	39	30	31
		30 kW	84	96	88	100	48	50	39	40
² Maximum	Unit+	7.5 kW	45	45	50	50	20	25	15	15
Overcurrent	Electric Heat	15 kW	4 50	60	60	60	30	30	25	25
Protection	and (1) 0.33 HP	22.5 kW	4 70	80	4 80	90	40	40	35	35
	Power Exhaust	30 kW	4 90	100	4 100	110	50	60	40	45
³ Minimum	Unit+	7.5 kW	32	32	35	35	16	18	13	14
Circuit	Electric Heat	15 kW	48	54	52	58	27	29	22	23
Ampacity	and (1) 0.33 HP	22.5 kW	68	77	72	81	39	40	31	32
	Power Exhaust	30 kW	87	99	91	103	50	51	40	41
ELECTRICAL ACCT	CCODITO	JU KVV	01	99	91	103	30	31	40	41
ELECTRICAL ACCE	SOURIES	7 = 114	00400	20.4.00	20400	00400	00400	20.400	20.4.00	00400
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

 $^{^{\}mbox{\tiny 1}}$ Extremes of operating range are plus and minus 10% of line voltage.

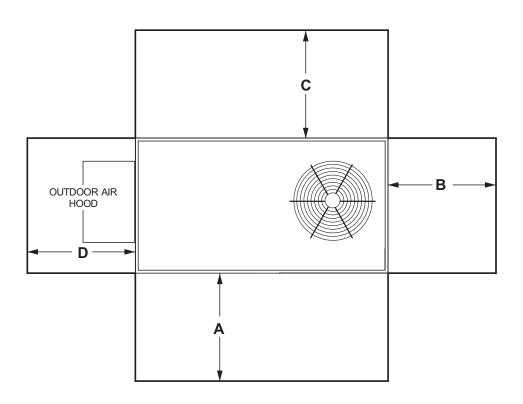
² HACR type breaker or fuse.

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													
Innut		7.5 kW			15 kW			22.5 kW		30 kW			
Input Voltage	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	4	Α		В		С		כ	Тор
Offit Clearance	in.	mm	in.	mm	in.	mm	in.	mm	Clearance
Service Clearance	36	914	36	914	36	934	36	914	Linghatrustad
Minimum Operation Clearance	36	914	36	914	36	914	36	914	Unobstructed

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

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

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

Outdoor

Net

WEIGHT DATA

Model Number

Shipping

Outdoor

Net

Madal Nivesbar	Outdool		-		P9	Outuooi		••	JP	P9
Model Number	Coil	lbs.	kg	lbs.	kg	Coil	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 DAT	Δ						OP1	TIONS /	ACCES	SORIES
WEIGHT DAT	^						01	Shipping		JORILO
							lbs			~
FOONOMIZED /		. / FVIIAI	IOT				IDS) .	k	<u>1</u>
ECONOMIZER /	OUTDOOK AII	R / EXHAU	181							
Economizer						1		. 1		
Economizer, Inclu		n Outdoor	Air Hood a	nd Barome	tric Relief Da	ampers	13	1	59)
Outdoor Air Dam	pers					1		. 1		
Motorized							40		18	
Manual							30)	14	1
Power Exhaust						1		. 1		
Standard Static							35)	17	<u>/</u>
ELECTRIC HEAT										
						7.5 kW	31		14	1
						15 kW	31		14	
					2	22.5 kW	35		16	
						30 kW	35	5	16	3
PACKAGING										
LTL Packaging (le	ss than truck lo	ad)					60)	27	7
ROOF CURBS										
Hybrid Roof Curk	os, Downflow									
8 in. height	•				C1CUR	B70A-1	50)	23	3
14 in. height					C1CUR	B71A-1	70)	32	2
18 in. height					C1CUR	H-	80)	36	
24 in. height					C1CUR	B73A-1	10	0	4	 5
Adjustable Pitch	Curb, Downflo	w								
14 in. height	-						11	3	5	1
CEILING DIFFUS	ERS									
Step-Down					RT	D9-65S	80)	36	 3
2.50 201111						011-958	11		54	
Flush						D9-65S	80		36	
3011						011-958	11		54	
Transitions					T1TRAN		22		10	
1141101110110						N20N-1	2		10	
HUMIDITROL® D	EUIIMIDIEIOA	TION CV	CTEM		11111	142014-1		·		
						Т	0-	, 1		
Humiditrol Dehum	idification Optic	n (Net We	ignt)				27	'	12	<u> </u>

UNIT

Shipping

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

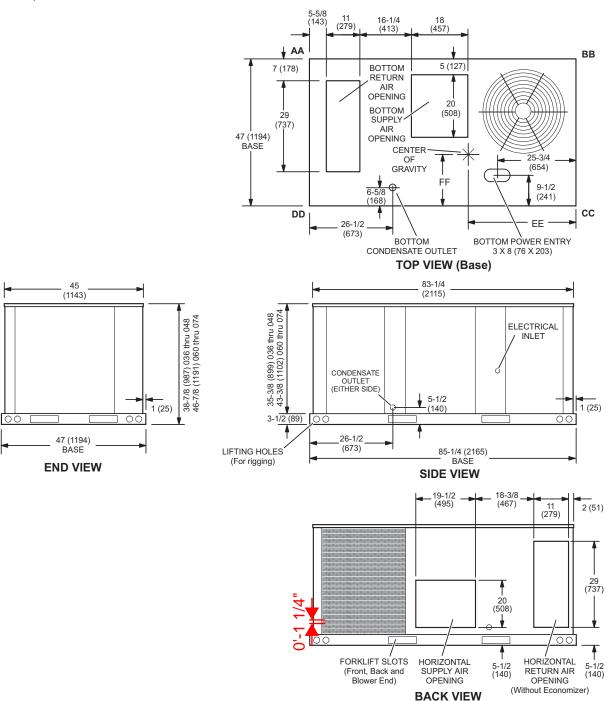
Sound Rating Number according to AHRI Standard 270-95 (includes pure tone penalty). Sound Rating Number is the overall A-Weighted Sound Power Level, (Lwa), dBA (100 Hz to 10,000 Hz).

DIMENSIONS UNIT

CORNER WEIGHTS	CORNER WEIGHTS									CENTER OF GRAVITY			
Model No.	AA		В	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	

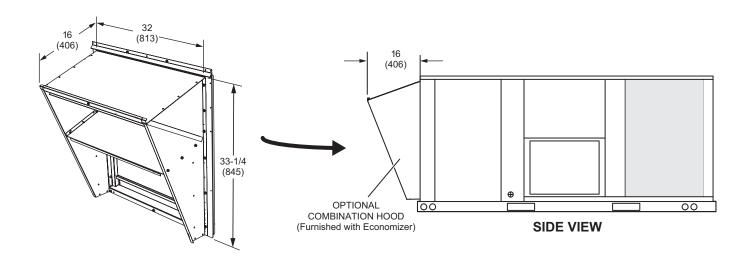
Base Unit - The unit with NO INTERNAL OPTIONS.

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.

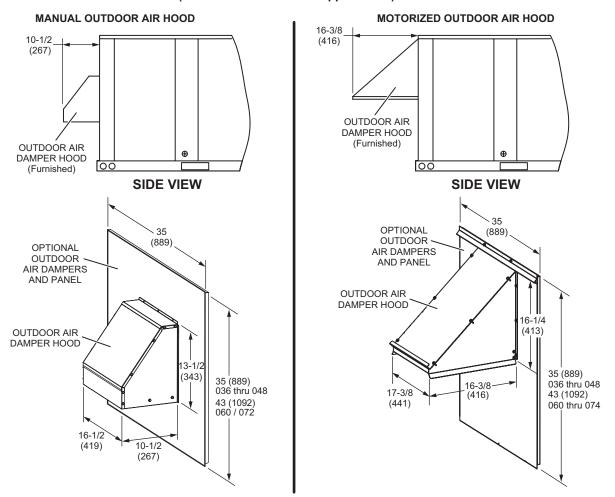


COMBINATION OUTDOOR AIR HOOD DETAIL FOR OPTIONAL ECONOMIZER AND BAROMETRIC RELIEF DAMPERS

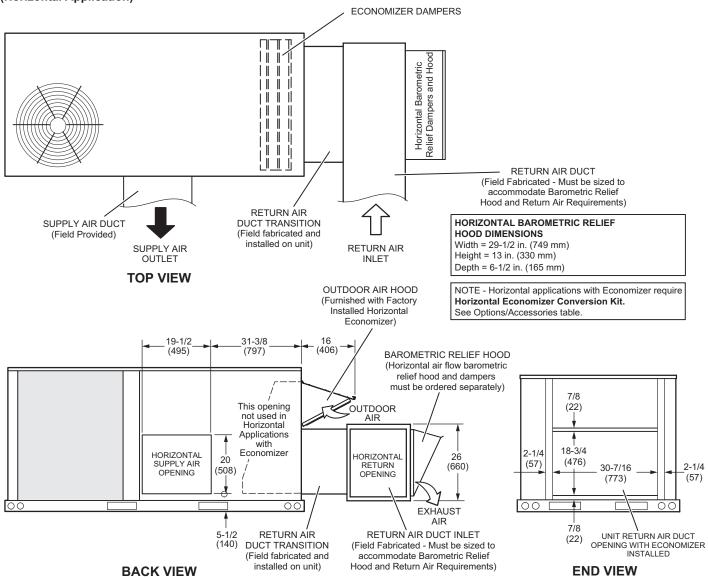
(Furnished With Economizer for Downflow Applications)



OUTDOOR AIR DAMPER HOOD DETAIL (Downflow or Horizontal Applications)

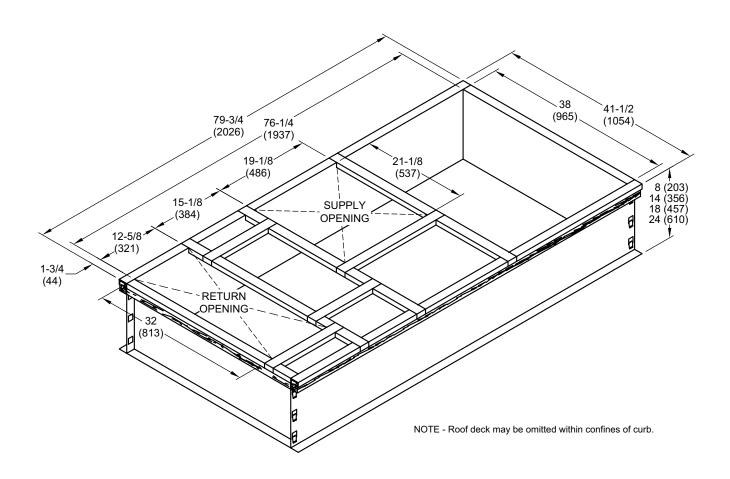


OUTDOOR AIR HOOD DETAIL WITH OPTIONAL ECONOMIZER AND OPTIONAL BAROMETRIC RELIEF DAMPERS WITH HOOD (Horizontal Application)

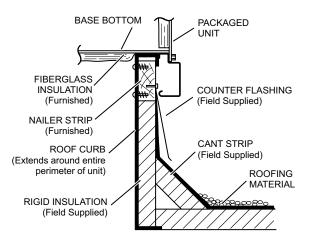


NOTE - Return Air Duct and Transition must be supported

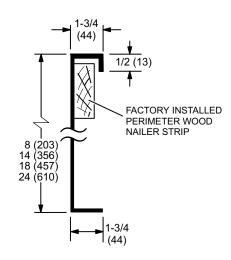
HYBRID ROOF CURBS - DOUBLE DUCT OPENING



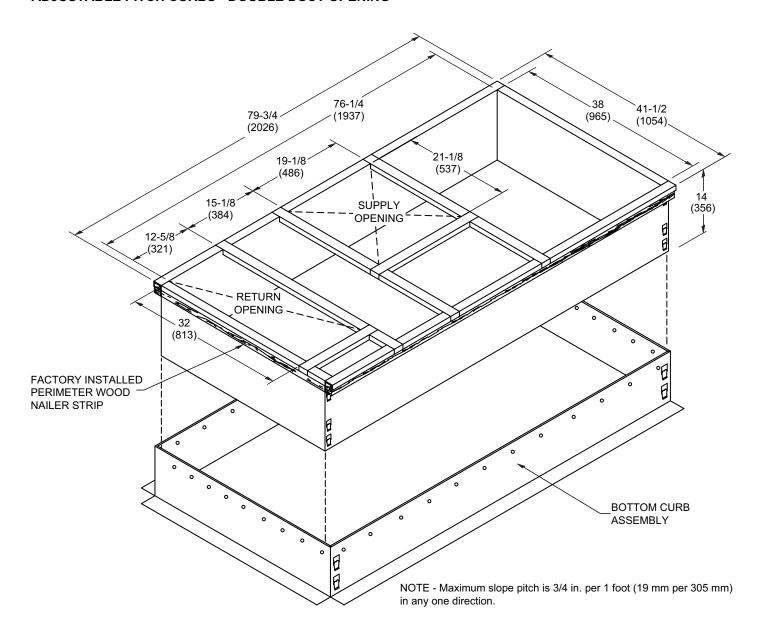
TYPICAL FLASHING DETAIL FOR ROOF CURB



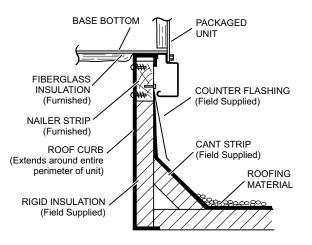
DETAIL ROOF CURB



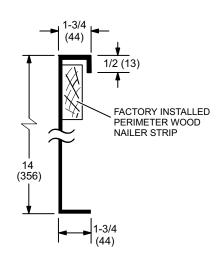
ADJUSTABLE PITCH CURBS - DOUBLE DUCT OPENING

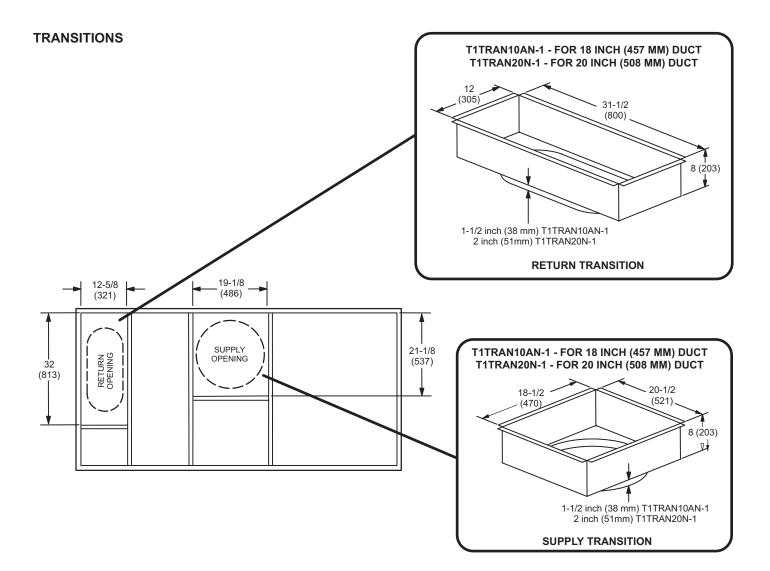


TYPICAL FLASHING DETAIL FOR ROOF CURB



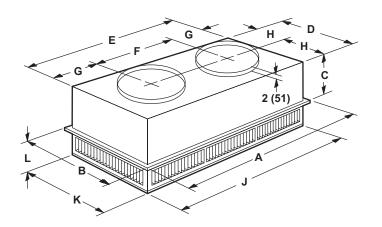
DETAIL ROOF CURB

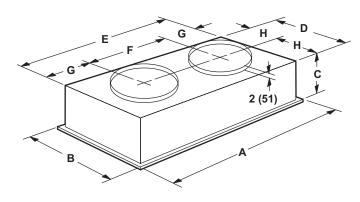




COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS STEP-DOWN CEILING DIFFUSER FLUS

FLUSH CEILING DIFFUSER





Model Numbe	r	RTD9-65S	RTD11-95S
Α	in.	47-5/8	47-5/8
	mm	1159	1159
В	in.	23-5/8	29-5/8
	mm	600	752
С	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
Н	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
Α	in.	47-5/8	47-5/8
	mm	1159	1159
В	in.	23-5/8	29-5/8
	mm	600	752
С	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
Н	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**















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