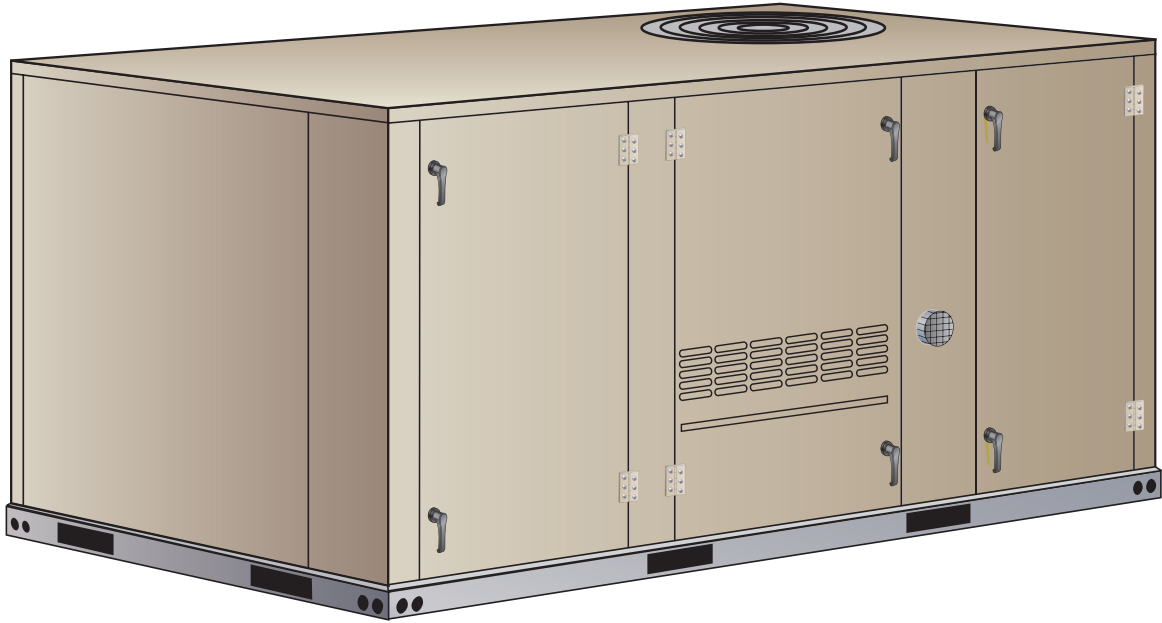




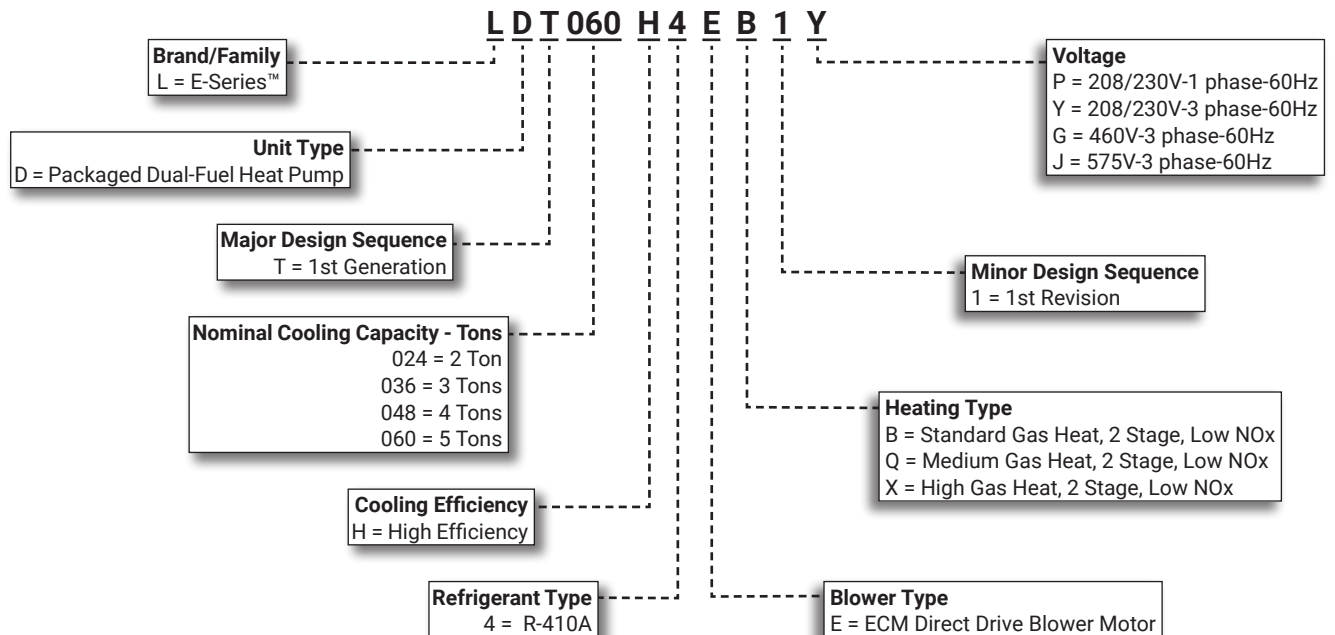
**COMMERCIAL
PRODUCT SPECIFICATIONS**

Bulletin No. 310981
August 2023
Supersedes March 2023



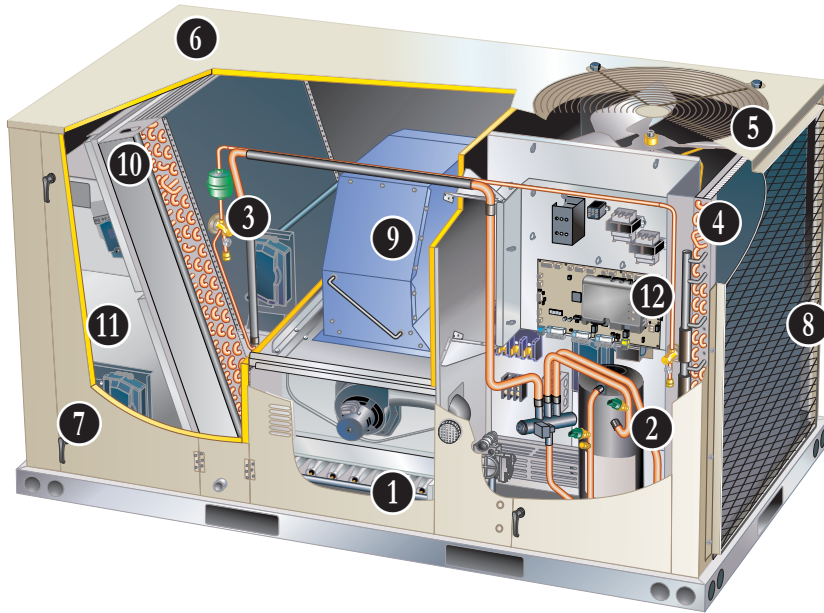
2 to 5 Tons
Net Cooling Capacity - 24,000 to 57,200 Btuh
Net Heating Capacity - 24,000 to 54,500 Btuh
Gas Input Heat Capacity - 65,000 to 150,000 Btuh

MODEL NUMBER IDENTIFICATION



FEATURE HIGHLIGHTS

E-Series™ rooftop units featuring the Intelli-Guide™ 2.0 Control System create a bright future through a highly energy-efficient and environmentally sustainable design. Comprehensive configurations meet a wide range of applications, making it the most flexible product line Allied has to offer.



1. Aluminized steel inshot burners
2. Two Stage Compressor
3. Filter/Drier
4. Outdoor Coil
5. Variable Speed (ECM) Fan Motor
6. Heavy Gauge Steel Cabinet
7. Hinged Access Panels
8. Combination Coil/Hail Guards (option)
9. Supply Air Direct Drive (ECM) Blower
10. Air Filters
11. Intelli-Guide™ 2.0 Control System
12. Economizer (option)

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APPROVALS AND WARRANTY

APPROVALS

- AHRI Certified to AHRI Standard 210/240
- ETL and CSA listed
- Efficiency rating certified by CSA
- Unit and components are ETL, NEC and CEC bonded for grounding to meet safety standards for servicing
- All models are ASHRAE 90.1 compliant
- All models meet DOE 2023 energy efficiency standards
- 3, 4, and 5 ton models are ENERGY STAR® certified to use less energy, help save money on utility bills, and help protect the environment
- ISO 9001 Registered Manufacturing Quality System

California Only

- These gas units do not meet the South Coast Air Quality Management District (SCAQMD) Rule 1111 and San Joaquin Valley Air Pollution Control District (SJVAPCD) Rule 4905 NOx emission limit (14 ng/J) and cannot be installed within the SCAQMD and SJVAPCD areas
- Low NOx gas units are approved by the California Energy Commission and meets California Nitrogen Oxides Standard (NOx) limits of 40 ng/J

WARRANTY

- Stainless Steel Heat Exchanger - Limited fifteen years
- Compressors - Limited five years
- Intelli-Guide™ 2.0 Unit Controller - Limited three years
- High Performance Economizers (optional) - Limited five years
- All other covered components - Limited one year

FEATURES AND BENEFITS

1 DUAL-FUEL OPERATION

(Heating Mode)

- Operates the heat pump for 1st stage heating
 - If 1st stage heat settings are not met, 2nd stage activates gas heating (secondary heat source)
- Mechanical heat pump operation automatically terminates on gas heat start-up
- Intelli-Guide™ 2.0 Control System automatically changes blower speeds between heat pump heating and gas heating
- Blower operates in high speed during 1st stage (heat pump) operation and terminates during changeover to gas heat operation
- Blower starts when heat exchanger is warm, and runs in high speed during 2nd stage (gas heat) operation
 - If continuous blower operation is available on the thermostat, a change in blower speed automatically occurs during heat pump to gas heat changeover

COOLING / HEATING 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

2 Two-Stage Compressor

- Two-stage scroll compressors on all models for high performance, reliability, quiet operation and increased part-load efficiency
- 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 Check/Expansion Valve

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

Reversing Valve

- 4-way interchange reversing valve rapidly changes the direction of refrigerant flow resulting in quick changeover from cooling to heating and vice versa

3 Filter/Drier

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

FEATURES AND BENEFITS

COOLING / HEATING SYSTEM (continued)

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

Indoor Coil Freeze Protection

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

4 Outdoor Coil

- Copper tube construction
- Enhanced rippled-edge aluminum fins
- Flared shoulder tubing connections
- Silver soldered construction
- Factory leak tested

Indoor 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

Antimicrobial Condensate Drain Pan

- Composite pan, sloped to meet drainage requirements of ASHRAE 62.1
- Antimicrobial additive resists growth of mold and mildew on drain pan, which improves indoor air quality and reduces drain line blockage
- Side or bottom drain connections
- Reversible to allow connection at back of unit

5 Variable Speed Outdoor Coil Fan Motor

- Variable speed (ECM) fan motor for energy efficient Single Zone VAV operation and quiet operation
- Thermal overload protected
- Totally enclosed
- Permanently lubricated ball bearings
- Shaft up
- Wire basket mount

Outdoor Coil Fan

- PVC coated fan guard furnished

Required Selections

Cooling Capacity

- Specify nominal cooling capacity

Options/Accessories

Factory or Field Installed

Drain Pan Overflow Switch

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

Field Installed

Condensate Drain Trap

- Constructed of PVC or copper

GAS HEATING SYSTEM

Heat Exchanger

- Aluminized steel inshot burners
- Direct spark ignition
- Electronic flame sensor
- Combustion air inducer
- Redundant automatic dual stage gas valve with manual shut-off

Heat Exchanger

- Tubular construction, stainless steel
- Life cycle tested

Limit Controls

- Factory installed, redundant limit controls with fixed temperature setting
- Heat limit controls protect heat exchanger and other components from overheating

Safety Switches

- Flame roll-out switch, flame sensor and combustion air inducer proving switch protect system operation
- All safety switches are monitored by the Intelli-Guide™ 2.0 Unit Controller and diagnostic information is reported and recorded

Required Selections

Gas Input Choice - Order one:

- Standard Gas Heat (2 Stage) 53,000/65,000 Btuh
- Medium Gas Heat (2 Stage) 81,000/108,000 Btuh
- High Gas Heat (2 Stage) 113,000/150,000 Btuh
- See Gas Heat Specifications Tables on page 20

NOTE - All models are furnished with Low NOx (40 ng/J) gas heat.

FEATURES AND BENEFITS

GAS HEATING SYSTEM (continued)

Options/Accessories

Factory Installed

Stainless Steel Heat Exchanger

- Required if mixed air temperature is below 45 °F

Vertical Vent Extension Kit

- Use to exhaust flue gases vertically above unit
- Required when unit vent is too close to fresh air intakes per building codes
- Prevents ice formation on intake louvers
- Kit contains vent transition, drain cap and installation hardware

NOTE - Straight vent pipe (3 in. B-Vent), vent tee and vent cap are not furnished and must be field supplied. Refer to kit instructions for additional information.

Field Installed

Combustion Air Intake Extensions

- Recommended for use with existing flue extension kits in areas where high snow can block intake air

Low Temperature Vestibule Heater

- Extends gas heat operation from -40°F (standard) down to -60°F
- Electric heater automatically controls minimum temperature in gas burner compartment when temperature falls below -40°F

LPG/Propane Kits

- Conversion kit to field change over units from Natural Gas to LPG/Propane

CABINET

6 Construction

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

Airflow Choice

- Units are shipped in downflow (vertical) return air flow configuration

NOTE - Can be field converted to horizontal airflow configuration without any optional kits.

Duct Flanges

- Provided for horizontal duct attachment

Power/Gas Entry

- Electrical and gas lines can be routed through the unit base or through horizontal access knock-outs

Exterior Panels

- Constructed of heavy-gauge, galvanized steel
- Textured pre-paint with polyurethane finish
- Cyclic salt fog and UV exposure up to 1,680 hours per ASTM D5894

Insulation

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

7 Hinged Access Panels

- Tool-less access
- Economizer/ Filter sections
- Compressor/controls sections
- Panel seals and quarter-turn latching handles provide a tight air and water seal

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

Required Selections

Airflow Configuration

- Specify horizontal or downflow

Options/Accessories

Factory Installed

Corrosion Protection

- Completely flexible immersed coating
- Electrodeposited dry film process (AST ElectroFin E-Coat)
- ASTM B117 / DIN 53167 Salt Spray - 15,000+ hours
- ASTM G85 Annex A3 SWAAT Modified Salt Spray - 3,000 hours
- VA Master Construction Specification Division 23 for High Humidity Installations
- CID AA-52474A (GSA)

Factory or Field Installed

8 Combination Coil/Hail Guards

- Heavy gauge steel frame
- Painted to match cabinet
- Expanded metal mesh protects outdoor coil

FEATURES AND BENEFITS

9 BLOWER

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

Variable-Speed ECM Direct Drive Motor

- All models (forward curved blades)

E-Direct™ Direct Drive ECM Blower System

- 036, 048 and 060 models (backward curved blades)
- High-efficiency, variable-speed ECM (electronically commutated) motor
- Eliminates the need for a separate variable-frequency drive
- Advanced Blower Diagnostics: Intelli-Guide™ 2.0 Unit Controller communicates via Modbus with DirectPlus™ blower to provide control commands, blower proving functionality, and detailed alarm codes
- Single Zone VAV control modulates the amount of supply blower airflow according to cooling demand, heating demand, ventilation demand or smoke alarm
- The amount of airflow for each stage can be set according to a parameter in the Intelli-Guide™ 2.0 Unit Controller
- Unit is shipped from the factory with preset airflows
- Fully variable speed motor modulates to maximize system efficiency
- Combines the motor and electronics into one unit
- Aerodynamically optimized impeller with curved blades mounted directly onto the rotor



- Air inlet grill reduces indoor sound levels without affecting air performance

Required Selections

Blower Motor

- Specify Standard Static or High Static

ELECTRICAL

WireRight™ System

- Keyed and color-coded wiring connectors 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

Disconnect Switch

- Accessible outside of unit
- Spring loaded weatherproof cover furnished

Phase/Voltage Detection (3 Phase models only)

- Monitors power supply to ensure 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 ensure proper voltage
 - If voltage is not correct (over/under voltage conditions) the unit will not start and an alarm code is reported to the unit controller

Factory Installed

Short-Circuit Current Rating (SCCR)

- Higher short circuit protection up to 100kA

NOTE - Disconnect Switch is furnished and factory installed with High SCCR option.

Factory or Field Installed

GFI Service Outlets (2)

- 115V ground fault circuit interrupter (GFCI) type options:
 - Factory installed, non-powered, field wired
 - Field installed, non-powered, field wired

FEATURES AND BENEFITS

INDOOR AIR QUALITY

10 Air Filters

- Disposable 2 inch MERV 4 filters furnished as standard

Options/Accessories

Factory or Field Installed

High Efficiency Air Filters

- Disposable MERV 8 and MERV 13 (Minimum Efficiency Reporting Value based on ASHRAE 52.2) efficiency 2 inch pleated filters

Field Installed

- Intelli-Guide™ 2.0 Unit Controller, which adjusts economizer dampers as needed
-

INTELLI-GUIDE™ 2.0 CONTROL SYSTEM



- 11 The Intelli-Guide™ 2.0 Control system is designed to accelerate equipment install and service. Standard with all E-Series™ rooftop units, control system integrates key technologies that lower installation costs, drive system efficiency, and protect your investments. The Intelli-Guide™ 2.0 Unit Controller is a microprocessor-based controller that provides flexible control of all unit functions.

Service Mobile App

- Guided Setup with progress indicators, detailed help, and exportable summaries to manage simple, trouble-free setup, reducing commissioning times
- Enhanced Test Functionality provides real-time sensor readings, trending, and reports that enable easy troubleshooting
- Ability to set and configure parameters of the Control System to manage sequence of operation
- Economizer test function ensures economizer is operating correctly

Additional Features:

- Built-In 7-Segment Display shows Unit Status and active alarms for easy troubleshooting
- Buttons for test and clearing delays
- WireRight™ System with keyed and removable screw terminals ensure correct field wiring
- Built-in BACnet MS/TP and IP allow open integration to building management systems
- Two-port Ethernet Switch enables daisy chaining for BACnet IP and automatic firmware updates

NOTE - Unit Internet Connection required.

- 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 Intelli-Guide™ 2.0 Unit Controller enhance functionality without the need to change components
- Unit Controller Software

Configurable Built-In Functions

- Discharge Air Cooling Control
- Up to three distinct Cooling Airflows in Thermostat Mode
- Programmable independent heating, ventilation and cooling blower speeds
- Discharge Air Heating Control

CONTROL SYSTEM

- Economizer Control Options (See Economizer / Exhaust Air / Outdoor Air sections)
- Exhaust Fan Control Modes for fresh air damper position
- Configurable Morning Warm-up
- Night Setback Mode
- Fresh Air Tempering for Improved Ventilation
- Demand Control Ventilation
- Low Ambient Controls for operation down to 0°F
- Two Defrost Control Methods (demand and timed - heat pumps only)

Component Protection / Unit Safeguards:

- Compressor Time-Off Delay
- Adjustable Blower On/Off Delay
- Return Air Temperature Limit Control
- Safety Switch Input allows Controller to respond to a external safety switch trip
- Service Relay Output
- Thermostat Bounce Delay
- Smoke Alarm Mode has four choices (unit off, positive pressure, negative pressure, purge)
- "Strike Three" Protection
- Gas Valve Time Delay Between First and Second Stage
- Minimum Compressor Run Time

Control Methods / Interfaces:

- DDC and 24V Thermostat
- BACnet MS/TP and IP
- LONTalk (Factory and Field Option)
- S-BUS
- Zone Temperature Sensor Input
- Dehumidistat and Humidity Sensor Inputs
- Indoor Air Quality Inputs (2)
- Built-in Control Parameter Defaults
- Permanent Diagnostic Code Storage
- Field Adjustable Control Parameters (Over 200 settings)
- Multiple Configurable Digital Inputs
- LED Indicators

Intelli-Guide™ 2.0 Control System features vary with the type of rooftop unit in which the control is installed.

INTELLI-GUIDE™ 2.0 CONTROL SYSTEM (continued)

Controls Options

Factory or Field Installed

Dirty Filter Switch

- Senses static pressure increase and issues alarm if necessary
-

CONTROL SYSTEM

ECONOMIZER

- 12 • Economizer operation is set and controlled by the Intelli-Guide™ 2.0 Unit Controller
- Simple plug-in connections from economizer to unit controller for easy installation
- All E-Series™ rooftop units are equipped with factory installed CEC Title 24 approved sensors for outside, return and discharge air temperature monitoring

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

Factory or Field Installed

High Performance Economizer

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

NOTE - See Power Exhaust Fan section for additional requirements.

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

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

- Demand Control Ventilation (DCV) ready using optional CO₂ sensors.
- Horizontal Barometric Dampers are required for horizontal Economizer applications and must be ordered separately.
- Linked damper action
- High torque 24-volt fully-modulating spring return damper motor
- Return air and outdoor air dampers
- Plug-in connections to unit

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 Intelli-Guide™ 2.0 Unit Controller compares outdoor air and return air setpoints and activates the economizer when the outdoor air temperature is below the configured setpoint and cooler than return air

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

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

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

Global Control

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

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

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

OPTIONS / ACCESSORIES

Field Installed

Outdoor Air CFM Control

- Maintains constant outdoor air volume levels on the supply air fan and varying unit airflows
- References a velocity sensor located in the rooftop unit outdoor air section
- Intelli-Guide™ 2.0 Unit Controller changes the economizer position to help minimize the effect of supply fan speed changes on outdoor air volume levels
- Setpoint for outdoor air volume is established by field testing

NOTE - Not available with Demand Control Ventilation (CO₂ Sensor) or Building Pressure Control.

Building Pressure Control

- Maintains constant building pressure level
- Using differential pressure information between the outdoor air and the building air, the Intelli-Guide™ 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

EXHAUST

Factory or Field Installed

Power Exhaust Fan

- Installs internal to unit for downflow applications only 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 blades
- One 1/3 hp motor

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

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

OUTDOOR AIR

Factory or Field Installed

Outdoor Air Damper

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

NOTE - Manual Outdoor Air Damper is a field installed option only

OPTIONS / ACCESSORIES

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)

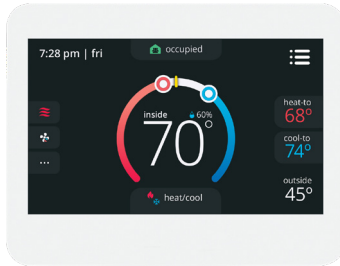
- White powder coat finish on diffuser face and grilles
- Insulated UL listed duct liner
- Diffuser box has collars for duct connection
- Step-down diffusers have double deflection blades
- Flush diffusers have fixed blades
- Provisions for suspending
- Internally sealed to prevent recirculation
- Removable 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

OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

CS8500 Commercial 7-Day Programmable Thermostat



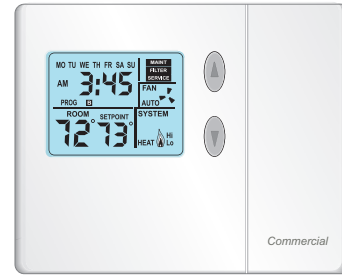
- Fully Communicating Sensor
- Full Color Touchscreen Interface
- Variable Speed System Control (On Compatible Units)
- Up To 4 Heat / 4 Cool
- Built-In Sensors For Temperature, Humidity And Optional CO₂
- Remote Sensor Options For Occupancy, Temperature
- BACnet Capable Options
- 5-2 or 7-Day Scheduling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

CS7500 Commercial 7-Day Programmable Thermostat



- Premium Universal Thermostat
- Full Color Touchscreen Interface
- Up To 4 Heat / 3 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

CS3000 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

OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

| Description | Catalog No. |
|--|--|
| CS8500 Commercial 7 Day Programmable Thermostat | |
| CS8500 7-Day Thermostat | No CO ₂ Sensing 24K55 |
| | With CO ₂ Sensing 24K53 |
| Sensors/Accessories | ¹ Remote non-adjustable wall-mount 10k 47W37 |
| | ¹ Remote non-adjustable wall-mount 11k 94L61 |
| Sysbus Network Cable (Yellow) for CS8500 and LCS-5030 Wired Room Sensor | |
| Twisted pair 100% shielded communication cable, Red and Black | 500 ft. box 27M19 |
| 22 AWG, yellow jacket, rated at 75°C, 300V, Plenum rated | 1000 ft. box 94L63 |
| Insulation - Low smoke PVC, NEC, CMP | 2500 ft. roll 68M25 |
| CS7500 Commercial 7-Day Programmable Thermostat | |
| CS7500 7-Day Thermostat | 24K41 |
| 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 |
| CS3000 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 |
| Universal Thermostat Guard with Lock (clear) | |
| | Inside Dimensions (H x W x D) 5-7/8 x 8-3/8 x 3 in. 39P21 |

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

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

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

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

SEQUENCE OF OPERATION

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.

NOTE: 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

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

Y3 Demand:

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

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

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

Y1 Demand:

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

Y2 Demand:

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

SEQUENCE OF OPERATION

Heating Mode: Thermostat or Zone Sensor (Up to 2 stages W1, W2)

NOTE - Reversing valve (L1) is de-energized in heating mode.

NOTE - No Mechanical Heating is allowed during Gas Heat operation.

W1 Demand:

A first-stage heating demand (W1) will activate the Intelli-Guide™ 2.0 Unit Controller to check the Outdoor Air Temperature and Balance Point (default is 35°F). User adjustable from 10°F to 76°F.

If Outdoor Air Temperature is more than the Balance Point the controller will enable Mechanical Heating.

Mechanical Heating - Compressor operates at full load, reversing valve is de-energized, outdoor fan operates on high speed and supply fan operates at Heating Speed.

If Outdoor Air Temperature is less than the Balance Point the controller will lock out Mechanical Heating and will enable gas heat only. Gas valve is open on stage 2 and supply fan operates at Heating Speed.

W2 Demand:

Mechanical Heating is disabled and High Gas Heating is enabled to meet the heating demand.

Defrost Mode

Coil Sensor (RT48) and Ambient Sensor (RT17) provides input to the Intelli-Guide™ 2.0 Unit Controller to initiate a defrost cycle if needed.

Coil sensor is located on a return bend on the front of the outdoor coil.

Ambient sensor is located on the inside of the corner mullion on the back of the outdoor coil section.

If the coil sensor measures a temperature below 35°F during mechanical heating mode, defrost logic is enabled. The system will constantly monitor coil and ambient temperatures and will initiate a defrost cycle if the controller determines that the target temperature difference between the coil and ambient temperature has been satisfied, or when the accumulated run time with coil temperature below 35°F reaches 6 hours.

If the ambient sensor fails, or the circuit is in uncalibrated state, the controller will switch to time/temperature defrost operation.

Low gas heating is energized during a defrost cycle to maintain discharge air temperature.

OPTIONS / ACCESSORIES

| Item | Catalog Number | Unit Model Number | | | | |
|--|---|-------------------|-----|-----|-----|----|
| | | 024 | 036 | 048 | 060 | |
| COOLING SYSTEM | | | | | | |
| Condensate Drain Trap | PVC | 22H54 | X | X | X | X |
| | Copper | 76W27 | X | X | X | X |
| Drain Pan Overflow Switch | | 21Z07 | OX | OX | OX | OX |
| HEATING SYSTEM | | | | | | |
| Bottom Gas Piping Kit | | 19W50 | X | X | X | X |
| Combustion Air Intake Extensions | | 19W51 | X | X | X | X |
| Gas Heat (Low NOx) Input | Standard Two-Stage- 53/65 kBtuh input | Factory | O | O | O | O |
| | Medium Two-Stage - 81/108 kBtuh input | Factory | | O | O | O |
| | High Two-Stage - 113/150 kBtuh input | Factory | | | O | O |
| Low Temperature Vestibule Heater | 208/230V-1 or 3ph | 21Z17 | X | X | X | X |
| | 460V-3ph | 21Z18 | | X | X | X |
| | 575V-3ph | 21Z19 | | X | X | X |
| LPG/Propane Conversion Kits | For two-stage standard models | 21Z24 | X | X | X | X |
| | For two-stage medium and high models | 21Z23 | X | X | X | X |
| Stainless Steel Heat Exchanger | | Factory | O | O | O | O |
| Vertical Vent Extension | | 31W62 | X | X | X | X |
| BLOWER - SUPPLY AIR | | | | | | |
| Motors - Standard Static (All voltages) | Direct Drive ECM Blower - 0.50 hp | Factory | O | O | | |
| | 1.0 hp | Factory | | | O | O |
| Motors - High Static (3 phase only) | E-Direct™ Direct Drive ECM Blower System - 1.5 hp | Factory | | O | O | O |
| CABINET | | | | | | |
| Combination Coil/Hail Guards | | 13T03 | OX | OX | OX | OX |
| Corrosion Protection (outdoor) | | Factory | O | O | O | O |
| CONTROLS | | | | | | |
| Blower Proving Switch | | 21Z10 | OX | OX | OX | OX |
| Commercial Controls | CPC Einstein Integration | Factory | O | O | O | O |
| | LonTalk® Module | 54W27 | OX | OX | OX | OX |
| | Novar® LSE | Factory | O | O | O | O |
| Dirty Filter Switch | | 53W66 | OX | OX | OX | OX |
| Smoke Detector - Supply or Return (Power board and one sensor) | | 21Z11 | OX | OX | OX | OX |
| Smoke Detector - Supply and Return (Power board and two sensors) | | 21Z12 | OX | OX | OX | OX |

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

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

O = Configure To Order (Factory Installed)

X = Field Installed

OPTIONS / ACCESSORIES

| Item | Catalog Number | Unit Model Number | | | | |
|---|---|-------------------|-----|-----|-----|----|
| | | 024 | 036 | 048 | 060 | |
| ELECTRICAL | | | | | | |
| Voltage | 208/230V - 1 phase | Factory | O | O | O | O |
| 60 Hz | 208/230V - 3 phase | Factory | | O | O | O |
| | 460V - 3 phase | Factory | | O | O | O |
| | 575V - 3 phase | Factory | | O | O | O |
| HACR Circuit Breakers | | Factory | O | O | O | O |
| ¹ Short-Circuit Current Rating (SCCR) of 100kA (includes Phase/Voltage Detection) | | Factory | O | O | O | O |
| Disconnect Switch | 80 amp | 22A25 | O | O | O | O |
| GFI Service Outlets | 15 amp non-powered, field-wired (208/230V, 460V only) | 74M70 | X | X | X | X |
| | ² 20 amp non-powered, field-wired (208/230V, 460V, 575V) | 67E01 | X | X | X | X |
| Weatherproof Cover for GFI | | 10C89 | X | X | X | X |
| Phase/Voltage Detection - 3 Phase Models Only | | Factory | | O | O | O |
| ECONOMIZER | | | | | | |
| High Performance Economizer With Outdoor Air Hood (Sensible Control) (Approved for California Title 24 Building Standards / AMCA Class 1A Certified) | | | | | | |
| High Performance Economizer - Includes Barometric Relief Dampers and Combination Hood | | 20H48 | OX | OX | OX | OX |
| High Performance Economizer - No Exhaust Option | | Factory | O | O | O | O |
| Economizer Accessories | | | | | | |
| Horizontal Economizer Conversion Kit | | 17W45 | X | X | X | X |
| Economizer Controls (Not for Title 24) | | | | | | |
| Differential Enthalpy | Order 2 | 21Z09 | OX | OX | OX | OX |
| Sensible Control | Sensor is Furnished | Factory | O | O | O | O |
| Outdoor Air CFM Control | | 13J76 | X | X | X | X |
| Single Enthalpy | | 21Z09 | OX | OX | OX | OX |
| Global Control | Sensor Field Provided | Factory | O | O | O | O |
| Building Pressure Control | | 13J77 | X | X | X | X |
| POWER EXHAUST FAN | | | | | | |
| Standard Static | 208/230V-1 or 3ph | 21Z13 | OX | OX | OX | OX |
| <i>NOTE - Factory or Field installed Power Exhaust Fan requires "Barometric Relief Dampers for Power Exhaust Kit" for field installation. See below.</i> | 460V-3ph | 21Z14 | | OX | OX | OX |
| | 575V-3ph | 21Z15 | | OX | OX | OX |
| BAROMETRIC RELIEF | | | | | | |
| ³ Barometric Relief Dampers for Power Exhaust Kit | | 21Z21 | X | X | X | X |
| ⁴ Horizontal Barometric Relief Dampers With Exhaust Hood | | 19F01 | X | X | X | X |
| OUTDOOR AIR | | | | | | |
| Outdoor Air Dampers With Outdoor Air Hood | | | | | | |
| Motorized | | 15D17 | OX | OX | OX | OX |
| Manual | | 15D18 | X | X | X | X |

¹ Disconnect Switch is furnished and factory installed with High SCCR option.

² Canada requires a minimum 20 amp circuit. Select 20 amp, non-powered, field wired GFI.

³ Required when Economizer is factory installed with factory installed Power Exhaust Fan option.

⁴ Required when Economizer is configured for horizontal airflow.

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

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

O = Configure To Order (Factory Installed)

X = Field Installed

OPTIONS / ACCESSORIES

| Item | Catalog Number | Unit Model Number | | | | |
|--|---------------------------|-------------------|-----|-----|-----|----|
| | | 024 | 036 | 048 | 060 | |
| INDOOR AIR QUALITY | | | | | | |
| Air Filters | | | | | | |
| Healthy Climate® High Efficiency Air Filters 20 x 20 x 2 in. | MERV 8 (Order 4) | 54W21 | OX | OX | OX | OX |
| | MERV 13 (Order 4) | 52W39 | OX | OX | OX | OX |
| Replaceable Media Filter With Metal Mesh Frame (includes non-pleated filter media) | 20 x 20 x 2 in. (Order 4) | 44N60 | X | X | X | X |
| Indoor Air Quality (CO₂) Sensors | | | | | | |
| Sensor - Wall-mount, off-white plastic cover with LCD display | | 77N39 | X | X | X | X |
| Sensor - Wall-mount, off-white plastic cover, no display | | 23V86 | X | X | X | X |
| Sensor - Black plastic case with LCD display, rated for plenum mounting | | 87N52 | X | X | X | X |
| Sensor - Wall-mount, black plastic case, no display, rated for plenum mounting | | 87N54 | X | X | X | X |
| CO ₂ Sensor Duct Mounting Kit - for downflow applications | | 85L43 | X | X | X | X |
| Aspiration Box - for duct mounting non-plenum rated CO ₂ sensors (77N39) | | 90N43 | X | X | X | X |
| ROOF CURBS | | | | | | |
| Hybrid Roof Curbs, Downflow | | | | | | |
| 8 in. height | | 11F50 | X | X | X | X |
| 14 in. height | | 11F51 | X | X | X | X |
| 18 in. height | | 11F52 | X | X | X | X |
| 24 in. height | | 11F53 | X | X | X | X |
| Adjustable Pitched Curb | | | | | | |
| 14 in. height | | 43W27 | X | X | X | X |
| Transition Curb | | | | | | |
| CEILING DIFFUSERS | | | | | | |
| Step-Down - Order one | RTD11-95S | 13K61 | X | X | X | X |
| Flush - Order one | FD11-95S | 13K56 | X | X | X | X |
| Transitions (Supply and Return) - Order one | T1TRAN20N-1 | 17W54 | X | X | X | X |

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

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

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

O = Configure To Order (Factory Installed)

X = Field Installed

| SPECIFICATIONS | | | | UNIT | | | |
|--|---|---|---|------------------|------------------|---|--------|
| General Data | | Nominal Tonnage | 2 Ton | 3 Ton | 4 Ton | 5 Ton | |
| Model Number | | | LDT024H4E | LDT036H4E | LDT048H4E | LDT060H4E | |
| Efficiency Type | | | High | High | High | High | |
| Blower Type | | | ECM Direct Drive | ECM Direct Drive | ECM Direct Drive | ECM Direct Drive | |
| Cooling Performance | Gross Cooling Capacity (Btuh) | | 25,000 | 37,000 | 46,800 | 58,000 | |
| | ¹ Net Cooling Capacity (Btuh) 3ph | | --- | 35,000 | 44,500 | 55,000 | |
| | ¹ AHRI Rated Air Flow (cfm-high/low) 3ph | | --- | 1400/935 | 1400/1100 | 1800/1300 | |
| | ¹ SEER (Btuh/Watt) 3ph | | --- | 16.1 | 16.1 | 16.1 | |
| | ¹ EER (Btuh/Watt) 3ph | | --- | 12.3 | 12.8 | 12.2 | |
| | Total Unit Power (kW) 3ph | | --- | 2.8 | 3.5 | 4.5 | |
| | ¹ Net Cooling Capacity (Btuh) 1ph | | 23,600 | 35,000 | 44,500 | 55,000 | |
| | ¹ AHRI Rated Air Flow (cfm-high/low) 1ph | | 1050 | 1400/935 | 1400/1100 | 1800/1300 | |
| | ¹ SEER2 (Btuh/Watt) 1ph | | 15.4 | 15.2 | 15.6 | 15.2 | |
| | ¹ EER2 (Btuh/Watt) 1ph | | 11.4 | 11.4 | 12.0 | 11.4 | |
| | Total Unit Power (kW) 1ph | | 2.1 | 3.1 | 3.7 | 4.8 | |
| | Heating Performance | ¹ Total High Heating Capacity - Btuh | | 23,000 | 35,000 | 44,000 | 55,000 |
| | | ¹ AHRI Rated Air Flow (cfm) 3ph | | 1050 | 1400 | 1400 | 1900 |
| | | ¹ HSPF (Region IV) - 3ph | | --- | 8.5 | 8.5 | 8.5 |
| COP | | 3.6 | 3.8 | 3.9 | 3.7 | | |
| Total Unit Power (kW) | | 1.9 | 2.9 | 3.6 | 4.3 | | |
| ¹ HSPF2 (Region IV) - 1ph | | 7.3 | 7.2 | 7.2 | 7.2 | | |
| ¹ Total Low Heating Capacity - Btuh | | 17,000 | 19,000 | 26,000 | 30,000 | | |
| COP | | 2.1 | 2.3 | 2.4 | 2.3 | | |
| Total Unit Power (kW) | | 2.4 | 2.6 | 3.3 | 3.8 | | |
| ² Sound Rating Number (SRN) (dBA) | | 75 | 75 | 82 | 82 | | |
| Refrigerant | Type | | R-410A | R-410A | R-410A | R-410A | |
| | Charge Furnished | | 17 lbs. 14 oz. | 18 lbs. 12 oz. | 14 lbs. 0 oz. | 17 lbs. 1 oz. | |
| Gas Heating Options Available | | See page 5 | | | | | |
| Compressor Type (one per unit) | | Two-Stage Scroll | Two-Stage Scroll | Two-Stage Scroll | Two-Stage Scroll | | |
| Outdoor Coil | Net face area (total) - sq. ft. | | 19.3 | 19.3 | 19.3 | 19.3 | |
| | Tube diameter - in. | | 3/8 | 3/8 | 3/8 | 3/8 | |
| | Number of rows | | 2 | 2 | 2 | 3 | |
| | Fins per inch | | 20 | 20 | 20 | 20 | |
| Outdoor Coil Fans | Motor - (No.) horsepower | | (1) 1/3 (ECM) | (1) 1/3 (ECM) | (1) 1/3 (ECM) | (1) 1/3 (ECM) | |
| | Motor rpm | | 730 | 850/575 | 850/700 | 945/725 | |
| | Total Motor watts | | 130 | 70 - 240 | 140 - 240 | 140 - 310 | |
| | Diameter - (No.) in. and no. of blades | | (1) 24 | (1) 24 | (1) 24 | (1) 24 | |
| | Total air volume - cfm | | 3500 | 4060/2740 | 4060/3330 | 4400/3550 | |
| Indoor Coil | Net face area (total) - sq. ft. | | 9.7 | 9.7 | 9.7 | 9.7 | |
| | Tube diameter - in. | | 3/8 | 3/8 | 3/8 | 3/8 | |
| | Number of rows | | 3 | 3 | 3 | 4 | |
| | Fins per inch | | 14 | 14 | 14 | 14 | |
| | Drain connection (Number) and size - in. | | (1) 1 NPT | (1) 1 NPT | (1) 1 NPT | (1) 1 NPT | |
| | Expansion device type | | Balanced Port Thermostatic Expansion Valve,removable element head | | | | |
| | Indoor Blower | Standard Blower Type | | Direct Drive ECM | | | |
| Static Blade type | | Forward Curved | | | | | |
| (All Voltages) Nominal motor HP | | 0.50 | 0.50 | 1 | 1 | | |
| Blower wheel D x W - in. | | (1) 10 X 10 | (1) 10 X 10 | (1) 11 X 10 | (1) 11 X 10 | | |
| High Blower Type | | E-Direct™ Direct Drive ECM | | | | | |
| Static Blade type | | Backward Curved | | | | | |
| (3ph Only) Nominal motor HP | | --- | 1.5 | 1.5 | 1.5 | | |
| Blower wheel D x W - in. | | --- | (1) 14 X 5 | (1) 14 X 5 | (1) 14 X 5 | | |
| Filters | Type of filter | | MERV 4, Disposable | | | | |
| | Number and size | | (4) 20 x 20 x 2 | | | | |
| Electrical characteristics | | 208/230V - 60 Hz - 1 phase | 208/230V - 60 Hz - 1 phase | | | 208/230V, 460V, or 575V - 60 Hz - 3 phase | |

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

¹ AHRI Certified to AHRI Standard 210/240 (2-5 ton):

Cooling Ratings - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.

High Temperature Heating Ratings - 47°F db/43°F wb outdoor air temperature and 70°F entering indoor coil air.

Low Temperature Heating Ratings - 17°F db/15°F wb outdoor air temperature and 70°F entering indoor coil air.

SPECIFICATIONS

LOW NOX GAS HEAT

| Model No. | | 024, 036, 048, 060 | 036, 048, 060 | 036, 048, 060 | 048, 060 |
|---|---------------------|--------------------------|-------------------|------------------|----------------|
| Heat Input Type | | Standard (2 Stage) | | Medium (2 Stage) | High (2 Stage) |
| Input Btuh | 1st Stage | 53,000 | | 81,000 | 113,000 |
| | 2nd Stage | 65,000 | | 108,000 | 150,000 |
| Output Btuh | 1st Stage | 43,000 | | 66,000 | 92,000 |
| | 2nd Stage | 52,000 | | 87,000 | 121,000 |
| Temperature Rise Range - °F | 1st stage | 5-35 | | 25 - 55 | 30 - 60 |
| | 2nd Stage | 35-65 (0.5 and 1 hp) | 15-45 (1.5 hp) | 30 - 70 | 45 - 75 |
| Minimum air volume - cfm | | 960 | 1075 | 1150 | 1500 |
| ¹ AFUE (Single Phase) | | 81% | | 81% | 81% |
| ² Thermal Efficiency (Three Phase) | | 81% | | 81% | 81% |
| Gas Supply Connections | | 1/2 in. NPT | | | |
| Recommended Gas Supply Pressure - Nat. / LPG | | 7 in. w.g. / 11 in. w.g. | | | |
| Gas Supply Pressure Range | Min./Max. (Natural) | 4.5 - 10.5 in. w.g. | | | |
| | Min./Max. (LPG) | 10.8 - 13.5 in. w.g. | | | |

¹ Annual Fuel Utilization Efficiency based on U.S. DOE test procedures and FTC labeling regulations.

² Thermal Efficiency at full input.

HIGH ALTITUDE DERATE

NOTE - Units may be installed at altitudes up to 2000 feet above sea level without any modifications.

At altitudes above 2000 feet units must be derated to match gas manifold pressures shown in table below.

At altitudes above 4500 feet unit must be derated 2% for each 1000 feet above sea level.

NOTE - This is the only permissible derate for these units.

Refer to the Installation Instructions for more detailed information.

| Heat Input Type | Altitude Feet | Gas Manifold Pressure in. w.g. | | Input Rate (Btuh) |
|--------------------|---------------|--------------------------------|--------------|-------------------|
| | | Natural Gas | LPG/ Propane | |
| Standard (2 stage) | 2001 - 4500 | 1.6 / 3.4 | 4.4 / 9.7 | 51,000 / 62,000 |
| Medium (2 stage) | 2001 - 4500 | 1.6 / 3.4 | 4.4 / 9.7 | 78,000 / 104,000 |
| High (2 stage) | 2001 - 4500 | 1.6 / 3.4 | 4.4 / 9.7 | 108,000 / 144,000 |

COOLING / HEATING RATINGS

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

2 TON COOLING LDT024H4E (FULL LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|--|--|--|--|
| | | 65°F | | | | | | 75°F | | | | | | 85°F | | | | | | 95°F | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | | | | | |
| 63°F | 640 | 25.5 | 1.14 | .69 | .82 | .94 | 23.5 | 1.30 | .69 | .83 | .97 | 21.4 | 1.50 | .69 | .84 | .99 | 19.3 | 1.74 | .70 | .87 | 1.00 | | | | |
| | 800 | 27.5 | 1.13 | .74 | .89 | 1.00 | 25.3 | 1.29 | .75 | .90 | 1.00 | 23.2 | 1.49 | .76 | .93 | 1.00 | 20.9 | 1.73 | .77 | .96 | 1.00 | | | | |
| | 960 | 28.9 | 1.12 | .79 | .95 | 1.00 | 26.7 | 1.28 | .80 | .98 | 1.00 | 24.6 | 1.48 | .81 | 1.00 | 1.00 | 22.5 | 1.72 | .84 | 1.00 | 1.00 | | | | |
| 67°F | 640 | 27.5 | 1.13 | .55 | .67 | .79 | 25.5 | 1.29 | .54 | .67 | .80 | 23.3 | 1.49 | .53 | .67 | .81 | 21.2 | 1.73 | .51 | .67 | .83 | | | | |
| | 800 | 29.5 | 1.11 | .58 | .72 | .85 | 27.3 | 1.28 | .58 | .73 | .87 | 25.2 | 1.48 | .57 | .74 | .89 | 22.8 | 1.72 | .57 | .75 | .92 | | | | |
| | 960 | 31.0 | 1.10 | .61 | .77 | .92 | 28.8 | 1.27 | .61 | .78 | .94 | 26.4 | 1.47 | .61 | .79 | .97 | 24.0 | 1.71 | .61 | .82 | 1.00 | | | | |
| 71°F | 640 | 29.6 | 1.11 | .42 | .54 | .65 | 27.4 | 1.28 | .40 | .53 | .65 | 25.2 | 1.48 | .38 | .52 | .65 | 23.0 | 1.72 | .36 | .51 | .65 | | | | |
| | 800 | 31.6 | 1.10 | .44 | .57 | .70 | 29.4 | 1.26 | .42 | .57 | .71 | 27.1 | 1.47 | .40 | .56 | .71 | 24.8 | 1.71 | .39 | .56 | .73 | | | | |
| | 960 | 33.1 | 1.09 | .45 | .60 | .75 | 30.8 | 1.25 | .44 | .61 | .76 | 28.5 | 1.46 | .42 | .60 | .77 | 26.0 | 1.70 | .41 | .61 | .79 | | | | |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
| | | 105°F | | | | | 115°F | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 640 | 17.1 | 2.02 | .70 | .90 | 1.00 | 14.7 | 2.33 | .72 | .94 | 1.00 |
| | 800 | 18.6 | 2.01 | .78 | 1.00 | 1.00 | 16.4 | 2.32 | .81 | 1.00 | 1.00 |
| | 960 | 20.4 | 2.00 | .87 | 1.00 | 1.00 | 18.1 | 2.31 | .91 | 1.00 | 1.00 |
| 67°F | 640 | 18.8 | 2.01 | .50 | .68 | .85 | 16.4 | 2.32 | .49 | .69 | .89 |
| | 800 | 20.4 | 2.00 | .56 | .76 | .95 | 17.8 | 2.32 | .55 | .79 | 1.00 |
| | 960 | 21.5 | 1.99 | .61 | .84 | 1.00 | 18.7 | 2.31 | .61 | .88 | 1.00 |
| 71°F | 640 | 20.7 | 2.00 | .33 | .50 | .66 | 18.2 | 2.31 | .30 | .49 | .67 |
| | 800 | 22.2 | 1.99 | .37 | .56 | .74 | 19.5 | 2.31 | .33 | .55 | .76 |
| | 960 | 23.3 | 1.99 | .39 | .61 | .82 | 20.5 | 2.30 | .37 | .61 | .85 |

2 TON HEATING LDT024H4E

| Indoor Coil Air Volume 70°F Dry Bulb cfm | Air Temperature Entering Outdoor Coil | | | | | | | | | |
|--|---------------------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|
| | 65°F | | 45°F | | 25°F | | 5°F | | -15°F | |
| | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input |
| | | | | | | | | | | |
| 640 | 36.4 | 2.98 | 21.6 | 1.92 | 19.8 | 2.72 | 12.7 | 2.40 | 6.2 | 1.84 |
| 800 | 36.9 | 2.80 | 22.0 | 1.75 | 20.7 | 2.41 | 13.5 | 2.09 | 7.1 | 1.53 |
| 960 | 37.3 | 2.70 | 22.4 | 1.64 | 21.1 | 2.22 | 14.0 | 1.89 | 7.5 | 1.33 |

COOLING / HEATING RATINGS

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

3 TON COOLING LDT036H4E (PART LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
| | | 65°F | | | | | 75°F | | | | | 85°F | | | | | 95°F | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 640 | 26.4 | 1.17 | .70 | .83 | .95 | 24.3 | 1.34 | .70 | .84 | .97 | 22.2 | 1.54 | .70 | .85 | 1.00 | 20.0 | 1.79 | .71 | .88 | 1.00 |
| | 800 | 28.3 | 1.16 | .75 | .89 | 1.00 | 26.1 | 1.33 | .75 | .91 | 1.00 | 23.9 | 1.54 | .76 | .94 | 1.00 | 21.7 | 1.78 | .78 | .97 | 1.00 |
| | 960 | 29.8 | 1.15 | .80 | .96 | 1.00 | 27.6 | 1.32 | .81 | .98 | 1.00 | 25.4 | 1.53 | .83 | 1.00 | 1.00 | 23.4 | 1.78 | .85 | 1.00 | 1.00 |
| 67°F | 640 | 28.4 | 1.16 | .55 | .67 | .79 | 26.3 | 1.33 | .54 | .68 | .80 | 24.1 | 1.54 | .53 | .68 | .82 | 21.9 | 1.78 | .52 | .68 | .84 |
| | 800 | 30.5 | 1.15 | .58 | .73 | .86 | 28.3 | 1.32 | .58 | .73 | .88 | 26.0 | 1.53 | .58 | .74 | .90 | 23.6 | 1.78 | .57 | .75 | .93 |
| | 960 | 32.0 | 1.14 | .62 | .78 | .93 | 29.7 | 1.31 | .62 | .79 | .95 | 27.2 | 1.53 | .61 | .80 | .98 | 24.8 | 1.77 | .62 | .83 | 1.00 |
| 71°F | 640 | 30.5 | 1.15 | .42 | .54 | .65 | 28.4 | 1.32 | .40 | .53 | .65 | 26.1 | 1.53 | .38 | .52 | .65 | 23.8 | 1.78 | .36 | .51 | .66 |
| | 800 | 32.7 | 1.14 | .43 | .57 | .70 | 30.3 | 1.31 | .42 | .57 | .71 | 28.0 | 1.53 | .41 | .57 | .72 | 25.6 | 1.77 | .39 | .57 | .73 |
| | 960 | 34.2 | 1.13 | .45 | .61 | .76 | 31.8 | 1.31 | .44 | .61 | .77 | 29.3 | 1.52 | .42 | .61 | .78 | 26.7 | 1.77 | .41 | .61 | .80 |

3 TON COOLING LDT036H4E (FULL LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
| | | 85°F | | | | | 95°F | | | | | 105°F | | | | | 115°F | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 960 | 33.8 | 2.19 | .72 | .86 | 1.00 | 31.1 | 2.46 | .73 | .89 | 1.00 | 28.3 | 2.78 | .74 | .92 | 1.00 | 25.2 | 3.14 | .76 | .96 | 1.00 |
| | 1200 | 35.9 | 2.20 | .78 | .95 | 1.00 | 33.1 | 2.48 | .80 | .98 | 1.00 | 30.3 | 2.79 | .81 | 1.00 | 1.00 | 27.5 | 3.15 | .84 | 1.00 | 1.00 |
| | 1440 | 37.8 | 2.22 | .84 | 1.00 | 1.00 | 35.3 | 2.49 | .86 | 1.00 | 1.00 | 32.5 | 2.81 | .89 | 1.00 | 1.00 | 29.4 | 3.17 | .93 | 1.00 | 1.00 |
| 67°F | 960 | 36.1 | 2.20 | .55 | .70 | .83 | 33.3 | 2.47 | .55 | .70 | .85 | 30.5 | 2.79 | .55 | .72 | .88 | 27.4 | 3.16 | .54 | .73 | .92 |
| | 1200 | 38.3 | 2.22 | .59 | .76 | .92 | 35.4 | 2.49 | .60 | .78 | .94 | 32.3 | 2.80 | .60 | .79 | .98 | 29.0 | 3.17 | .60 | .82 | 1.00 |
| | 1440 | 39.9 | 2.24 | .63 | .82 | .99 | 36.9 | 2.50 | .64 | .84 | 1.00 | 33.6 | 2.81 | .65 | .87 | 1.00 | 30.1 | 3.17 | .66 | .91 | 1.00 |
| 71°F | 960 | 38.6 | 2.22 | .41 | .54 | .67 | 35.7 | 2.49 | .40 | .54 | .68 | 32.7 | 2.81 | .38 | .54 | .70 | 29.5 | 3.17 | .36 | .54 | .71 |
| | 1200 | 40.8 | 2.24 | .43 | .59 | .74 | 37.8 | 2.51 | .42 | .59 | .76 | 34.6 | 2.82 | .41 | .59 | .77 | 31.0 | 3.17 | .39 | .60 | .80 |
| | 1440 | 42.4 | 2.26 | .44 | .63 | .80 | 39.1 | 2.52 | .44 | .64 | .82 | 35.9 | 2.83 | .43 | .65 | .85 | 32.2 | 3.18 | .42 | .66 | .89 |

3 TON HEATING LDT036H4E

| Indoor Coil Air Volume 70°F Dry Bulb cfm | Air Temperature Entering Outdoor Coil | | | | | | | | | |
|--|---------------------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|
| | 65°F | | 45°F | | 25°F | | 5°F | | -15°F | |
| | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input |
| | kBtuh | kW | kBtuh | kW | kBtuh | kW | kBtuh | kW | kBtuh | kW |
| 960 | 44.3 | 2.68 | 33.3 | 2.48 | 22.0 | 2.28 | 13.8 | 2.02 | 6.9 | 1.53 |
| 1200 | 45.1 | 2.50 | 34.1 | 2.30 | 22.8 | 2.10 | 14.6 | 1.84 | 7.7 | 1.35 |
| 1440 | 45.7 | 2.39 | 34.7 | 2.19 | 23.4 | 1.99 | 15.2 | 1.73 | 8.3 | 1.23 |

COOLING / HEATING RATINGS

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

4 TON COOLING LDT048H4E (PART LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|--|--|--|--|
| | | 65°F | | | | | | 75°F | | | | | | 85°F | | | | | | 95°F | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | | | | | |
| 63°F | 895 | 35.9 | 1.46 | .71 | .85 | .97 | 33.5 | 1.71 | .71 | .85 | .99 | 30.9 | 2.00 | .72 | .88 | 1.00 | 28.2 | 2.34 | .74 | .90 | 1.00 | | | | |
| | 1120 | 38.3 | 1.45 | .76 | .91 | 1.00 | 35.7 | 1.70 | .77 | .94 | 1.00 | 33.0 | 1.99 | .79 | .96 | 1.00 | 30.2 | 2.32 | .81 | .99 | 1.00 | | | | |
| | 1345 | 40.1 | 1.43 | .81 | .98 | 1.00 | 37.6 | 1.69 | .83 | 1.00 | 1.00 | 35.0 | 1.97 | .85 | 1.00 | 1.00 | 32.3 | 2.31 | .88 | 1.00 | 1.00 | | | | |
| 67°F | 895 | 38.4 | 1.45 | .56 | .69 | .81 | 35.9 | 1.70 | .56 | .69 | .82 | 33.3 | 1.99 | .55 | .70 | .84 | 30.4 | 2.32 | .55 | .71 | .87 | | | | |
| | 1120 | 40.9 | 1.43 | .59 | .74 | .88 | 38.3 | 1.68 | .60 | .75 | .90 | 35.4 | 1.97 | .60 | .77 | .92 | 32.3 | 2.31 | .60 | .78 | .96 | | | | |
| | 1345 | 42.7 | 1.42 | .63 | .79 | .95 | 39.9 | 1.67 | .63 | .81 | .97 | 36.9 | 1.96 | .64 | .83 | 1.00 | 33.7 | 2.29 | .64 | .86 | 1.00 | | | | |
| 71°F | 895 | 41.0 | 1.43 | .43 | .55 | .67 | 38.4 | 1.68 | .42 | .55 | .67 | 35.6 | 1.97 | .40 | .54 | .68 | 32.7 | 2.31 | .39 | .54 | .69 | | | | |
| | 1120 | 43.5 | 1.41 | .45 | .59 | .72 | 40.7 | 1.66 | .44 | .59 | .73 | 37.8 | 1.96 | .43 | .59 | .75 | 34.6 | 2.29 | .41 | .60 | .76 | | | | |
| | 1345 | 45.3 | 1.40 | .46 | .62 | .77 | 42.4 | 1.65 | .45 | .63 | .79 | 39.3 | 1.94 | .44 | .63 | .81 | 36.0 | 2.27 | .44 | .64 | .84 | | | | |

4 TON COOLING LDT048H4E (FULL LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|-------|------|--|--|--|--|
| | | 85°F | | | | | | 95°F | | | | | | 105°F | | | | | | 115°F | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | | | | | |
| 63°F | 1280 | 45.1 | 2.77 | .73 | .88 | 1.00 | 41.9 | 3.12 | .74 | .90 | 1.00 | 38.4 | 3.52 | .76 | .93 | 1.00 | 34.7 | 3.99 | .78 | .97 | 1.00 | | | | |
| | 1600 | 47.9 | 2.78 | .79 | .96 | 1.00 | 44.5 | 3.14 | .81 | .99 | 1.00 | 40.9 | 3.54 | .83 | 1.00 | 1.00 | 37.5 | 4.01 | .86 | 1.00 | 1.00 | | | | |
| | 1920 | 50.3 | 2.80 | .85 | 1.00 | 1.00 | 47.1 | 3.15 | .87 | 1.00 | 1.00 | 43.7 | 3.56 | .90 | 1.00 | 1.00 | 39.8 | 4.02 | .94 | 1.00 | 1.00 | | | | |
| 67°F | 1280 | 48.0 | 2.78 | .56 | .71 | .84 | 44.7 | 3.14 | .56 | .72 | .86 | 41.1 | 3.54 | .57 | .73 | .89 | 37.4 | 4.01 | .57 | .75 | .93 | | | | |
| | 1600 | 50.8 | 2.80 | .61 | .77 | .93 | 47.3 | 3.15 | .61 | .79 | .96 | 43.4 | 3.56 | .62 | .81 | .99 | 39.2 | 4.02 | .63 | .84 | 1.00 | | | | |
| | 1920 | 52.8 | 2.81 | .65 | .83 | 1.00 | 48.9 | 3.16 | .65 | .85 | 1.00 | 45.0 | 3.57 | .66 | .88 | 1.00 | 40.7 | 4.03 | .68 | .92 | 1.00 | | | | |
| 71°F | 1280 | 51.1 | 2.80 | .42 | .55 | .68 | 47.6 | 3.16 | .41 | .56 | .70 | 43.9 | 3.56 | .40 | .56 | .71 | 39.9 | 4.03 | .39 | .57 | .73 | | | | |
| | 1600 | 53.9 | 2.82 | .44 | .60 | .75 | 50.1 | 3.17 | .43 | .60 | .77 | 46.1 | 3.58 | .42 | .61 | .79 | 41.7 | 4.04 | .42 | .62 | .82 | | | | |
| | 1920 | 55.9 | 2.83 | .45 | .64 | .81 | 51.9 | 3.18 | .45 | .65 | .83 | 47.7 | 3.59 | .45 | .66 | .86 | 43.2 | 4.05 | .44 | .68 | .90 | | | | |

4 TON HEATING LDT048H4E

| Indoor Coil Air Volume 70°F Dry Bulb cfm | Air Temperature Entering Outdoor Coil | | | | | | | | | |
|--|---------------------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|
| | 65°F | | 45°F | | 25°F | | 5°F | | -15°F | |
| | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input |
| | kBtuh | kW | kBtuh | kW | kBtuh | kW | kBtuh | kW | kBtuh | kW |
| 1280 | 54.5 | 3.14 | 42.1 | 2.95 | 29.4 | 2.76 | 18.9 | 2.47 | 9.3 | 1.85 |
| 1600 | 55.6 | 2.94 | 43.2 | 2.75 | 30.5 | 2.56 | 20.1 | 2.26 | 10.4 | 1.65 |
| 1920 | 56.8 | 2.80 | 44.4 | 2.62 | 31.7 | 2.43 | 21.3 | 2.13 | 11.6 | 1.51 |

COOLING / HEATING RATINGS

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

5 TON COOLING LDT060H4E (PART LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
| | | 65°F | | | | | 75°F | | | | | 85°F | | | | | 95°F | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 1080 | 42.8 | 1.91 | .71 | .84 | .97 | 40.4 | 2.20 | .71 | .85 | .99 | 37.8 | 2.53 | .72 | .87 | 1.00 | 34.8 | 2.91 | .73 | .89 | 1.00 |
| | 1350 | 45.4 | 1.88 | .76 | .91 | 1.00 | 43.0 | 2.17 | .77 | .93 | 1.00 | 40.1 | 2.50 | .79 | .96 | 1.00 | 37.1 | 2.88 | .80 | .99 | 1.00 |
| | 1620 | 47.6 | 1.86 | .81 | .98 | 1.00 | 45.0 | 2.15 | .82 | 1.00 | 1.00 | 42.3 | 2.48 | .84 | 1.00 | 1.00 | 39.6 | 2.85 | .87 | 1.00 | 1.00 |
| 67°F | 1080 | 46.1 | 1.88 | .56 | .68 | .81 | 43.5 | 2.17 | .56 | .69 | .82 | 40.7 | 2.50 | .56 | .70 | .83 | 37.8 | 2.87 | .56 | .71 | .86 |
| | 1350 | 48.8 | 1.85 | .59 | .73 | .87 | 46.1 | 2.14 | .59 | .75 | .89 | 43.3 | 2.47 | .60 | .76 | .92 | 39.8 | 2.84 | .60 | .78 | .95 |
| | 1620 | 50.8 | 1.83 | .62 | .79 | .94 | 48.0 | 2.12 | .63 | .80 | .97 | 44.8 | 2.45 | .63 | .82 | .99 | 41.5 | 2.83 | .65 | .84 | 1.00 |
| 71°F | 1080 | 49.4 | 1.85 | .43 | .55 | .66 | 46.7 | 2.14 | .42 | .54 | .67 | 43.9 | 2.46 | .41 | .54 | .67 | 40.7 | 2.83 | .41 | .55 | .69 |
| | 1350 | 52.3 | 1.82 | .44 | .58 | .71 | 49.4 | 2.11 | .44 | .58 | .72 | 46.3 | 2.43 | .43 | .59 | .73 | 43.1 | 2.81 | .43 | .60 | .75 |
| | 1620 | 54.4 | 1.80 | .46 | .61 | .76 | 51.3 | 2.09 | .45 | .62 | .78 | 48.1 | 2.41 | .45 | .62 | .80 | 44.5 | 2.78 | .45 | .63 | .82 |

5 TON COOLING LDT060H4E (FULL LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
| | | 85°F | | | | | 95°F | | | | | 105°F | | | | | 115°F | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 1650 | 58.5 | 3.52 | .73 | .88 | 1.00 | 54.2 | 3.95 | .74 | .91 | 1.00 | 49.7 | 4.46 | .76 | .94 | 1.00 | 45.0 | 5.04 | .78 | .97 | 1.00 |
| | 2000 | 61.3 | 3.54 | .78 | .96 | 1.00 | 57.0 | 3.98 | .81 | .99 | 1.00 | 52.4 | 4.49 | .83 | 1.00 | 1.00 | 48.1 | 5.07 | .85 | 1.00 | 1.00 |
| | 2400 | 64.4 | 3.57 | .85 | 1.00 | 1.00 | 60.4 | 4.02 | .87 | 1.00 | 1.00 | 56.0 | 4.53 | .89 | 1.00 | 1.00 | 51.2 | 5.11 | .94 | 1.00 | 1.00 |
| 67°F | 1650 | 62.8 | 3.56 | .56 | .71 | .85 | 58.3 | 3.99 | .56 | .72 | .87 | 53.5 | 4.50 | .57 | .73 | .90 | 48.5 | 5.08 | .57 | .76 | .94 |
| | 2000 | 65.6 | 3.59 | .60 | .76 | .92 | 61.0 | 4.03 | .60 | .78 | .95 | 56.0 | 4.53 | .61 | .80 | .98 | 50.8 | 5.11 | .62 | .83 | 1.00 |
| | 2400 | 68.2 | 3.61 | .64 | .83 | 1.00 | 63.2 | 4.05 | .64 | .85 | 1.00 | 58.1 | 4.55 | .65 | .87 | 1.00 | 52.4 | 5.12 | .67 | .91 | 1.00 |
| 71°F | 1650 | 67.2 | 3.60 | .41 | .55 | .69 | 62.7 | 4.04 | .41 | .55 | .70 | 57.7 | 4.55 | .40 | .56 | .71 | 52.5 | 5.13 | .39 | .56 | .73 |
| | 2000 | 70.2 | 3.63 | .43 | .59 | .74 | 65.4 | 4.07 | .43 | .60 | .76 | 60.2 | 4.57 | .42 | .61 | .78 | 54.5 | 5.15 | .41 | .61 | .81 |
| | 2400 | 72.6 | 3.66 | .45 | .63 | .80 | 67.5 | 4.10 | .45 | .64 | .83 | 61.8 | 4.60 | .44 | .65 | .85 | 56.2 | 5.17 | .44 | .67 | .89 |

5 TON HEATING LDT060H4E

| Indoor Coil Air Volume 70°F Dry Bulb cfm | Air Temperature Entering Outdoor Coil | | | | | | | | | |
|--|---------------------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|
| | 65°F | | 45°F | | 25°F | | 5°F | | -15°F | |
| | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input |
| | kBtuh | kW | kBtuh | kW | kBtuh | kW | kBtuh | kW | kBtuh | kW |
| 1650 | 72.8 | 3.89 | 55.4 | 3.62 | 37.1 | 3.34 | 25.1 | 2.96 | 12.3 | 2.22 |
| 2000 | 74.3 | 3.68 | 56.9 | 3.40 | 38.6 | 3.12 | 26.6 | 2.75 | 13.8 | 2.00 |
| 2400 | 76.5 | 3.52 | 59.0 | 3.25 | 40.7 | 2.97 | 28.7 | 2.59 | 15.9 | 1.85 |

0.5 HP | 3 ROW (024, 036)

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.).

Minimum Air Volume Required For Different Gas Heat Sizes:

Standard Heat - 960 cfm; Medium Heat - 1150 cfm; High Heat - 1500 cfm

See page 32 for wet coil and options/accessory air resistance data.

DOWNFLOW

| External Static Press. in. w.g. | Percentage of Total Motor Torque | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|----------------------------------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|
| | 20% | | | 30% | | | 40% | | | 50% | | | 60% | | | 70% | | | 80% | | | 90% | | | 100% | | |
| | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts |
| 0 | 819 | 47 | 403 | 1006 | 79 | 463 | 1192 | 111 | 523 | 1335 | 152 | 573 | 1477 | 193 | 622 | 1580 | 236 | 661 | 1682 | 279 | 699 | 1812 | 353 | 753 | 1876 | 400 | 783 |
| 0.1 | 723 | 48 | 485 | 919 | 82 | 539 | 1114 | 116 | 593 | 1264 | 159 | 637 | 1414 | 202 | 681 | 1522 | 246 | 715 | 1629 | 290 | 749 | 1767 | 365 | 797 | 1835 | 414 | 824 |
| 0.2 | 636 | 51 | 565 | 840 | 88 | 613 | 1044 | 124 | 660 | 1201 | 169 | 699 | 1357 | 213 | 738 | 1470 | 258 | 769 | 1582 | 303 | 799 | 1726 | 380 | 841 | 1797 | 429 | 865 |
| 0.3 | 557 | 57 | 641 | 769 | 96 | 683 | 981 | 134 | 725 | 1144 | 180 | 760 | 1306 | 226 | 794 | 1423 | 273 | 821 | 1540 | 319 | 848 | 1689 | 397 | 885 | 1761 | 446 | 906 |
| 0.4 | 485 | 65 | 713 | 704 | 106 | 750 | 923 | 146 | 787 | 1091 | 194 | 818 | 1259 | 241 | 848 | 1380 | 289 | 872 | 1500 | 336 | 895 | 1653 | 415 | 929 | 1725 | 463 | 948 |
| 0.5 | 418 | 73 | 783 | 644 | 116 | 815 | 870 | 158 | 846 | 1043 | 207 | 873 | 1215 | 256 | 900 | 1339 | 305 | 921 | 1462 | 353 | 942 | 1618 | 433 | 973 | 1689 | 481 | 991 |
| 0.6 | 355 | 82 | 849 | 587 | 127 | 876 | 819 | 171 | 903 | 996 | 222 | 927 | 1173 | 272 | 950 | 1299 | 321 | 969 | 1425 | 370 | 987 | 1582 | 451 | 1016 | 1651 | 499 | 1034 |
| 0.7 | --- | --- | --- | --- | --- | --- | 769 | 184 | 957 | 950 | 236 | 978 | 1131 | 287 | 998 | 1259 | 337 | 1015 | 1387 | 387 | 1032 | 1544 | 468 | 1058 | 1610 | 516 | 1077 |
| 0.8 | --- | --- | --- | --- | --- | --- | 720 | 195 | 1008 | 904 | 248 | 1026 | 1088 | 301 | 1044 | 1218 | 352 | 1060 | 1347 | 403 | 1075 | 1503 | 484 | 1101 | 1565 | 531 | 1121 |
| 0.9 | --- | --- | --- | --- | --- | --- | 670 | 206 | 1057 | 857 | 260 | 1073 | 1043 | 314 | 1088 | 1173 | 366 | 1102 | 1303 | 417 | 1116 | 1458 | 498 | 1142 | --- | --- | --- |
| 1.0 | --- | --- | --- | --- | --- | --- | 617 | 214 | 1102 | 806 | 269 | 1116 | 994 | 324 | 1130 | 1125 | 376 | 1144 | 1255 | 428 | 1157 | 1406 | 510 | 1184 | --- | --- | --- |
| 1.1 | --- | --- | --- | --- | --- | --- | 561 | 219 | 1145 | 751 | 276 | 1157 | 941 | 332 | 1169 | 1071 | 384 | 1183 | 1200 | 436 | 1196 | 1347 | 518 | 1225 | --- | --- | --- |
| 1.2 | --- | --- | --- | --- | --- | --- | 500 | 221 | 1185 | 691 | 278 | 1196 | 881 | 335 | 1207 | 1010 | 388 | 1221 | 1139 | 441 | 1234 | 1280 | 522 | 1265 | --- | --- | --- |
| 1.3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 814 | 335 | 1242 | 942 | 388 | 1256 | 1069 | 441 | 1270 | --- | --- | --- | --- | --- | --- |
| 1.4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 738 | 330 | 1276 | 864 | 384 | 1291 | 989 | 437 | 1305 | --- | --- | --- | --- | --- | --- |

HORIZONTAL

| External Static Press. in. w.g. | Percentage of Total Motor Torque | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|----------------------------------|-----|-------|-----|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|
| | 20% | | | 30% | | | 40% | | | 50% | | | 60% | | | 70% | | | 80% | | | 90% | | | 100% | | |
| | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts |
| 0 | 794 | 45 | 388 | 970 | 76 | 454 | 1146 | 107 | 519 | 1281 | 149 | 575 | 1416 | 191 | 630 | 1522 | 110 | 678 | 1627 | 293 | 726 | 1715 | 351 | 768 | 1802 | 408 | 810 |
| 0.1 | 709 | 44 | 460 | 895 | 78 | 519 | 1080 | 111 | 577 | 1223 | 155 | 627 | 1366 | 199 | 677 | 1477 | 251 | 721 | 1588 | 303 | 764 | 1681 | 362 | 804 | 1773 | 420 | 843 |
| 0.2 | 630 | 46 | 531 | 855 | 82 | 583 | 1019 | 117 | 634 | 1169 | 163 | 679 | 1318 | 208 | 723 | 1435 | 262 | 763 | 1552 | 315 | 803 | 1648 | 375 | 841 | 1743 | 434 | 878 |
| 0.3 | 556 | 51 | 602 | 759 | 88 | 646 | 961 | 125 | 690 | 1117 | 172 | 730 | 1273 | 219 | 769 | 1395 | 274 | 805 | 1516 | 328 | 841 | 1615 | 388 | 877 | 1714 | 448 | 912 |
| 0.4 | 486 | 58 | 671 | 696 | 97 | 709 | 906 | 135 | 746 | 1068 | 184 | 781 | 1230 | 232 | 815 | 1356 | 288 | 848 | 1481 | 343 | 880 | 1582 | 403 | 914 | 1683 | 463 | 948 |
| 0.5 | 420 | 66 | 740 | 637 | 107 | 771 | 854 | 147 | 802 | 1021 | 196 | 831 | 1188 | 245 | 860 | 1317 | 301 | 890 | 1446 | 357 | 919 | 1549 | 418 | 951 | 1652 | 478 | 983 |
| 0.6 | --- | --- | --- | --- | --- | --- | 804 | 159 | 856 | 946 | 209 | 881 | 1147 | 259 | 905 | 1279 | 316 | 932 | 1410 | 372 | 958 | 1514 | 432 | 989 | 1618 | 492 | 1019 |
| 0.7 | --- | --- | --- | --- | --- | --- | 756 | 172 | 910 | 932 | 223 | 930 | 1107 | 273 | 949 | 1241 | 330 | 973 | 1374 | 386 | 996 | 1478 | 446 | 1026 | 1582 | 506 | 1055 |
| 0.8 | --- | --- | --- | --- | --- | --- | 709 | 185 | 962 | 888 | 236 | 978 | 1066 | 287 | 993 | 1201 | 344 | 1014 | 1336 | 400 | 1034 | 1440 | 460 | 1063 | 1544 | 519 | 1091 |
| 0.9 | --- | --- | --- | --- | --- | --- | 663 | 197 | 1013 | 844 | 249 | 1025 | 1025 | 300 | 1036 | 1161 | 357 | 1054 | 1296 | 413 | 1072 | 1399 | 472 | 1100 | 1502 | 530 | 1127 |
| 1.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 982 | 313 | 1078 | 1118 | 369 | 1094 | 1254 | 424 | 1109 | 1355 | 482 | 1136 | 1456 | 540 | 1163 |
| 1.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 938 | 323 | 1119 | 1073 | 379 | 1133 | 1208 | 434 | 1146 | 1307 | 491 | 1172 | 1406 | 548 | 1198 |
| 1.2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 892 | 332 | 1158 | 1026 | 387 | 1170 | 1159 | 441 | 1182 | 1255 | 497 | 1208 | 1351 | 553 | 1233 |
| 1.3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 843 | 340 | 1197 | 975 | 393 | 1207 | 1106 | 446 | 1216 | 1198 | 501 | 1242 | 1290 | 555 | 1268 |
| 1.4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 790 | 344 | 1234 | 920 | 396 | 1242 | 1049 | 448 | 1250 | 1137 | 501 | 1276 | 1224 | 553 | 1302 |

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.).

Minimum Air Volume Required For Different Gas Heat Sizes:

Standard Heat - 960 cfm; Medium Heat - 1150 cfm; High Heat - 1500 cfm

See page 32 for wet coil and options/accessory air resistance data.

DOWNFLOW

| External Static Press. in. w.g. | Percentage of Total Motor Torque | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|----------------------------------|-------|-----|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|
| | 20% | | | 30% | | | 40% | | | 50% | | | 60% | | | 70% | | | 80% | | | 90% | | | 100% | | |
| | Cfm | Watts | RPM | Cfm | Watts | RPM | Cfm | Watts | RPM | Cfm | Watts | RPM | Cfm | Watts | RPM | Cfm | Watts | RPM | Cfm | Watts | RPM | Cfm | Watts | RPM | Cfm | Watts | RPM |
| 0 | 1115 | 124 | 488 | 1344 | 200 | 572 | 1573 | 276 | 655 | 1747 | 377 | 724 | 1920 | 477 | 792 | 2041 | 581 | 844 | 2161 | 684 | 896 | 2304 | 852 | 964 | 2354 | 936 | 992 |
| 0.1 | 1012 | 101 | 536 | 1253 | 181 | 614 | 1493 | 261 | 691 | 1677 | 366 | 755 | 1860 | 471 | 819 | 1990 | 578 | 868 | 2119 | 685 | 916 | 2277 | 860 | 980 | 2339 | 951 | 1006 |
| 0.2 | 926 | 88 | 584 | 1177 | 172 | 656 | 1427 | 256 | 728 | 1619 | 365 | 788 | 1811 | 473 | 848 | 1949 | 583 | 894 | 2086 | 693 | 939 | 2256 | 873 | 999 | 2328 | 969 | 1024 |
| 0.3 | 854 | 86 | 634 | 1113 | 173 | 701 | 1372 | 260 | 767 | 1572 | 371 | 823 | 1772 | 482 | 878 | 1916 | 595 | 921 | 2059 | 707 | 963 | 2240 | 891 | 1019 | 2319 | 991 | 1043 |
| 0.4 | 794 | 91 | 684 | 1061 | 181 | 746 | 1328 | 270 | 807 | 1535 | 383 | 859 | 1741 | 496 | 910 | 1890 | 611 | 950 | 2038 | 725 | 989 | 2226 | 913 | 1042 | 2311 | 1014 | 1065 |
| 0.5 | 745 | 104 | 734 | 1019 | 195 | 791 | 1292 | 286 | 847 | 1504 | 401 | 895 | 1715 | 515 | 942 | 1868 | 631 | 979 | 2020 | 747 | 1016 | 2214 | 936 | 1066 | 2301 | 1039 | 1089 |
| 0.6 | 704 | 122 | 785 | 983 | 215 | 837 | 1262 | 307 | 888 | 1478 | 423 | 932 | 1693 | 538 | 976 | 1849 | 654 | 1011 | 2004 | 770 | 1045 | 2201 | 960 | 1092 | 2288 | 1063 | 1114 |
| 0.7 | 671 | 145 | 836 | 954 | 238 | 883 | 1237 | 331 | 929 | 1456 | 447 | 969 | 1674 | 562 | 1009 | 1831 | 678 | 1041 | 1988 | 794 | 1073 | 2185 | 983 | 1118 | 2270 | 1085 | 1140 |
| 0.8 | 643 | 171 | 886 | 929 | 264 | 928 | 1215 | 357 | 969 | 1435 | 472 | 1006 | 1655 | 587 | 1043 | 1813 | 703 | 1073 | 1970 | 818 | 1103 | 2164 | 1005 | 1145 | 2246 | 1104 | 1168 |
| 0.9 | 619 | 199 | 935 | 907 | 291 | 973 | 1194 | 383 | 1010 | 1415 | 498 | 1043 | 1635 | 612 | 1076 | 1792 | 726 | 1104 | 1948 | 840 | 1132 | 2138 | 1024 | 1173 | 2212 | 1119 | 1196 |
| 1.0 | 596 | 228 | 983 | 884 | 319 | 1016 | 1172 | 410 | 1049 | 1392 | 523 | 1079 | 1612 | 635 | 1109 | 1766 | 747 | 1135 | 1920 | 859 | 1161 | 2104 | 1038 | 1200 | --- | --- | --- |
| 1.1 | --- | --- | --- | --- | --- | --- | 1148 | 434 | 1087 | 1366 | 545 | 1115 | 1583 | 655 | 1142 | 1734 | 765 | 1166 | 1885 | 874 | 1189 | 2060 | 1047 | 1227 | --- | --- | --- |
| 1.2 | --- | --- | --- | --- | --- | --- | 1120 | 456 | 1124 | 1334 | 564 | 1149 | 1548 | 671 | 1173 | 1695 | 777 | 1195 | 1841 | 883 | 1217 | 2004 | 1050 | 1254 | --- | --- | --- |
| 1.3 | --- | --- | --- | --- | --- | --- | 1085 | 474 | 1159 | 1295 | 578 | 1181 | 1505 | 681 | 1202 | 1646 | 784 | 1223 | 1786 | 886 | 1244 | 1935 | 1044 | 1280 | --- | --- | --- |
| 1.4 | --- | --- | --- | --- | --- | --- | 1043 | 486 | 1192 | 1247 | 586 | 1211 | 1451 | 685 | 1230 | 1585 | 783 | 1250 | 1718 | 881 | 1269 | 1851 | 1029 | 1305 | --- | --- | --- |

HORIZONTAL

| External Static Press. in. w.g. | Percentage of Total Motor Torque | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|----------------------------------|-------|-----|------|-------|-----|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|
| | 20% | | | 30% | | | 40% | | | 50% | | | 60% | | | 70% | | | 80% | | | 90% | | | 100% | | |
| | Cfm | Watts | RPM | Cfm | Watts | RPM | Cfm | Watts | RPM | Cfm | Watts | RPM | Cfm | Watts | RPM | Cfm | Watts | RPM | Cfm | Watts | RPM | Cfm | Watts | RPM | Cfm | Watts | RPM |
| 0 | 1087 | 111 | 493 | 1304 | 184 | 579 | 1520 | 257 | 665 | 1689 | 368 | 738 | 1857 | 478 | 810 | 1972 | 588 | 864 | 2087 | 698 | 918 | 2196 | 844 | 975 | 2283 | 925 | 1000 |
| 0.1 | 1021 | 104 | 537 | 1246 | 180 | 618 | 1470 | 255 | 699 | 1646 | 368 | 768 | 1821 | 480 | 837 | 1941 | 592 | 888 | 2061 | 704 | 938 | 2179 | 852 | 992 | 2255 | 926 | 1017 |
| 0.2 | 961 | 102 | 582 | 1193 | 181 | 658 | 1425 | 259 | 734 | 1607 | 373 | 799 | 1789 | 487 | 864 | 1914 | 601 | 912 | 2039 | 714 | 960 | 2163 | 864 | 1012 | 2231 | 932 | 1034 |
| 0.3 | 906 | 106 | 628 | 1145 | 186 | 699 | 1384 | 266 | 769 | 1572 | 382 | 831 | 1759 | 498 | 892 | 1889 | 613 | 938 | 2018 | 728 | 984 | 2149 | 879 | 1033 | 2209 | 941 | 1053 |
| 0.4 | 855 | 113 | 674 | 1101 | 196 | 740 | 1347 | 278 | 806 | 1540 | 396 | 864 | 1732 | 513 | 921 | 1866 | 629 | 965 | 1999 | 744 | 1008 | 2134 | 896 | 1054 | --- | --- | --- |
| 0.5 | 808 | 125 | 720 | 1060 | 209 | 781 | 1312 | 293 | 842 | 1509 | 412 | 896 | 1706 | 530 | 950 | 1843 | 646 | 992 | 1980 | 762 | 1033 | 2119 | 915 | 1077 | --- | --- | --- |
| 0.6 | 764 | 139 | 766 | 1022 | 225 | 823 | 1279 | 310 | 879 | 1481 | 430 | 930 | 1682 | 549 | 980 | 1821 | 666 | 1019 | 1960 | 782 | 1058 | 2102 | 935 | 1101 | --- | --- | --- |
| 0.7 | 722 | 155 | 812 | 985 | 242 | 864 | 1247 | 328 | 916 | 1452 | 449 | 964 | 1657 | 569 | 1011 | 1799 | 686 | 1048 | 1940 | 803 | 1084 | 2084 | 955 | 1125 | --- | --- | --- |
| 0.8 | 682 | 172 | 858 | 949 | 260 | 906 | 1216 | 348 | 953 | 1424 | 469 | 997 | 1632 | 589 | 1041 | 1776 | 706 | 1076 | 1919 | 823 | 1111 | 2063 | 974 | 1150 | --- | --- | --- |
| 0.9 | 643 | 191 | 903 | 914 | 279 | 946 | 1185 | 367 | 989 | 1396 | 489 | 1030 | 1606 | 610 | 1071 | 1751 | 727 | 1104 | 1895 | 843 | 1137 | 2039 | 992 | 1175 | --- | --- | --- |
| 1.0 | --- | --- | --- | --- | --- | --- | 1153 | 386 | 1024 | 1366 | 508 | 1062 | 1579 | 629 | 1100 | 1724 | 745 | 1132 | 1869 | 861 | 1163 | 2011 | 1008 | 1201 | --- | --- | --- |
| 1.1 | --- | --- | --- | --- | --- | --- | 1120 | 404 | 1059 | 1334 | 525 | 1095 | 1548 | 646 | 1130 | 1694 | 761 | 1160 | 1839 | 876 | 1189 | 1979 | 1021 | 1226 | --- | --- | --- |
| 1.2 | --- | --- | --- | --- | --- | --- | 1085 | 420 | 1093 | 1300 | 541 | 1126 | 1515 | 661 | 1158 | 1660 | 775 | 1186 | 1805 | 889 | 1214 | 1941 | 1031 | 1250 | --- | --- | --- |
| 1.3 | --- | --- | --- | --- | --- | --- | 1047 | 433 | 1126 | 1263 | 553 | 1156 | 1478 | 672 | 1186 | 1622 | 785 | 1213 | 1766 | 898 | 1239 | 1897 | 1037 | 1275 | --- | --- | --- |
| 1.4 | --- | --- | --- | --- | --- | --- | 1005 | 442 | 1158 | 1221 | 561 | 1185 | 1436 | 680 | 1212 | 1579 | 792 | 1238 | 1721 | 903 | 1263 | 1847 | 1037 | 1298 | --- | --- | --- |

1.0 HP | 4 ROW (060)

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.).

Minimum Air Volume Required For Different Gas Heat Sizes:

Standard Heat - 960 cfm; Medium Heat - 1150 cfm; High Heat - 1500 cfm

See page 32 for wet coil and options/accessory air resistance data.

DOWNFLOW

| External Static Press. in. w.g. | Percentage of Total Motor Torque | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|----------------------------------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|
| | 20% | | | 30% | | | 40% | | | 50% | | | 60% | | | 70% | | | 80% | | | 90% | | | 100% | | |
| | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts |
| 0 | 1101 | 120 | 494 | 1328 | 196 | 578 | 1555 | 272 | 662 | 1728 | 374 | 731 | 1901 | 475 | 800 | 852 | 2145 | 684 | 903 | 2292 | 854 | 970 | 2348 | 942 | 998 | | |
| 0.1 | 1002 | 99 | 541 | 1241 | 180 | 620 | 1479 | 260 | 698 | 1662 | 366 | 763 | 1845 | 471 | 827 | 1976 | 579 | 876 | 2106 | 687 | 924 | 2268 | 865 | 987 | 2334 | 958 | 1013 |
| 0.2 | 918 | 88 | 589 | 1167 | 173 | 663 | 1416 | 257 | 736 | 1608 | 366 | 796 | 1800 | 475 | 856 | 1938 | 586 | 902 | 2076 | 697 | 947 | 2249 | 880 | 1006 | 2324 | 978 | 1031 |
| 0.3 | 848 | 86 | 638 | 1106 | 174 | 706 | 1364 | 261 | 774 | 1564 | 373 | 830 | 1763 | 485 | 886 | 1907 | 599 | 929 | 2051 | 712 | 972 | 2234 | 899 | 1028 | 2316 | 1000 | 1052 |
| 0.4 | 790 | 92 | 688 | 1056 | 183 | 751 | 1321 | 273 | 814 | 1527 | 387 | 866 | 1733 | 501 | 918 | 1882 | 617 | 958 | 2031 | 732 | 998 | 2221 | 921 | 1051 | 2307 | 1024 | 1074 |
| 0.5 | 742 | 105 | 738 | 1015 | 197 | 796 | 1287 | 289 | 854 | 1498 | 405 | 902 | 1709 | 520 | 950 | 1862 | 637 | 988 | 2014 | 754 | 1025 | 2208 | 944 | 1076 | 2296 | 1048 | 1099 |
| 0.6 | 703 | 124 | 788 | 981 | 217 | 841 | 1258 | 310 | 894 | 1473 | 427 | 939 | 1688 | 543 | 984 | 1843 | 660 | 1019 | 1998 | 777 | 1053 | 2194 | 968 | 1101 | 2281 | 1071 | 1124 |
| 0.7 | 670 | 146 | 838 | 952 | 240 | 887 | 1233 | 334 | 935 | 1451 | 451 | 976 | 1669 | 568 | 1017 | 1826 | 685 | 1050 | 1982 | 801 | 1082 | 2177 | 991 | 1128 | 2260 | 1092 | 1151 |
| 0.8 | 642 | 172 | 888 | 927 | 266 | 932 | 1211 | 360 | 975 | 1431 | 477 | 1013 | 1650 | 593 | 1051 | 1807 | 709 | 1081 | 1963 | 825 | 1111 | 2155 | 1012 | 1155 | 2233 | 1109 | 1178 |
| 0.9 | 618 | 200 | 937 | 904 | 294 | 976 | 1190 | 387 | 1015 | 1410 | 502 | 1050 | 1629 | 617 | 1084 | 1785 | 732 | 1112 | 1940 | 846 | 1140 | 2127 | 1029 | 1182 | --- | --- | --- |
| 1.0 | 595 | 229 | 985 | 882 | 321 | 1020 | 1168 | 413 | 1054 | 1387 | 526 | 1086 | 1605 | 639 | 1117 | 1758 | 752 | 1143 | 1911 | 864 | 1169 | 2090 | 1042 | 1209 | --- | --- | --- |
| 1.1 | --- | --- | --- | --- | --- | --- | 1144 | 437 | 1092 | 1360 | 548 | 1120 | 1576 | 659 | 1148 | 1725 | 769 | 1173 | 1874 | 878 | 1197 | 2043 | 1049 | 1236 | --- | --- | --- |
| 1.2 | --- | --- | --- | --- | --- | --- | 1115 | 458 | 1129 | 1328 | 566 | 1154 | 1540 | 674 | 1179 | 1685 | 780 | 1202 | 1829 | 886 | 1225 | 1985 | 1049 | 1262 | --- | --- | --- |
| 1.3 | --- | --- | --- | --- | --- | --- | 1080 | 475 | 1163 | 1288 | 579 | 1186 | 1496 | 683 | 1208 | 1634 | 785 | 1230 | 1772 | 887 | 1251 | 1913 | 1042 | 1288 | --- | --- | --- |
| 1.4 | --- | --- | --- | --- | --- | --- | 1037 | 487 | 1196 | 1239 | 587 | 1216 | 1441 | 686 | 1236 | 1572 | 783 | 1256 | 1703 | 880 | 1275 | 1826 | 1024 | 1312 | --- | --- | --- |

HORIZONTAL

| External Static Press. in. w.g. | Percentage of Total Motor Torque | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|----------------------------------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|-----|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|
| | 20% | | | 30% | | | 40% | | | 50% | | | 60% | | | 70% | | | 80% | | | 90% | | | 100% | | |
| | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts | Cfm | RPM | Watts |
| 0 | 1077 | 113 | 502 | 1282 | 175 | 585 | 1486 | 237 | 668 | 1670 | 363 | 746 | 1854 | 489 | 823 | 884 | 2131 | 757 | 944 | 2216 | 882 | 995 | 2268 | 926 | 1009 | | |
| 0.1 | 1016 | 109 | 546 | 1227 | 172 | 624 | 1437 | 234 | 701 | 1626 | 361 | 775 | 1814 | 488 | 848 | 906 | 2098 | 757 | 964 | 2194 | 887 | 1011 | 2242 | 928 | 1026 | | |
| 0.2 | 962 | 111 | 591 | 1177 | 174 | 663 | 1392 | 236 | 735 | 1585 | 364 | 805 | 1777 | 492 | 874 | 1923 | 627 | 930 | 2069 | 762 | 985 | 2175 | 895 | 1029 | 935 | 1044 | |
| 0.3 | 913 | 118 | 636 | 1133 | 181 | 703 | 1352 | 244 | 770 | 1548 | 372 | 836 | 1744 | 500 | 902 | 1893 | 636 | 955 | 2042 | 772 | 1007 | 2157 | 907 | 1048 | 2196 | 945 | 1063 |
| 0.4 | 868 | 130 | 682 | 1092 | 193 | 744 | 1315 | 256 | 806 | 1515 | 384 | 868 | 1714 | 512 | 930 | 1866 | 648 | 980 | 2018 | 784 | 1030 | 2139 | 922 | 1069 | --- | --- | --- |
| 0.5 | 827 | 146 | 728 | 1054 | 209 | 785 | 1281 | 271 | 842 | 1484 | 399 | 901 | 1687 | 526 | 959 | 1841 | 663 | 1007 | 1995 | 799 | 1054 | 2121 | 938 | 1090 | --- | --- | --- |
| 0.6 | 789 | 165 | 775 | 1019 | 227 | 827 | 1249 | 288 | 879 | 1455 | 416 | 934 | 1660 | 543 | 988 | 1816 | 679 | 1034 | 1972 | 815 | 1079 | 2102 | 955 | 1113 | --- | --- | --- |
| 0.7 | 752 | 185 | 821 | 986 | 247 | 869 | 1219 | 308 | 916 | 1427 | 435 | 967 | 1634 | 562 | 1018 | 1792 | 698 | 1061 | 1949 | 833 | 1104 | 2081 | 972 | 1136 | --- | --- | --- |
| 0.8 | 718 | 208 | 867 | 954 | 268 | 910 | 1189 | 328 | 953 | 1399 | 455 | 1000 | 1608 | 581 | 1047 | 1767 | 716 | 1088 | 1925 | 851 | 1129 | 2058 | 989 | 1160 | --- | --- | --- |
| 0.9 | 684 | 231 | 913 | 922 | 290 | 951 | 1160 | 349 | 989 | 1371 | 475 | 1033 | 1581 | 600 | 1077 | 1741 | 734 | 1116 | 1900 | 868 | 1154 | 2031 | 1004 | 1185 | --- | --- | --- |
| 1.0 | --- | --- | --- | --- | --- | --- | 1129 | 369 | 1025 | 1341 | 494 | 1066 | 1553 | 618 | 1106 | 1713 | 751 | 1143 | 1872 | 884 | 1179 | 2001 | 1017 | 1209 | --- | --- | --- |
| 1.1 | --- | --- | --- | --- | --- | --- | 1097 | 388 | 1060 | 1310 | 511 | 1098 | 1522 | 634 | 1135 | 1682 | 766 | 1170 | 1841 | 898 | 1204 | 1966 | 1028 | 1233 | --- | --- | --- |
| 1.2 | --- | --- | --- | --- | --- | --- | 1063 | 405 | 1095 | 1276 | 527 | 1129 | 1488 | 648 | 1163 | 1647 | 779 | 1196 | 1806 | 909 | 1228 | 1925 | 1034 | 1257 | --- | --- | --- |
| 1.3 | --- | --- | --- | --- | --- | --- | 1026 | 420 | 1128 | 1239 | 540 | 1159 | 1451 | 659 | 1190 | 1609 | 788 | 1221 | 1767 | 917 | 1252 | 1879 | 1036 | 1281 | --- | --- | --- |
| 1.4 | --- | --- | --- | --- | --- | --- | 985 | 431 | 1160 | 1197 | 548 | 1188 | 1409 | 665 | 1216 | 1566 | 793 | 1245 | 1723 | 920 | 1274 | 1825 | 1033 | 1304 | --- | --- | --- |

1.5 HP | 3 ROW (036, 048)

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

FOR ALL UNITS ADD:
 Minimum Air Volume Required For Different Gas Heat Sizes:

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

Standard Heat - 1075 cfm; Medium Heat - 1150 cfm; High Heat - 1500 cfm

See page 32 for wet coil and options/accessory air resistance data.

DOWNFLOW

| Total Air cfm | Total Static Pressure - in. w.g. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|----------------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | 0.1 | | 0.2 | | 0.3 | | 0.4 | | 0.5 | | 0.6 | | 0.7 | | 0.8 | | 0.9 | | 1.0 | | 1.1 | | 1.2 | | 1.3 | | | |
| | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts |
| 400 | 718 | 19 | 803 | 41 | 72 | 1008 | 92 | 1080 | 111 | 1149 | 127 | 1226 | 129 | 1307 | 126 | 1386 | 124 | 1574 | 197 | 1630 | 220 | 1681 | 250 | 1731 | 279 | 1779 | 307 | |
| 600 | 845 | 50 | 929 | 72 | 1057 | 101 | 1138 | 123 | 1214 | 143 | 1286 | 160 | 1362 | 168 | 1439 | 173 | 1510 | 181 | 1697 | 263 | 1747 | 293 | 1796 | 324 | 1844 | 353 | 1890 | 379 |
| 800 | 971 | 79 | 1057 | 101 | 1138 | 123 | 1214 | 143 | 1286 | 160 | 1362 | 168 | 1439 | 173 | 1510 | 181 | 1697 | 263 | 1747 | 293 | 1796 | 324 | 1844 | 353 | 1890 | 379 | | |
| 1000 | 1136 | 113 | 1215 | 135 | 1293 | 157 | 1367 | 177 | 1438 | 196 | 1510 | 209 | 1642 | 239 | 1788 | 299 | 1834 | 332 | 1878 | 368 | 1923 | 400 | 1970 | 428 | 2015 | 454 | | |
| 1200 | 1335 | 151 | 1406 | 172 | 1476 | 193 | 1544 | 213 | 1611 | 232 | 1675 | 250 | 1735 | 272 | 1788 | 371 | 1978 | 405 | 2019 | 439 | 2063 | 469 | 2108 | 496 | 2152 | 522 | | |
| 1400 | 1560 | 177 | 1617 | 204 | 1675 | 231 | 1732 | 257 | 1788 | 283 | 1841 | 310 | 1891 | 339 | 1936 | 461 | 2125 | 486 | 2169 | 513 | 2213 | 541 | 2256 | 570 | 2297 | 601 | | |
| 1600 | 1742 | 245 | 1792 | 278 | 1842 | 311 | 1892 | 344 | 1940 | 376 | 1988 | 406 | 2035 | 434 | 2080 | 461 | 2125 | 486 | 2169 | 513 | 2213 | 541 | 2256 | 570 | 2297 | 601 | | |
| 1800 | 1922 | 330 | 1970 | 363 | 2017 | 395 | 2064 | 426 | 2110 | 457 | 2155 | 485 | 2200 | 512 | 2244 | 539 | 2287 | 568 | 2328 | 600 | 2369 | 634 | 2408 | 671 | 2447 | 708 | | |
| 2000 | 2112 | 405 | 2158 | 438 | 2202 | 471 | 2246 | 503 | 2289 | 536 | 2331 | 568 | 2373 | 602 | 2413 | 640 | 2452 | 681 | 2490 | 723 | 2527 | 766 | 2564 | 809 | 2599 | 851 | | |
| 2200 | 2305 | 493 | 2347 | 531 | 2389 | 569 | 2429 | 608 | 2469 | 648 | 2508 | 691 | 2546 | 737 | 2582 | 784 | 2619 | 832 | 2654 | 878 | 2690 | 923 | 2724 | 965 | 2758 | 1007 | | |
| 2400 | 2499 | 617 | 2539 | 660 | 2578 | 704 | 2615 | 748 | 2652 | 794 | 2688 | 841 | 2722 | 890 | 2757 | 939 | 2791 | 986 | 2825 | 1031 | 2858 | 1075 | 2891 | 1117 | 2923 | 1158 | | |
| 2600 | 2697 | 773 | 2733 | 818 | 2769 | 864 | 2803 | 911 | 2837 | 957 | 2871 | 1005 | 2903 | 1052 | 2936 | 1099 | 2968 | 1143 | 3000 | 1186 | 3031 | 1228 | 3062 | 1270 | 3092 | 1311 | | |
| 2800 | 2896 | 944 | 2929 | 990 | 2962 | 1036 | 2993 | 1082 | 3025 | 1128 | 3056 | 1173 | 3087 | 1216 | 3118 | 1259 | 3147 | 1300 | 3177 | 1341 | 3206 | 1382 | 3236 | 1423 | 3264 | 1463 | | |
| 3000 | 3093 | 1115 | 3124 | 1160 | 3154 | 1205 | 3184 | 1249 | 3214 | 1293 | 3243 | 1335 | 3272 | 1376 | 3300 | 1416 | 3327 | 1456 | 3355 | 1495 | 3383 | 1536 | 3410 | 1576 | 3437 | 1615 | | |

| Total Air cfm | Total Static Pressure - in. w.g. | | | | | | | | | | | | | | |
|---------------|----------------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-----|
| | 1.4 | | 1.5 | | 1.6 | | 1.7 | | 1.8 | | 1.9 | | 2.0 | | |
| | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | |
| 800 | 1826 | 333 | 424 | 2021 | 444 | 2064 | 464 | 2106 | 485 | 2149 | 509 | 2191 | 533 | | |
| 1000 | 1935 | 403 | 476 | 2100 | 498 | 2142 | 518 | 2184 | 541 | 2226 | 565 | 2267 | 592 | 2308 | 619 |
| 1200 | 2058 | 476 | 2100 | 498 | 2142 | 518 | 2184 | 541 | 2226 | 565 | 2267 | 592 | 2308 | 619 | |
| 1400 | 2194 | 548 | 2235 | 574 | 2275 | 601 | 2316 | 629 | 2356 | 658 | 2395 | 689 | 2433 | 720 | |
| 1600 | 2337 | 632 | 2377 | 665 | 2415 | 698 | 2453 | 733 | 2490 | 768 | 2527 | 803 | 2563 | 839 | |
| 1800 | 2484 | 746 | 2521 | 785 | 2557 | 824 | 2592 | 863 | 2627 | 902 | 2661 | 942 | 2695 | 981 | |
| 2000 | 2634 | 894 | 2668 | 935 | 2701 | 977 | 2735 | 1018 | 2768 | 1058 | 2802 | 1099 | 2834 | 1139 | |
| 2200 | 2790 | 1049 | 2823 | 1090 | 2855 | 1130 | 2887 | 1170 | 2919 | 1210 | 2952 | 1250 | 2984 | 1289 | |
| 2400 | 2954 | 1200 | 2986 | 1240 | 3017 | 1280 | 3048 | 1320 | 3080 | 1360 | 3111 | 1399 | 3142 | 1437 | |
| 2600 | 3123 | 1351 | 3153 | 1391 | 3184 | 1431 | 3215 | 1470 | 3245 | 1509 | 3276 | 1548 | 3306 | 1586 | |
| 2800 | 3294 | 1502 | 3323 | 1542 | 3352 | 1580 | 3382 | 1619 | 3412 | 1658 | 3442 | 1696 | 3472 | 1734 | |
| 3000 | 3464 | 1653 | 3492 | 1691 | 3520 | 1729 | 3549 | 1767 | 3578 | 1805 | 3608 | 1844 | 3638 | 1882 | |

BLOWER DATA

1.5 HP | 3 ROW (036, 048)

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

FOR ALL UNITS ADD:

Minimum Air Volume Required For Different Gas Heat Sizes:
 1 - Any factory installed options air resistance (heat section, economizer, etc.).
 2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.).

See page 32 for wet coil and options/accessory air resistance data.

HORIZONTAL

| Total Air cfm | Total Static Pressure - in. w.g. | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|----------------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| | 0.1 | | 0.2 | | 0.3 | | 0.4 | | 0.5 | | 0.6 | | 0.7 | | 0.8 | | 0.9 | | 1.0 | | 1.1 | | 1.2 | | 1.3 | | |
| | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | |
| 400 | 708 | 16 | 793 | 37 | 872 | 53 | 957 | 71 | 1042 | 87 | 1227 | 103 | 1412 | 119 | 1597 | 135 | 1782 | 151 | 1967 | 167 | 2152 | 183 | 2337 | 199 | 2522 | 215 | 2707 |
| 600 | 835 | 46 | 918 | 65 | 1000 | 82 | 1077 | 95 | 1149 | 107 | 1221 | 109 | 1365 | 148 | 1434 | 154 | 1497 | 163 | 1555 | 179 | 1607 | 200 | 1656 | 226 | 1704 | 254 | 1752 |
| 800 | 981 | 75 | 1064 | 92 | 1144 | 109 | 1221 | 124 | 1294 | 139 | 1365 | 148 | 1434 | 154 | 1582 | 207 | 1638 | 227 | 1689 | 252 | 1737 | 279 | 1783 | 308 | 1829 | 335 | 1873 |
| 1000 | 1166 | 105 | 1241 | 124 | 1315 | 141 | 1387 | 159 | 1454 | 176 | 1520 | 191 | 1582 | 246 | 1739 | 271 | 1787 | 299 | 1832 | 330 | 1876 | 361 | 1920 | 391 | 1964 | 419 | 2007 |
| 1200 | 1374 | 142 | 1440 | 162 | 1506 | 182 | 1569 | 203 | 1630 | 224 | 1687 | 246 | 1739 | 320 | 1899 | 351 | 1942 | 382 | 1984 | 412 | 2026 | 442 | 2068 | 469 | 2110 | 496 | 2153 |
| 1400 | 1591 | 183 | 1647 | 209 | 1701 | 235 | 1755 | 263 | 1806 | 291 | 1854 | 320 | 1899 | 444 | 2059 | 444 | 2102 | 470 | 2144 | 494 | 2185 | 519 | 2227 | 545 | 2268 | 572 | 2309 |
| 1600 | 1778 | 258 | 1827 | 290 | 1876 | 323 | 1923 | 355 | 1970 | 386 | 2015 | 416 | 2059 | 596 | 2237 | 531 | 2279 | 557 | 2319 | 584 | 2359 | 613 | 2397 | 645 | 2435 | 679 | 2471 |
| 1800 | 1973 | 352 | 2018 | 383 | 2063 | 415 | 2107 | 445 | 2151 | 476 | 2194 | 504 | 2237 | 731 | 2605 | 774 | 2637 | 819 | 2668 | 863 | 2700 | 907 | 2732 | 949 | 2764 | 990 | 2795 |
| 2000 | 2182 | 437 | 2224 | 468 | 2265 | 499 | 2306 | 531 | 2346 | 563 | 2385 | 596 | 2424 | 830 | 2846 | 890 | 2876 | 935 | 2907 | 980 | 2937 | 1025 | 2967 | 1068 | 2997 | 1109 | 3027 |
| 2200 | 2388 | 540 | 2426 | 576 | 2464 | 613 | 2500 | 651 | 2536 | 691 | 2571 | 731 | 2605 | 1066 | 3087 | 1147 | 3117 | 1189 | 3147 | 1230 | 3177 | 1270 | 3207 | 1310 | 3237 | 1350 | 3267 |
| 2400 | 2589 | 679 | 2624 | 719 | 2658 | 761 | 2691 | 803 | 2724 | 846 | 2756 | 890 | 2786 | 1230 | 3177 | 1310 | 3207 | 1350 | 3237 | 1390 | 3277 | 1430 | 3317 | 1470 | 3357 | 1510 | 3397 |
| 2600 | 2787 | 845 | 2819 | 887 | 2850 | 930 | 2881 | 973 | 2911 | 1017 | 2941 | 1060 | 2970 | 1510 | 3397 | 1590 | 3487 | 1670 | 3577 | 1750 | 3667 | 1830 | 3757 | 1910 | 3847 | 1990 | 3937 |
| 2800 | 2983 | 1021 | 3013 | 1063 | 3042 | 1106 | 3070 | 1149 | 3099 | 1191 | 3127 | 1230 | 3157 | 1750 | 3937 | 1830 | 4027 | 1910 | 4117 | 1990 | 4207 | 2070 | 4297 | 2150 | 4387 | 2230 | 4477 |

Total Static Pressure - in. w.g.

| Total Air cfm | Total Static Pressure - in. w.g. | | | | | | | | | | | | | |
|---------------|----------------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | 1.4 | | 1.5 | | 1.6 | | 1.7 | | 1.8 | | 1.9 | | 2.0 | |
| | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts |
| 800 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| 1000 | 1916 | 386 | 1957 | 408 | 1998 | 428 | 2037 | 447 | 2077 | 465 | 2117 | 484 | 2157 | |
| 1200 | 2049 | 468 | 2089 | 490 | 2128 | 510 | 2168 | 529 | 2207 | 549 | 2246 | 569 | 2285 | |
| 1400 | 2194 | 543 | 2235 | 565 | 2274 | 588 | 2313 | 611 | 2350 | 637 | 2387 | 664 | 2423 | |
| 1600 | 2349 | 627 | 2387 | 657 | 2423 | 688 | 2457 | 722 | 2490 | 757 | 2522 | 793 | 2554 | |
| 1800 | 2506 | 749 | 2539 | 787 | 2571 | 825 | 2602 | 864 | 2632 | 903 | 2662 | 942 | 2692 | |
| 2000 | 2663 | 906 | 2694 | 945 | 2725 | 985 | 2755 | 1024 | 2785 | 1063 | 2815 | 1101 | 2845 | |
| 2200 | 2826 | 1068 | 2857 | 1107 | 2887 | 1146 | 2916 | 1184 | 2946 | 1221 | 2975 | 1259 | 3005 | |
| 2400 | 2997 | 1227 | 3027 | 1266 | 3056 | 1304 | 3085 | 1342 | 3114 | 1380 | 3143 | 1418 | 3172 | |
| 2600 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| 2800 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |

BLOWER DATA

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

FOR ALL UNITS ADD:

Minimum Air Volume Required For Different Gas Heat Sizes:

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

Standard Heat - 1075 cfm; Medium Heat - 1150 cfm; High Heat - 1500 cfm

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

See page 32 for wet coil and options/accessory air resistance data.

DOWNFLOW

| Total Air cfm | Total Static Pressure - in. w.g. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|----------------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | 0.1 | | 0.2 | | 0.3 | | 0.4 | | 0.5 | | 0.6 | | 0.7 | | 0.8 | | 0.9 | | 1.0 | | 1.1 | | 1.2 | | 1.3 | | | | | |
| | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts |
| 400 | 720 | 20 | 805 | 41 | 933 | 73 | 1011 | 93 | 1083 | 112 | 1152 | 128 | 1229 | 130 | 1310 | 126 | 1389 | 125 | 1514 | 183 | 1578 | 198 | 1634 | 222 | 1684 | 252 | 1734 | 281 | 1783 | 309 |
| 600 | 849 | 51 | 933 | 73 | 1011 | 93 | 1083 | 112 | 1152 | 128 | 1229 | 130 | 1310 | 126 | 1389 | 125 | 1514 | 183 | 1578 | 198 | 1634 | 222 | 1684 | 252 | 1734 | 281 | 1783 | 309 | 1783 | 309 |
| 800 | 978 | 81 | 1064 | 103 | 1145 | 124 | 1220 | 144 | 1291 | 162 | 1367 | 170 | 1443 | 175 | 1514 | 183 | 1578 | 198 | 1634 | 222 | 1684 | 252 | 1734 | 281 | 1783 | 309 | 1783 | 309 | 1783 | 309 |
| 1000 | 1147 | 116 | 1225 | 138 | 1302 | 159 | 1376 | 179 | 1446 | 198 | 1517 | 211 | 1586 | 224 | 1648 | 242 | 1703 | 266 | 1753 | 296 | 1801 | 327 | 1849 | 356 | 1896 | 382 | 1896 | 382 | 1896 | 382 |
| 1200 | 1347 | 154 | 1418 | 175 | 1487 | 196 | 1555 | 216 | 1620 | 235 | 1684 | 253 | 1743 | 275 | 1795 | 302 | 1841 | 336 | 1884 | 373 | 1930 | 405 | 1976 | 433 | 2021 | 458 | 2021 | 458 | 2021 | 458 |
| 1400 | 1571 | 182 | 1629 | 209 | 1686 | 236 | 1742 | 262 | 1798 | 288 | 1850 | 315 | 1899 | 346 | 1943 | 380 | 1984 | 417 | 2025 | 453 | 2068 | 485 | 2113 | 512 | 2156 | 537 | 2156 | 537 | 2156 | 537 |
| 1600 | 1753 | 252 | 1803 | 286 | 1853 | 318 | 1902 | 351 | 1951 | 383 | 1998 | 415 | 2043 | 447 | 2087 | 478 | 2130 | 508 | 2173 | 539 | 2216 | 568 | 2259 | 595 | 2302 | 621 | 2302 | 621 | 2302 | 621 |
| 1800 | 1935 | 339 | 1983 | 371 | 2030 | 403 | 2076 | 434 | 2122 | 465 | 2167 | 495 | 2210 | 524 | 2253 | 554 | 2295 | 586 | 2337 | 618 | 2378 | 650 | 2418 | 682 | 2458 | 714 | 2458 | 714 | 2458 | 714 |
| 2000 | 2127 | 415 | 2172 | 448 | 2217 | 481 | 2260 | 513 | 2303 | 546 | 2345 | 579 | 2385 | 614 | 2425 | 653 | 2464 | 693 | 2503 | 734 | 2541 | 774 | 2578 | 814 | 2614 | 855 | 2614 | 855 | 2614 | 855 |
| 2200 | 2321 | 507 | 2363 | 545 | 2404 | 583 | 2444 | 623 | 2484 | 664 | 2522 | 707 | 2560 | 753 | 2596 | 801 | 2632 | 848 | 2667 | 895 | 2703 | 939 | 2737 | 981 | 2770 | 1023 | 2770 | 1023 | 2770 | 1023 |
| 2400 | 2516 | 635 | 2556 | 679 | 2594 | 723 | 2631 | 767 | 2668 | 813 | 2703 | 861 | 2737 | 909 | 2772 | 958 | 2805 | 1005 | 2839 | 1050 | 2872 | 1093 | 2905 | 1135 | 2936 | 1176 | 2936 | 1176 | 2936 | 1176 |
| 2600 | 2715 | 796 | 2751 | 841 | 2786 | 887 | 2820 | 933 | 2854 | 980 | 2887 | 1027 | 2919 | 1074 | 2952 | 1120 | 2983 | 1164 | 3015 | 1207 | 3046 | 1249 | 3077 | 1290 | 3107 | 1330 | 3107 | 1330 | 3107 | 1330 |
| 2800 | 2915 | 970 | 2947 | 1016 | 2979 | 1062 | 3011 | 1107 | 3042 | 1152 | 3073 | 1197 | 3104 | 1240 | 3134 | 1282 | 3164 | 1323 | 3193 | 1364 | 3222 | 1404 | 3251 | 1445 | 3280 | 1485 | 3280 | 1485 | 3280 | 1485 |
| 3000 | 3112 | 1142 | 3142 | 1187 | 3172 | 1232 | 3202 | 1276 | 3232 | 1319 | 3261 | 1361 | 3289 | 1401 | 3317 | 1441 | 3344 | 1480 | 3371 | 1520 | 3399 | 1560 | 3426 | 1600 | 3453 | 1638 | 3453 | 1638 | 3453 | 1638 |

Total Static Pressure - in. w.g.

| Total Air cfm | Total Static Pressure - in. w.g. | | | | | | | | | | | | | |
|---------------|----------------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | 1.4 | | 1.5 | | 1.6 | | 1.7 | | 1.8 | | 1.9 | | 2.0 | |
| | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts |
| 800 | 1830 | 335 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| 1000 | 1940 | 405 | 1983 | 426 | 2026 | 446 | 2068 | 466 | 2111 | 488 | 2154 | 512 | 2196 | 536 |
| 1200 | 2064 | 480 | 2106 | 501 | 2148 | 522 | 2190 | 544 | 2232 | 569 | 2273 | 595 | 2314 | 623 |
| 1400 | 2199 | 560 | 2241 | 584 | 2282 | 608 | 2323 | 634 | 2363 | 664 | 2402 | 694 | 2440 | 726 |
| 1600 | 2344 | 647 | 2384 | 675 | 2424 | 706 | 2462 | 740 | 2498 | 776 | 2535 | 811 | 2571 | 848 |
| 1800 | 2497 | 749 | 2533 | 788 | 2568 | 829 | 2602 | 872 | 2636 | 914 | 2671 | 953 | 2705 | 992 |
| 2000 | 2648 | 898 | 2681 | 941 | 2714 | 986 | 2746 | 1030 | 2779 | 1072 | 2812 | 1112 | 2845 | 1152 |
| 2200 | 2803 | 1064 | 2835 | 1105 | 2867 | 1145 | 2899 | 1186 | 2931 | 1225 | 2964 | 1265 | 2995 | 1303 |
| 2400 | 2968 | 1217 | 2999 | 1258 | 3031 | 1298 | 3062 | 1337 | 3093 | 1377 | 3124 | 1415 | 3156 | 1454 |
| 2600 | 3138 | 1371 | 3168 | 1411 | 3199 | 1450 | 3229 | 1489 | 3260 | 1528 | 3290 | 1566 | 3321 | 1604 |
| 2800 | 3309 | 1524 | 3338 | 1563 | 3368 | 1602 | 3398 | 1640 | 3428 | 1678 | 3458 | 1717 | 3488 | 1755 |
| 3000 | 3481 | 1677 | 3508 | 1715 | 3537 | 1752 | 3566 | 1790 | 3595 | 1828 | 3625 | 1866 | 3655 | 1904 |

BLOWER DATA **1.5 HP | 4 ROW (060)**

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.).

Minimum Air Volume Required For Different Gas Heat Sizes:

Standard Heat - 1075 cfm; Medium Heat - 1150 cfm; High Heat - 1500 cfm

See page 32 for wet coil and options/accessory air resistance data.

HORIZONTAL

| Total Air cfm | Total Static Pressure - in. w.g. | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|----------------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| | 0.1 | | 0.2 | | 0.3 | | 0.4 | | 0.5 | | 0.6 | | 0.7 | | 0.8 | | 0.9 | | 1.0 | | 1.1 | | 1.2 | | 1.3 | | |
| | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | |
| 400 | 711 | 16 | 796 | 38 | 66 | 1006 | 83 | 1083 | 96 | 1154 | 107 | 1226 | 109 | 1226 | 109 | 1226 | 109 | 1226 | 109 | 1226 | 109 | 1226 | 109 | 1226 | 109 | 1226 | |
| 600 | 840 | 47 | 924 | 66 | 1072 | 94 | 1153 | 111 | 1230 | 126 | 1301 | 140 | 1372 | 148 | 1441 | 155 | 1503 | 165 | 1560 | 181 | 1612 | 203 | 1661 | 229 | 1661 | 229 | 1661 |
| 800 | 990 | 76 | 1072 | 94 | 1153 | 111 | 1230 | 126 | 1301 | 140 | 1372 | 148 | 1441 | 155 | 1503 | 165 | 1560 | 181 | 1612 | 203 | 1661 | 229 | 1661 | 229 | 1661 | 229 | 1661 |
| 1000 | 1179 | 108 | 1253 | 126 | 1326 | 144 | 1397 | 161 | 1464 | 178 | 1530 | 194 | 1530 | 194 | 1590 | 210 | 1646 | 231 | 1696 | 255 | 1744 | 283 | 1790 | 312 | 1836 | 340 | 1880 |
| 1200 | 1388 | 146 | 1454 | 166 | 1519 | 186 | 1582 | 207 | 1641 | 228 | 1697 | 251 | 1749 | 276 | 1797 | 305 | 1842 | 336 | 1885 | 367 | 1929 | 397 | 1929 | 397 | 1929 | 397 | 1929 |
| 1400 | 1606 | 189 | 1661 | 216 | 1715 | 242 | 1768 | 270 | 1818 | 298 | 1866 | 328 | 1911 | 358 | 1953 | 390 | 1995 | 420 | 2037 | 449 | 2079 | 476 | 2121 | 503 | 2163 | 527 | 2216 |
| 1600 | 1794 | 268 | 1842 | 301 | 1890 | 333 | 1938 | 364 | 1984 | 396 | 2029 | 426 | 2073 | 453 | 2115 | 479 | 2157 | 503 | 2199 | 528 | 2240 | 553 | 2281 | 581 | 2321 | 609 | 2374 |
| 1800 | 1991 | 364 | 2035 | 395 | 2079 | 426 | 2123 | 456 | 2167 | 486 | 2210 | 515 | 2252 | 541 | 2294 | 568 | 2334 | 596 | 2374 | 625 | 2412 | 657 | 2448 | 692 | 2484 | 727 | 2537 |
| 2000 | 2202 | 451 | 2242 | 482 | 2283 | 513 | 2323 | 545 | 2363 | 577 | 2402 | 611 | 2440 | 646 | 2477 | 683 | 2512 | 722 | 2546 | 763 | 2579 | 804 | 2613 | 844 | 2645 | 884 | 2698 |
| 2200 | 2408 | 559 | 2446 | 596 | 2483 | 633 | 2520 | 672 | 2555 | 712 | 2590 | 753 | 2623 | 796 | 2655 | 841 | 2686 | 885 | 2717 | 928 | 2748 | 970 | 2780 | 1010 | 2812 | 1050 | 2865 |
| 2400 | 2609 | 703 | 2644 | 744 | 2678 | 786 | 2711 | 829 | 2744 | 872 | 2776 | 916 | 2806 | 961 | 2835 | 1006 | 2865 | 1050 | 2895 | 1092 | 2925 | 1133 | 2955 | 1172 | 2985 | 1212 | 3038 |
| 2600 | 2808 | 874 | 2840 | 916 | 2871 | 959 | 2902 | 1003 | 2932 | 1046 | 2961 | 1090 | 2990 | 1133 | 3019 | 1176 | 3048 | 1217 | 3077 | 1257 | 3106 | 1297 | 3135 | 1336 | 3164 | 1374 | 3217 |
| 2800 | 3006 | 1054 | 3035 | 1096 | 3064 | 1139 | 3092 | 1181 | 3121 | 1223 | 3149 | 1265 | 3177 | 1305 | 3205 | 1344 | 3234 | 1383 | 3262 | 1421 | 3290 | 1460 | 3317 | 1498 | 3345 | 1536 | 3387 |
| 3000 | 3202 | 1228 | 3229 | 1270 | 3257 | 1312 | 3284 | 1353 | 3312 | 1394 | 3339 | 1433 | 3366 | 1472 | 3393 | 1509 | 3419 | 1547 | 3446 | 1584 | 3472 | 1622 | 3499 | 1660 | 3525 | 1698 | 3567 |

Total Static Pressure - in. w.g.

| Total Air cfm | 1.4 | | | | | | 1.5 | | | | | | 1.6 | | | | | | 1.7 | | | | | | 1.8 | | | | | | 1.9 | | | | | | 2.0 | | | | | |
|---------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-----|-----|--|--|
| | 0.1 | | 0.2 | | 0.3 | | 0.4 | | 0.5 | | 0.6 | | 0.7 | | 0.8 | | 0.9 | | 1.0 | | 1.1 | | 1.2 | | 1.3 | | 1.4 | | 1.5 | | 1.6 | | 1.7 | | 1.8 | | 1.9 | | 2.0 | | | |
| | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | | | | |
| 800 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |
| 1000 | 1923 | 389 | 1964 | 411 | 2004 | 431 | 2043 | 450 | 2083 | 468 | 2123 | 486 | 2163 | 504 | 2203 | 522 | 2243 | 540 | 2283 | 558 | 2323 | 576 | 2363 | 594 | 2403 | 612 | 2443 | 630 | 2483 | 648 | 2523 | 666 | 2563 | 684 | 2603 | 702 | 2643 | | | | | |
| 1200 | 2057 | 473 | 2097 | 494 | 2136 | 514 | 2176 | 534 | 2215 | 553 | 2254 | 572 | 2293 | 591 | 2332 | 610 | 2371 | 629 | 2410 | 648 | 2449 | 667 | 2488 | 686 | 2527 | 705 | 2566 | 724 | 2605 | 743 | 2644 | 762 | 2683 | 781 | 2722 | 800 | 2761 | | | | | |
| 1400 | 2205 | 549 | 2245 | 571 | 2284 | 594 | 2322 | 618 | 2360 | 644 | 2396 | 672 | 2432 | 702 | 2468 | 733 | 2501 | 768 | 2532 | 805 | 2563 | 842 | 2594 | 884 | 2625 | 930 | 2656 | 980 | 2687 | 1034 | 2718 | 1092 | 2749 | 1154 | 2780 | 1220 | 2811 | | | | | |
| 1600 | 2360 | 637 | 2398 | 667 | 2434 | 699 | 2468 | 733 | 2501 | 768 | 2532 | 805 | 2563 | 842 | 2594 | 884 | 2625 | 930 | 2656 | 980 | 2687 | 1034 | 2718 | 1092 | 2749 | 1154 | 2780 | 1220 | 2811 | 1290 | 2842 | 1364 | 2873 | 1442 | 2904 | 1524 | 2935 | | | | | |
| 1800 | 2519 | 763 | 2552 | 801 | 2583 | 840 | 2614 | 879 | 2644 | 918 | 2674 | 957 | 2704 | 995 | 2734 | 1034 | 2764 | 1073 | 2794 | 1112 | 2824 | 1151 | 2854 | 1190 | 2884 | 1229 | 2914 | 1268 | 2944 | 1307 | 2974 | 1346 | 3004 | 1385 | 3034 | 1424 | 3064 | | | | | |
| 2000 | 2677 | 924 | 2708 | 963 | 2739 | 1003 | 2769 | 1041 | 2799 | 1080 | 2829 | 1118 | 2859 | 1155 | 2889 | 1194 | 2919 | 1233 | 2949 | 1272 | 2979 | 1311 | 3009 | 1350 | 3039 | 1389 | 3069 | 1428 | 3099 | 1467 | 3129 | 1506 | 3159 | 1545 | 3189 | 1584 | 3219 | | | | | |
| 2200 | 2842 | 1089 | 2873 | 1127 | 2902 | 1166 | 2932 | 1203 | 2962 | 1241 | 2991 | 1278 | 3021 | 1315 | 3051 | 1354 | 3081 | 1393 | 3111 | 1432 | 3141 | 1471 | 3171 | 1510 | 3201 | 1549 | 3231 | 1588 | 3261 | 1627 | 3291 | 1666 | 3321 | 1705 | 3351 | 1744 | 3381 | | | | | |
| 2400 | 3015 | 1250 | 3044 | 1289 | 3074 | 1327 | 3103 | 1364 | 3132 | 1402 | 3162 | 1439 | 3192 | 1476 | 3222 | 1515 | 3252 | 1554 | 3282 | 1593 | 3312 | 1632 | 3342 | 1671 | 3372 | 1710 | 3402 | 1749 | 3432 | 1788 | 3462 | 1827 | 3492 | 1866 | 3522 | 1905 | 3552 | | | | | |
| 2600 | 3192 | 1412 | 3221 | 1450 | 3250 | 1488 | 3279 | 1525 | 3308 | 1562 | 3337 | 1599 | 3367 | 1635 | 3397 | 1674 | 3427 | 1713 | 3457 | 1752 | 3487 | 1791 | 3517 | 1830 | 3547 | 1869 | 3577 | 1908 | 3607 | 1947 | 3637 | 1986 | 3667 | 2025 | 3697 | 2064 | 3727 | | | | | |
| 2800 | 3372 | 1574 | 3400 | 1611 | 3428 | 1648 | 3456 | 1685 | 3485 | 1721 | 3514 | 1758 | 3543 | 1794 | 3573 | 1830 | 3603 | 1867 | 3633 | 1904 | 3663 | 1941 | 3693 | 1978 | 3723 | 2015 | 3753 | 2052 | 3783 | 2089 | 3813 | 2126 | 3843 | 2163 | 3873 | 2200 | 3903 | | | | | |
| 3000 | 3552 | 1735 | 3578 | 1772 | 3605 | 1808 | 3633 | 1844 | 3660 | 1880 | 3689 | 1916 | 3717 | 1952 | 3747 | 1988 | 3777 | 2024 | 3807 | 2060 | 3837 | 2096 | 3867 | 2132 | 3897 | 2168 | 3927 | 2204 | 3957 | 2240 | 3987 | 2276 | 4017 | 2312 | 4047 | 2348 | 4077 | | | | | |

BLOWER DATA

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

| Air Volume cfm | Wet Indoor Coil | | Gas Heating | | | Economizer | Filters | |
|----------------|-----------------|------|---------------|-------------|-----------|------------|---------|---------|
| | 024, 036, 048 | 060 | Standard Heat | Medium Heat | High Heat | | MERV 8 | MERV 13 |
| 800 | 0.01 | --- | 0.02 | 0.02 | 0.02 | 0.04 | 0.04 | 0.05 |
| 1000 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.04 | 0.04 | 0.07 |
| 1200 | 0.03 | 0.04 | 0.02 | 0.02 | 0.02 | 0.04 | 0.04 | 0.07 |
| 1400 | 0.04 | 0.05 | 0.02 | 0.02 | 0.03 | 0.04 | 0.04 | 0.07 |
| 1600 | 0.05 | 0.07 | 0.02 | 0.03 | 0.04 | 0.04 | 0.04 | 0.07 |
| 1800 | 0.06 | 0.08 | 0.03 | 0.04 | 0.05 | 0.05 | 0.04 | 0.07 |
| 2000 | 0.08 | 0.10 | 0.03 | 0.04 | 0.06 | 0.05 | 0.05 | 0.08 |
| 2200 | --- | 0.11 | 0.04 | 0.04 | 0.07 | 0.05 | 0.05 | 0.08 |
| 2400 | --- | 0.13 | 0.04 | 0.05 | 0.08 | 0.05 | 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 |

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

| Air Volume - cfm | RTD11-95S Step-Down Diffuser | | | FD11-95S Flush Diffuser |
|------------------|------------------------------|----------------------|-----------------------|-------------------------|
| | 2 Ends Open | 1 Side & 2 Ends Open | All Ends & Sides Open | |
| 1800 | 0.13 | 0.11 | 0.09 | 0.09 |
| 2000 | 0.15 | 0.13 | 0.11 | 0.10 |
| 2200 | 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. | |
|------------------|------------------------------------|----------|
| | RTD11-95S | FD11-95S |
| 2600 | 24 - 29 | 19 - 24 |
| 2800 | 25 - 30 | 20 - 28 |
| 3000 | 27 - 33 | 21 - 29 |

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

ELECTRICAL DATA**2 TON**

| Model No. | | LDT024H4 | |
|--|-----------------------------------|-----------------|--|
| ¹ Voltage - 60Hz | | 208/230V - 1 Ph | |
| Compressor (Non-Inverter) | Rated Load Amps | 15.3 | |
| | Locked Rotor Amps | 83 | |
| Outdoor Fan Motor | Full Load Amps (1 ECM) | 2.8 | |
| Power Exhaust (1) 0.33 HP | Full Load Amps | 2.4 | |
| Service Outlet 115V GFI (amps) | | 15 | |
| Indoor Blower Motor | Horsepower | 0.5 | |
| | Full Load Amps | 4.3 | |
| ² Maximum Overcurrent Protection (MOCP) | Unit Only | 40 | |
| | With (1) 0.33 HP Power Exhaust | 40 | |
| ³ Minimum Circuit Ampacity (MCA) | Unit Only | 27 | |
| | With (1) 0.33 HP Power Exhaust | 29 | |

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.**ELECTRICAL DATA****3 TON**

| Model No. | | LDT036H4 | | | | | | |
|--|-----------------------------------|-----------------|-----------------|-----|-------------|-----|-------------|-----|
| ¹ Voltage - 60Hz | | 208/230V - 1 Ph | 208/230V - 3 Ph | | 460V - 3 Ph | | 575V - 3 Ph | |
| Compressor (Non-Inverter) | Rated Load Amps | 15.3 | 11.6 | | 5.7 | | 4 | |
| | Locked Rotor Amps | 83 | 73 | | 38 | | 25.6 | |
| Outdoor Fan Motor | Full Load Amps (1 ECM) | 2.8 | 2.8 | | 1.4 | | 1.1 | |
| Power Exhaust (1) 0.33 HP | Full Load Amps | 2.4 | 2.4 | | 1.3 | | 1 | |
| Service Outlet 115V GFI (amps) | | 15 | 15 | | 15 | | 20 | |
| Indoor Blower Motor | Horsepower | 0.5 | 0.5 | 1.5 | 0.5 | 1.5 | 0.5 | 1.5 |
| | Full Load Amps | 4.3 | 4.3 | 4.4 | 2.2 | 2.3 | 1.7 | 2.3 |
| ² Maximum Overcurrent Protection (MOCP) | Unit Only | 40 | 30 | 30 | 15 | 15 | 15 | 15 |
| | With (1) 0.33 HP Power Exhaust | 40 | 35 | 35 | 15 | 15 | 15 | 15 |
| ³ Minimum Circuit Ampacity (MCA) | Unit Only | 27 | 22 | 22 | 11 | 11 | 8 | 9 |
| | With (1) 0.33 HP Power Exhaust | 29 | 24 | 25 | 13 | 13 | 9 | 10 |

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.

ELECTRICAL DATA**4 TON**

| Model No. | | LDT048H4 | | | | | | | |
|--|-----------------------------------|-----------------|-----------------|-----|-------------|-----|-------------|-----|--|
| ¹ Voltage - 60Hz | | 208/230V - 1 Ph | 208/230V - 3 Ph | | 460V - 3 Ph | | 575V - 3 Ph | | |
| Compressor (Non-Inverter) | Rated Load Amps | 21.2 | 14 | | 6.4 | | 4.6 | | |
| | Locked Rotor Amps | 104 | 83.1 | | 41 | | 33 | | |
| Outdoor Fan Motor | Full Load Amps (1 ECM) | 2.8 | 2.8 | | 1.4 | | 1.1 | | |
| Power Exhaust (1) 0.33 HP | Full Load Amps | 2.4 | 2.4 | | 1.3 | | 1 | | |
| Service Outlet 115V GFI (amps) | | 15 | 15 | | 15 | | 20 | | |
| Indoor Blower Motor | Horsepower | 1 | 1 | 1.5 | 1 | 1.5 | 1 | 1.5 | |
| | Full Load Amps | 7.4 | 7.4 | 4.4 | 3.7 | 2.3 | 3 | 2.3 | |
| ² Maximum Overcurrent Protection (MOCP) | Unit Only | 50 | 40 | 35 | 15 | 15 | 15 | 15 | |
| | With (1) 0.33 HP Power Exhaust | 60 | 40 | 40 | 20 | 15 | 15 | 15 | |
| ³ Minimum Circuit Ampacity (MCA) | Unit Only | 37 | 28 | 25 | 14 | 12 | 10 | 10 | |
| | With (1) 0.33 HP Power Exhaust | 40 | 31 | 28 | 15 | 14 | 11 | 11 | |

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.**ELECTRICAL DATA****5 TON**

| Model No. | | LDT060H4 | | | | | | | |
|--|-----------------------------------|-----------------|-----------------|-----|-------------|-----|-------------|-----|--|
| ¹ Voltage - 60Hz | | 208/230V - 1 Ph | 208/230V - 3 Ph | | 460V - 3 Ph | | 575V - 3 Ph | | |
| Compressor (Non-Inverter) | Rated Load Amps | 23.7 | 16.7 | | 7.1 | | 5.7 | | |
| | Locked Rotor Amps | 151 | 110 | | 54.7 | | 47.8 | | |
| Outdoor Fan Motor | Full Load Amps (1 ECM) | 2.8 | 2.8 | | 1.4 | | 1.1 | | |
| Power Exhaust (1) 0.33 HP | Full Load Amps | 2.4 | 2.4 | | 1.3 | | 1 | | |
| Service Outlet 115V GFI (amps) | | 15 | 15 | | 15 | | 20 | | |
| Indoor Blower Motor | Horsepower | 1 | 1 | 1.5 | 1 | 1.5 | 1 | 1.5 | |
| | Full Load Amps | 7.4 | 7.4 | 4.4 | 3.7 | 2.3 | 3 | 2.3 | |
| ² Maximum Overcurrent Protection (MOCP) | Unit Only | 60 | 45 | 40 | 20 | 15 | 15 | 15 | |
| | With (1) 0.33 HP Power Exhaust | 60 | 50 | 45 | 20 | 20 | 15 | 15 | |
| ³ Minimum Circuit Ampacity (MCA) | Unit Only | 40 | 32 | 29 | 14 | 13 | 12 | 11 | |
| | With (1) 0.33 HP Power Exhaust | 43 | 34 | 31 | 16 | 14 | 13 | 12 | |

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.**FIELD WIRING NOTES**

- For use with copper wiring only
- Field wiring not furnished
- All wiring must conform to NEC or CEC and local electrical codes
- For specific wiring information, please refer to the installation instructions

OUTDOOR SOUND DATA

| 1 Unit Model No. | Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts Center Frequency - Hz | | | | | | | 1 Sound Rating Number dBA |
|---------------------|--|-----|-----|------|------|------|------|---------------------------------|
| | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| 024, 036, 048 | 63 | 66 | 70 | 71 | 68 | 62 | 53 | 75 |
| 060 | 67 | 72 | 77 | 76 | 73 | 68 | 61 | 82 |

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

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

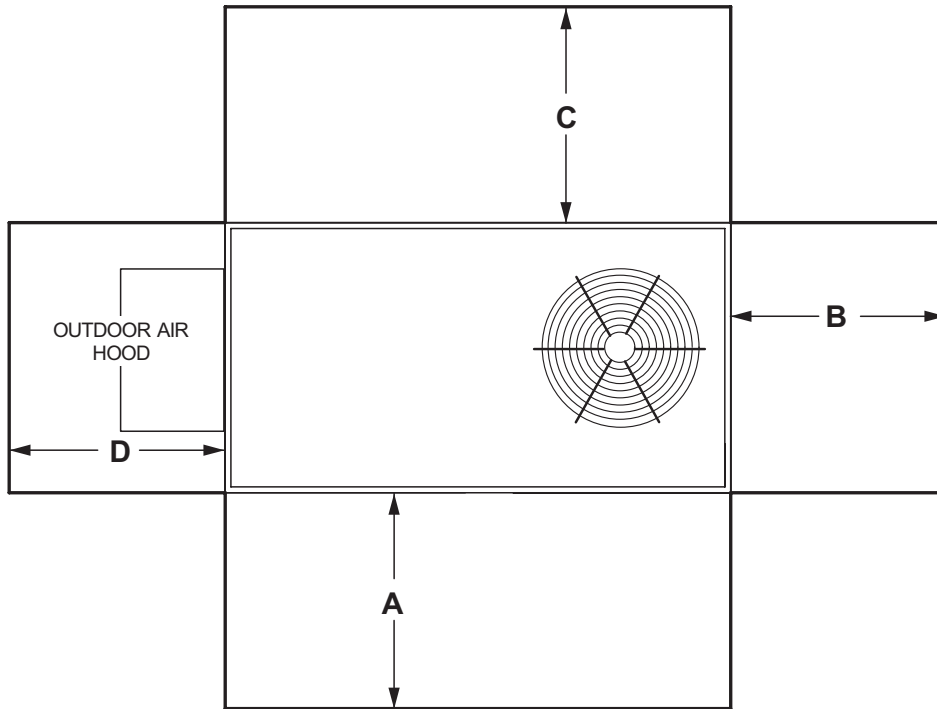
WEIGHT DATA

| Model Number | UNIT | | | |
|---------------|------|-----|----------|-----|
| | Net | | Shipping | |
| | lbs. | kg | lbs. | kg |
| 024 Base Unit | 675 | 306 | 715 | 324 |
| 024 Max. Unit | 813 | 369 | 853 | 387 |
| 036 Base Unit | 674 | 306 | 714 | 324 |
| 036 Max. Unit | 812 | 368 | 852 | 386 |
| 048 Base Unit | 670 | 304 | 710 | 322 |
| 048 Max. Unit | 808 | 367 | 848 | 385 |
| 060 Base Unit | 715 | 324 | 756 | 343 |
| 060 Max. Unit | 840 | 381 | 881 | 400 |

OPTIONS / ACCESSORIES

| | Shipping Weight | | |
|---|-----------------|----|----|
| | lbs. | kg | |
| ECONOMIZER / OUTDOOR AIR / EXHAUST | | | |
| Economizer | | | |
| Economizer, Includes Combination Outdoor Air Hood and Barometric Relief Dampers | 131 | 59 | |
| Outdoor Air Dampers | | | |
| Motorized | 40 | 18 | |
| Manual | 30 | 14 | |
| Power Exhaust | 35 | 17 | |
| GAS HEAT | | | |
| Medium Heat (adder over low heat) | 8 | 4 | |
| High Heat (adder over standard heat) | 19 | 9 | |
| COMBINATION COIL/HAIL GUARDS | | | |
| All models | 31 | 14 | |
| ROOF CURBS | | | |
| Hybrid Roof Curbs, Downflow | | | |
| 8 in. height | 86 | 39 | |
| 14 in. height | 108 | 49 | |
| 18 in. height | 125 | 57 | |
| 24 in. height | 147 | 67 | |
| Adjustable Pitch Curb, Downflow | | | |
| 14 in. height | 147 | 67 | |
| CEILING DIFFUSERS | | | |
| Step-Down | RTD9-65S | 80 | 36 |
| Flush | FD9-65S | 80 | 36 |
| Transitions | T1TRAN10AN1 | 22 | 10 |

UNIT CLEARANCES



| ¹ Unit Clearance | A | | B | | C | | D | | Top Clearance |
|-----------------------------|-----|------|-----|-----|-----|-----|-----|-----|---------------|
| | in. | mm | in. | mm | in. | mm | in. | mm | |
| Service Clearance | 48 | 1219 | 36 | 914 | 36 | 934 | 36 | 914 | Unobstructed |
| Clearance to Combustibles | 36 | 914 | 1 | 25 | 1 | 25 | 1 | 25 | |
| Minimum Operation Clearance | 36 | 914 | 36 | 914 | 36 | 914 | 36 | 914 | |

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

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

Clearance to Combustibles - Required clearance to combustible material.

Minimum Operation Clearance - Required clearance for proper unit operation.

DIMENSIONS

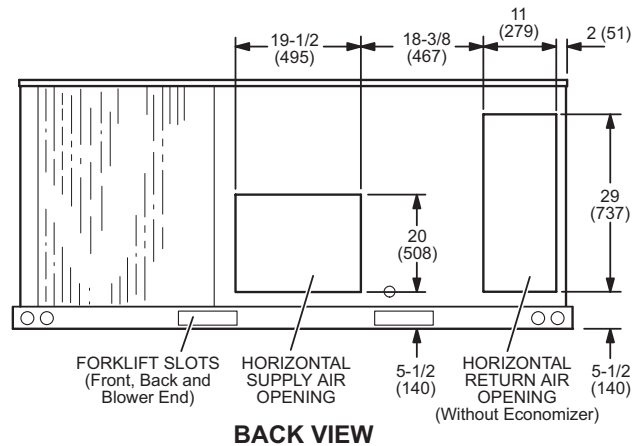
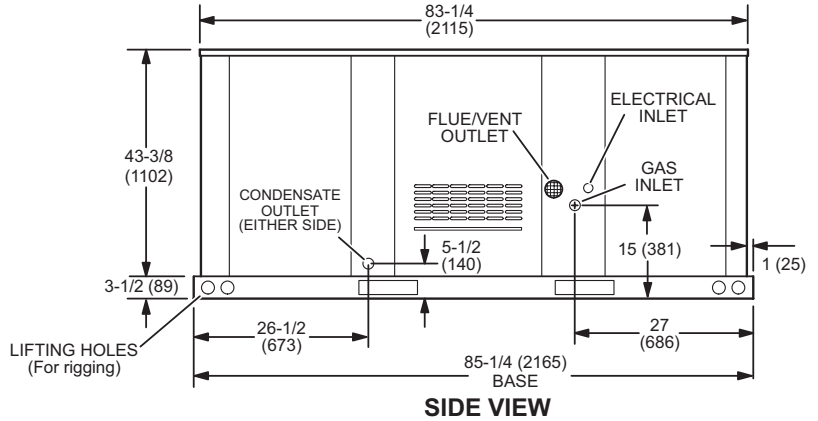
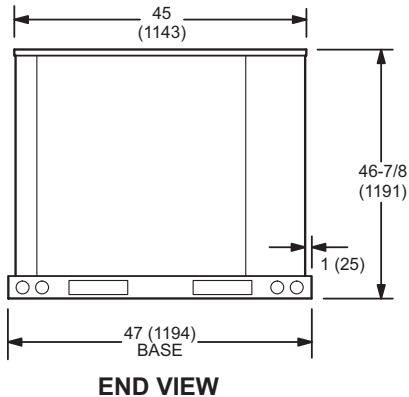
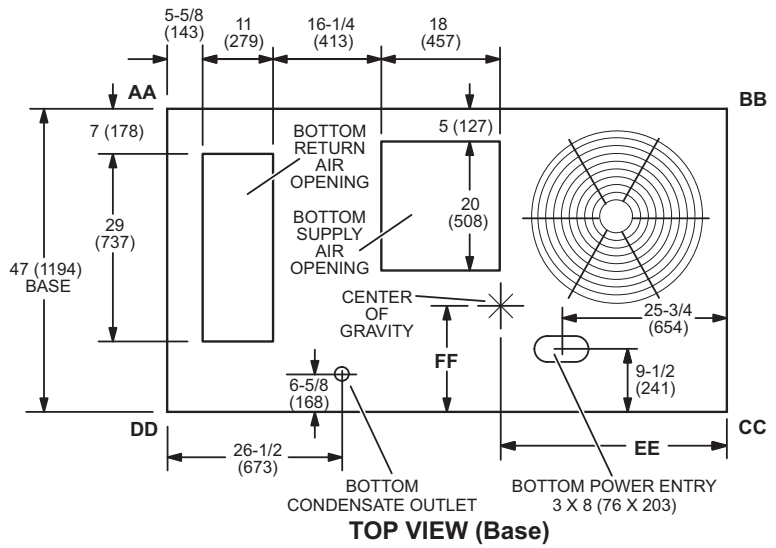
UNIT

CORNER WEIGHTS

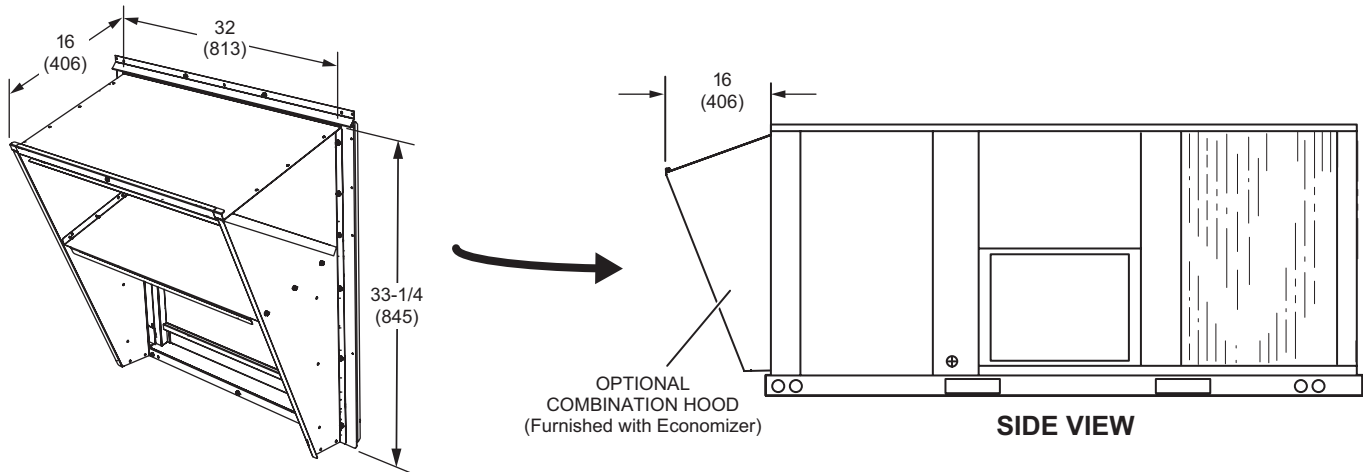
| Model No. | AA | | BB | | CC | | DD | | EE | | FF | |
|------------------|------------------|-----|------|-----|------|-----|------|-----|-----|------|-----|-----|
| | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | in. | mm | in. | mm |
| | LDT024 Base Unit | 144 | 65 | 172 | 78 | 195 | 88 | 164 | 74 | 38 | 965 | 22 |
| LDT024 Max. Unit | 192 | 87 | 189 | 86 | 214 | 97 | 218 | 99 | 42 | 1067 | 22 | 559 |
| LDT036 Base Unit | 144 | 65 | 171 | 78 | 195 | 88 | 164 | 74 | 38 | 965 | 22 | 559 |
| LDT036 Max. Unit | 192 | 87 | 188 | 85 | 214 | 97 | 218 | 99 | 42 | 1067 | 22 | 559 |
| LDT048 Base Unit | 143 | 65 | 170 | 77 | 194 | 88 | 163 | 74 | 38 | 965 | 22 | 559 |
| LDT048 Max. Unit | 191 | 87 | 187 | 85 | 213 | 97 | 217 | 98 | 42 | 1067 | 22 | 559 |
| LDT060 Base Unit | 181 | 82 | 154 | 70 | 175 | 79 | 206 | 93 | 45 | 1143 | 22 | 559 |
| LDT060 Max. Unit | 241 | 109 | 152 | 69 | 173 | 78 | 274 | 124 | 51 | 1295 | 22 | 559 |

Base Unit - The unit with NO INTERNAL OPTIONS.

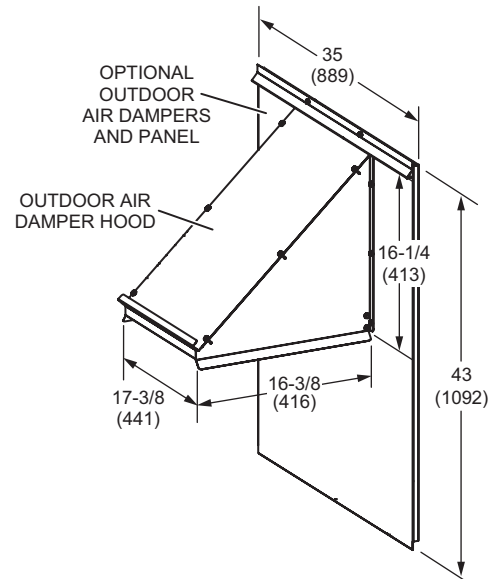
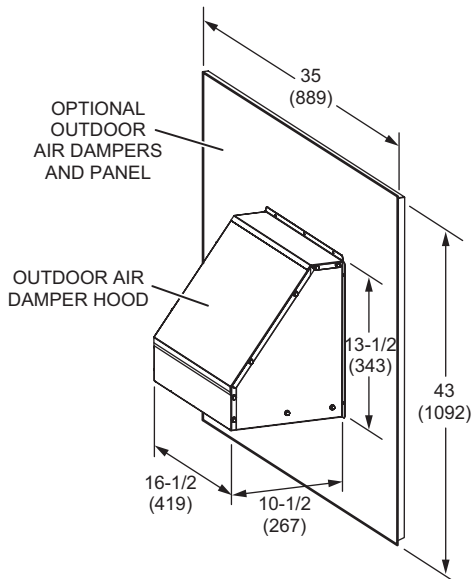
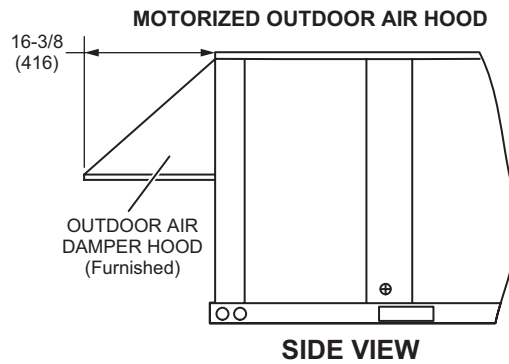
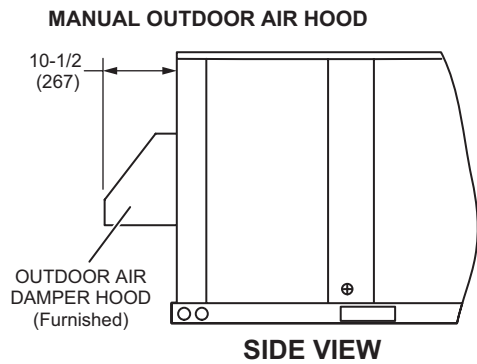
Max. Unit - The unit with ALL INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit or high static power exhaust.



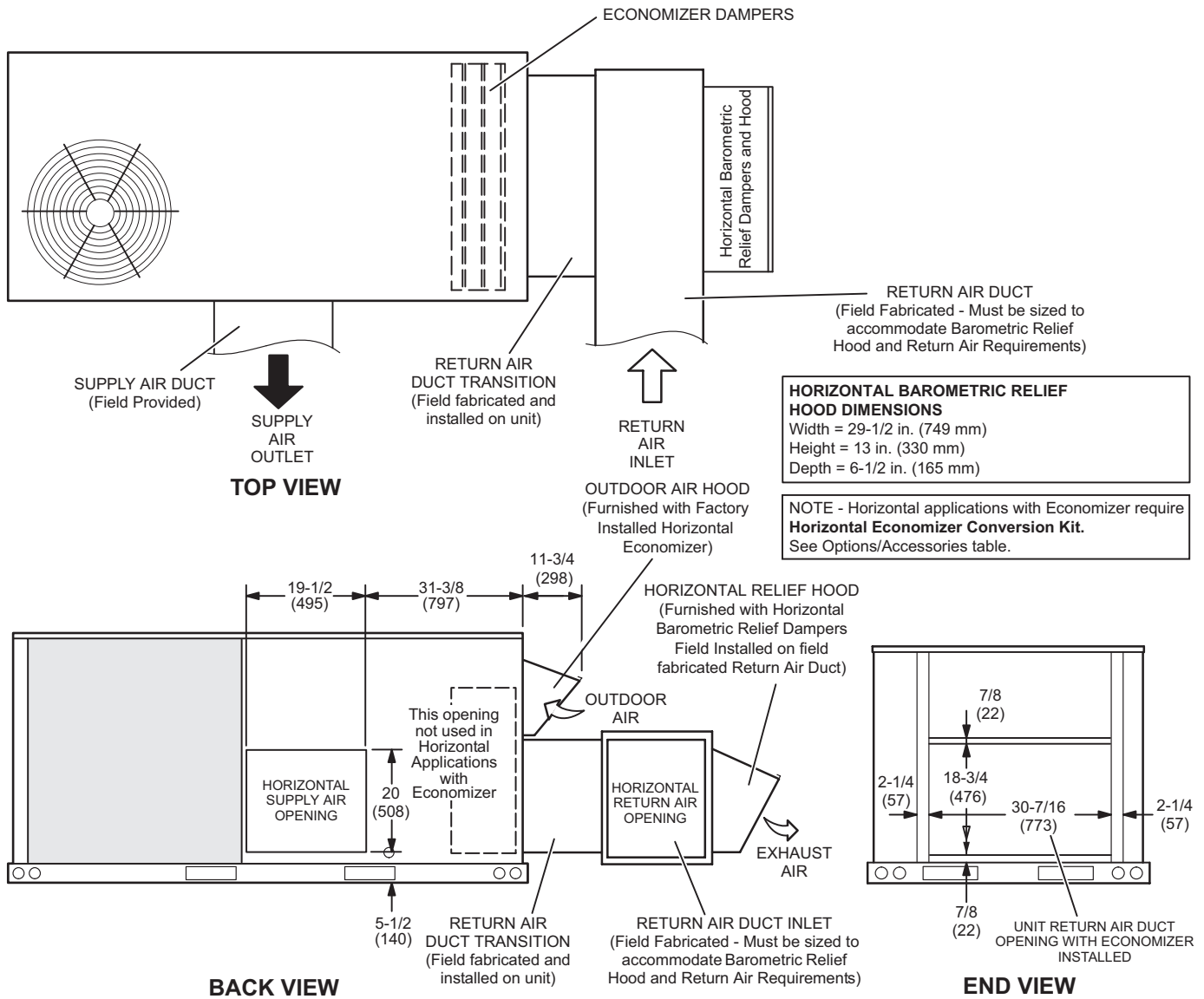
**COMBINATION OUTDOOR AIR HOOD DETAIL FOR OPTIONAL ECONOMIZER AND BAROMETRIC RELIEF DAMPERS
(Furnished With Economizer for Downflow Applications)**



OUTDOOR AIR DAMPER HOOD DETAIL (Downflow or Horizontal Applications)

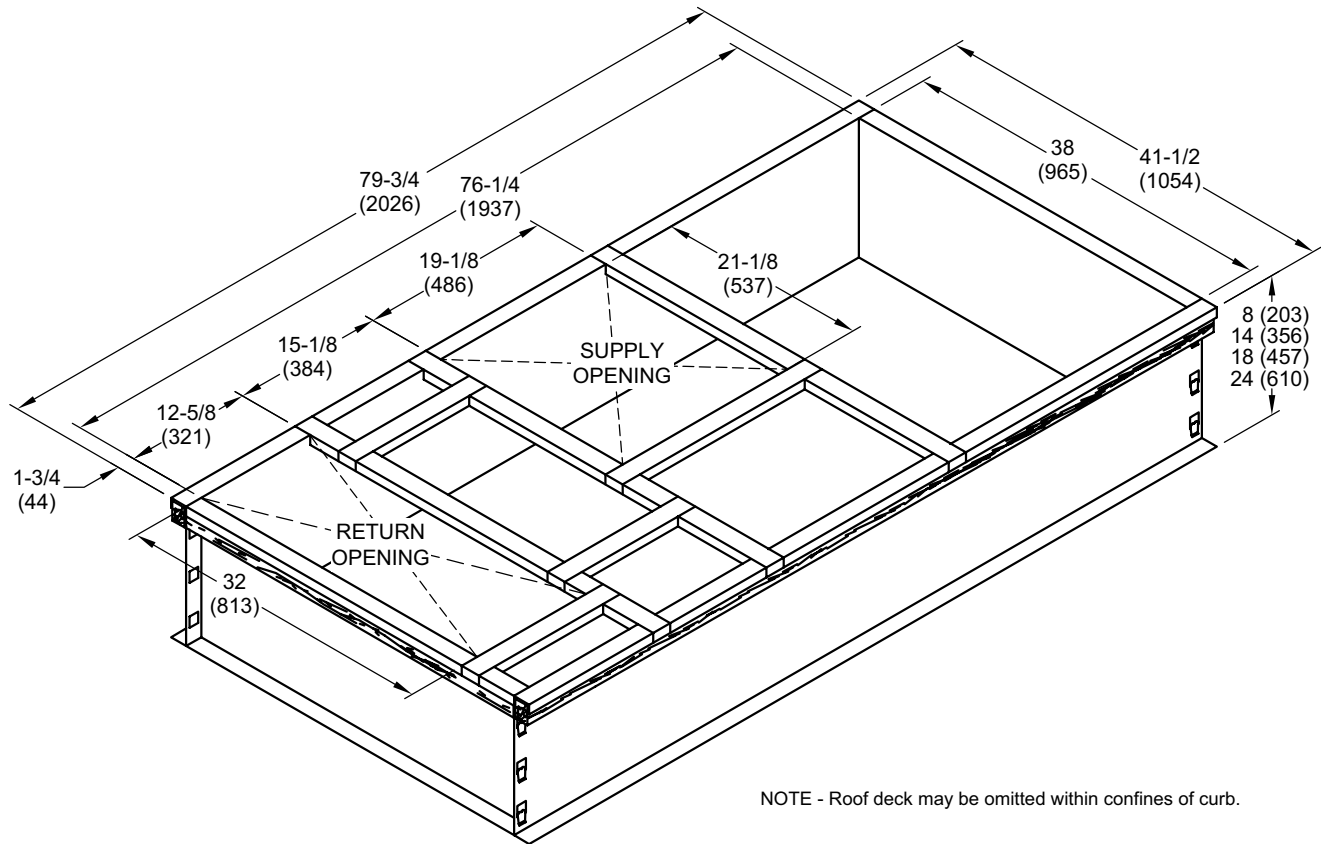


HORIZONTAL ECONOMIZER APPLICATIONS - OUTDOOR AIR HOOD DETAIL WITH OPTIONAL ECONOMIZER DAMPERS AND OPTIONAL HORIZONTAL BAROMETRIC RELIEF DAMPERS AND HOOD



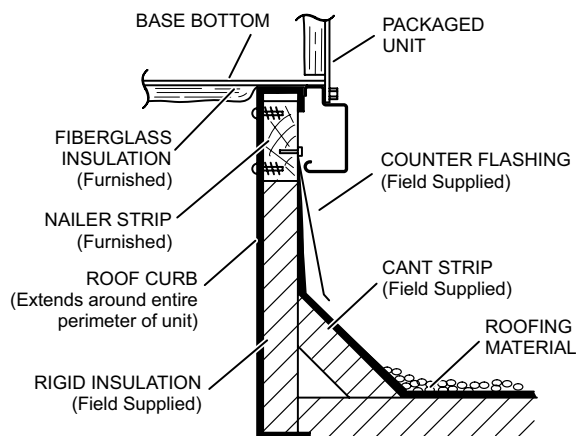
NOTE - Return Air Duct and Transition must be supported.

HYBRID ROOF CURBS - DOUBLE DUCT OPENING

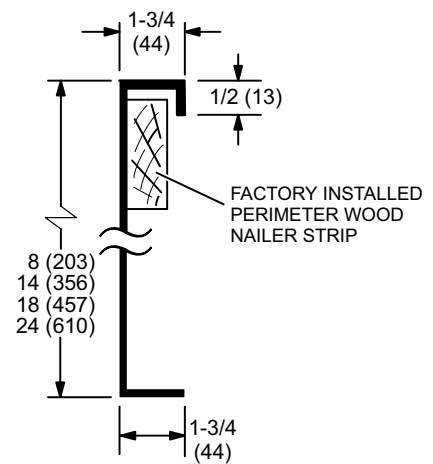


NOTE - Roof deck may be omitted within confines of curb.

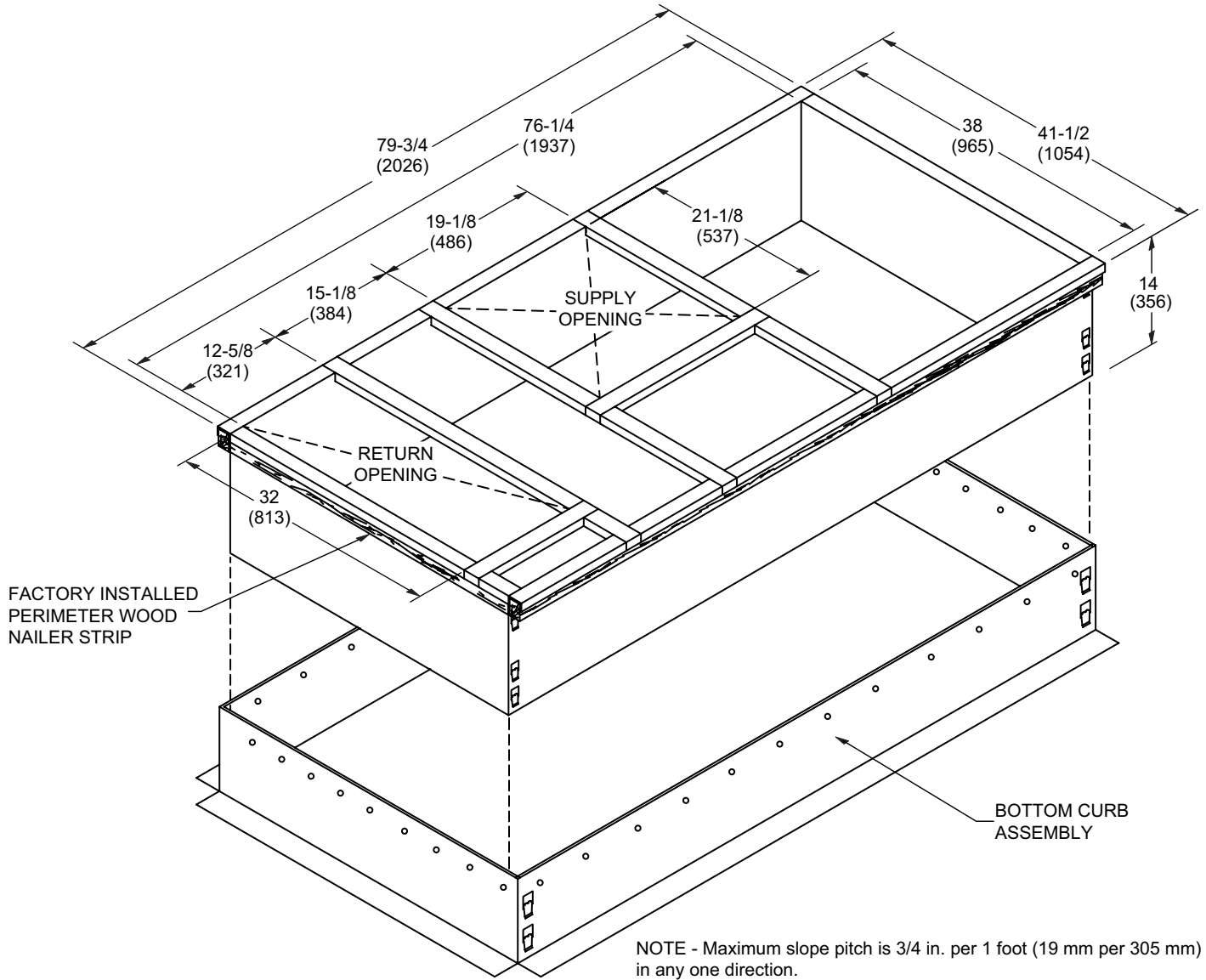
TYPICAL FLASHING DETAIL FOR ROOF CURB



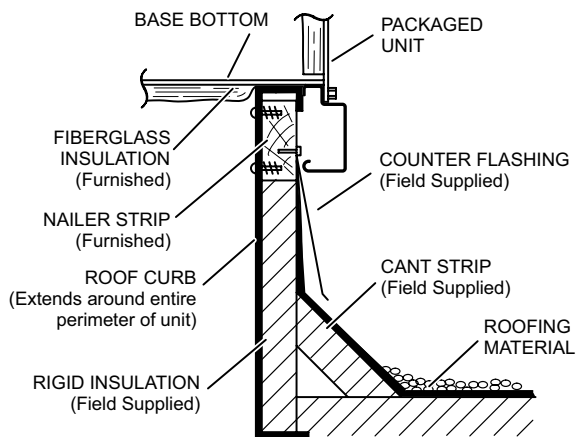
DETAIL ROOF CURB



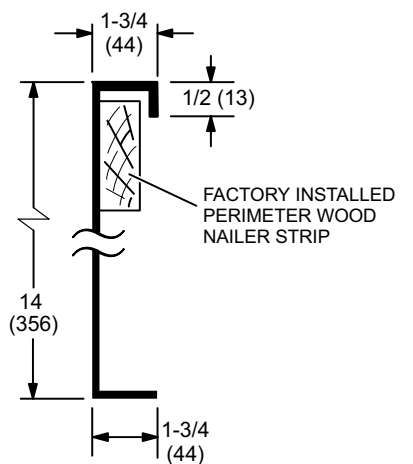
ADJUSTABLE PITCH CURBS - DOUBLE DUCT OPENING



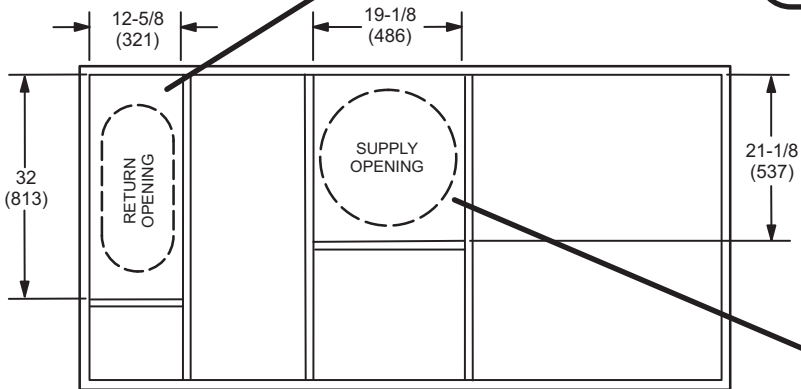
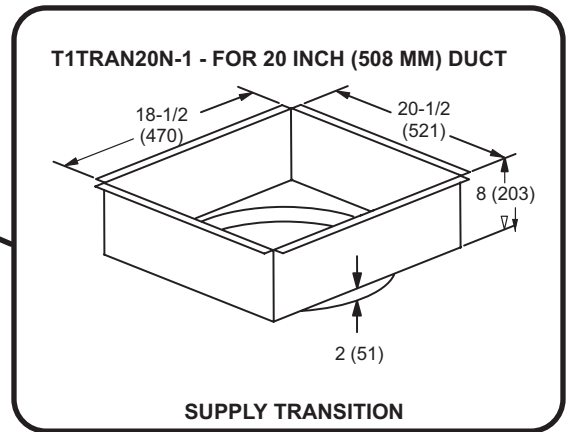
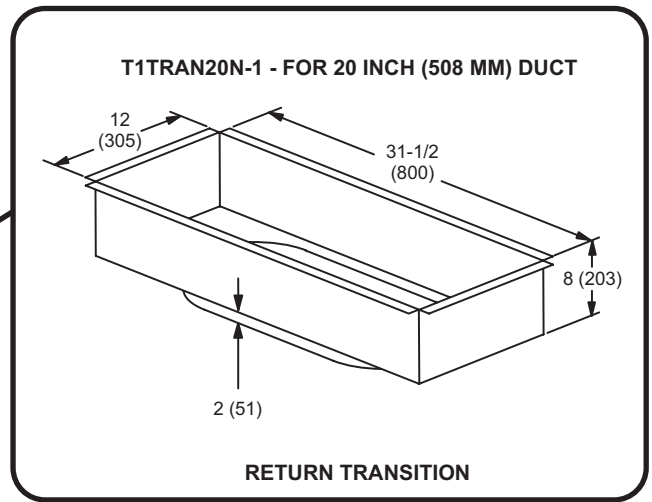
TYPICAL FLASHING DETAIL FOR ROOF CURB



DETAIL ROOF CURB

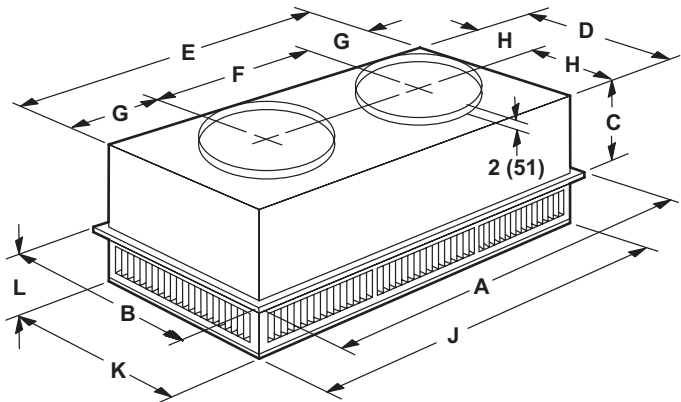


TRANSITIONS

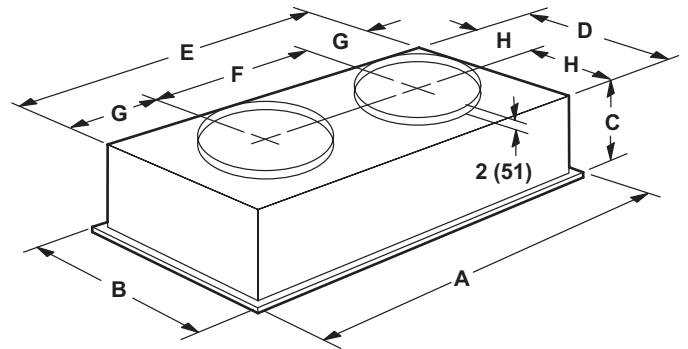


COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER



FLUSH CEILING DIFFUSER



| Model Number | | RTD11-95S |
|--------------|-----|-----------|
| A | in. | 47-5/8 |
| | mm | 1159 |
| B | in. | 29-5/8 |
| | mm | 752 |
| C | in. | 14-3/8 |
| | mm | 365 |
| D | in. | 27-1/2 |
| | mm | 699 |
| E | in. | 45-1/2 |
| | mm | 1158 |
| F | in. | 22-1/2 |
| | mm | 572 |
| G | in. | 11-1/2 |
| | mm | 292 |
| H | in. | 13-3/4 |
| | mm | 349 |
| J | in. | 45-1/2 |
| | mm | 1156 |
| K | in. | 27-1/2 |
| | mm | 699 |
| L | in. | 8-1/8 |
| | mm | 206 |
| Duct Size | in. | 20 round |
| | mm | 508 round |

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

REVISIONS

| Sections | Description of Change |
|-------------|----------------------------|
| Weight Data | Updated Roof Curb weights. |



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