


**COMMERCIAL
PRODUCT SPECIFICATIONS**

ZCB
Raider® Rooftop Units
50 Hz

Bulletin No. 490182
 March 2021
 Supersedes April 2019



RAIDER®
 Value Without Compromise®



10.5 to 21 kW (3 to 6 Tons)
Net Cooling Capacity – 8.8 to 16.9 kW (30 200 to 57 500 Btuh)
Optional Electric Heat - 3.8 to 23 kW

MODEL NUMBER IDENTIFICATION

Z C B 060 S 4 B N 1 M

Brand/Family
 Z = Raider® Product Line

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

Major Design Sequence
 A = 1st Generation
 B = 2nd Generation

Nominal Cooling Capacity
 036 = 10.5 kW (3 Ton)
 048 = 14.0 kW (4 Ton)
 060 = 17.5 kW (5 Ton)
 074 = 21 kW (6 Ton)

Cooling Efficiency
 S = Standard Efficiency

Refrigerant Type
 4 = R-410A

Voltage
 M = 380/420V-3 phase-50Hz

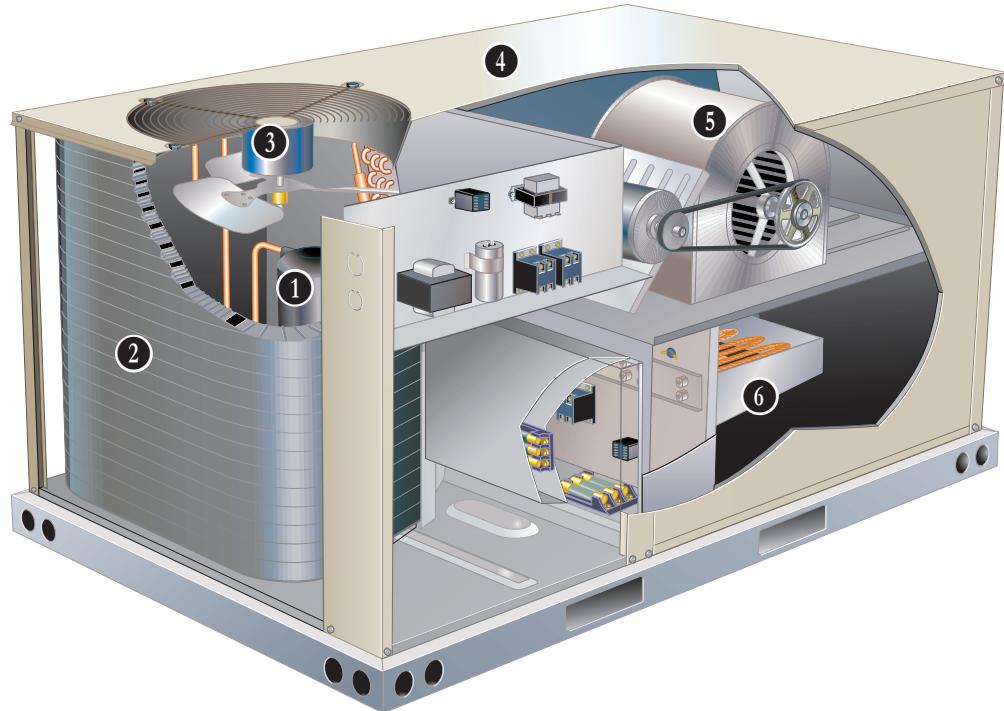
Minor Design Sequence
 1 = 1st Revision
 2 = 2nd Revision
 3 = 3rd Revision

Factory Installed Electric Heat
 N = No Heat

Blower Type
 B = Belt Drive
 T = Belt Drive (2 Speed)

FEATURE HIGHLIGHTS

Raider® rooftop units from Lennox are the new standard for cost efficient, reliable rooftop units built for long-lasting performance that can significantly improve indoor environments.



1. Scroll Compressor
2. Lennox' Environ™ Coil System
3. Outdoor Coil Fan Motor
4. Heavy Gauge Steel Cabinet
5. Supply Air Blower
6. Electric Heat (option)

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APPROVALS

PERFORMANCE / QUALITY

- Components bonded for grounding to meet safety standards for servicing required by Underwriters Laboratories (UL) and the International Electrotechnical Commission (IEC).
- Cooling performance is rated at test conditions included in Air- Conditioning, Heating and Refrigeration Institute (AHRI) Standards 210/240-2008 and 340/360-2007 while operating at rated voltage and air volumes.
- International Organization for Standardization (ISO) 9001 Registered Manufacturing Quality System.

FEATURES AND BENEFITS

COOLING SYSTEM

- Designed to maximize sensible and latent cooling performance at design conditions
- System can operate from 2°C to 52°C without any additional controls

R-410A Refrigerant

- Non-chlorine based
- Ozone friendly, R-410A
- Unit is factory pre-charged with refrigerant; see Specifications Table

1 Single Speed Scroll Compressor (036 through 060)

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

Two-Stage Compressor (074 Models)

- Two-stage scroll compressors for increased part load efficiency, high performance, reliability and quiet operation
- Resiliently mounted on rubber grommets for quiet operation

Compressor Crankcase Heater

- Protects against refrigerant migration that can occur during low ambient operation

Thermal Expansion Valve (074 Models)

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

Refrigerant Metering Orifice (036 through 060 Models)

- Accurately meters refrigerant in system
- Refrigerant control is accomplished by exact sizing of refrigerant metering orifice

High Pressure Switch

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

Filter/Drier

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

2 Lennox' Environ™ Coil System

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



Environ™ Coil System Features:

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

Evaporator Coil

- Copper tube construction
- Enhanced rippled-edge aluminum fins
- Flared shoulder tubing connections
- Silver soldered construction
- Factory leak tested
- Cross row circuiting with rifled tubing

Condensate Drain Pan

- Plastic pan, sloped to meet drainage requirements of ASHRAE 62.1
- End drain connection

FEATURES AND BENEFITS

COOLING SYSTEM (continued)

3 Outdoor Coil Fan Motor

- Thermal overload protected
- Totally enclosed
- Permanently lubricated bearings
- Shaft down
- Fan guard mount

Outdoor Coil Fan Guard

- Polyvinyl chloride (PVC) coated fan guard furnished

Required Selections

Cooling Capacity

- Specify nominal cooling capacity

Options / Accessories

Field Installed

Condensate Drain Trap

- Available in copper or polyvinyl chloride (PVC)

Drain Pan Overflow Switch

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

Low Ambient Kit

- Cycles the outdoor fans while allowing compressor operation in the cooling cycle
- Intermittent fan operation allows the system to operate without icing the evaporator coil and losing capacity
- Designed for use in ambient temperatures no lower than -18°C

NOTE - A crankcase heater must be installed on the compressor.

CABINET

4 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 - Units can be field converted to horizontal airflow.

Power Entry

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

NOTE - Optional Bottom Power Entry Kit is available.

Exterior Panels

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

Insulation

- Fully insulated with non-hygroscopic fiberglass insulation (conditioned areas)

Access Panels

- Compressor
- Heating
- Controls
- Blower
- Air filter/economizer section

Options / Accessories

Factory Installed

Corrosion Protection

- Completely flexible immersed coating
- Electrodeposited dry film process (AST ElectroFin E-Coat)
- Meets Mil Spec MIL-P-53084, ASTM B117 Standard Method Salt Spray Testing
- Indoor Corrosion Protection
 - Coated coil
- Outdoor Corrosion Protection
 - Coated coil

Field Installed

Combination Coil/Hail Guards

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

CONTROLS

Unit Control

- All control voltage is provided via a 24V (secondary) transformer with inline fuse protection
- **Heat/Cool Staging** - Capable of up to 1 heat / 2 cool staging with a thermostat
- **Night Setback Mode** - Saves energy by closing outdoor air dampers and operating supply fan on thermostat demand only

Options / Accessories

Field Installed

Smoke Detectors

NOTE - Smoke detectors are not available and must be field provided by installer.

Thermostats

- Control system and thermostat options, see page 8

FEATURES AND BENEFITS

BLOWER

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

Motor

- Overload protected
- Ball bearings
- Belt drive motors are offered on all models and are available in several different sizes to maximize air performance
- Two-speed belt drive motor (low static/high static) is available on 074 models

Required Selections

5 Supply Air Blower

- Forward curved blades
- Blower wheel statically and dynamically balanced
- Ball bearings
- Adjustable pulley (allows speed change)

ELECTRICAL

Marked & Color-Coded Wiring

- All electrical wiring is color-coded and marked to identify which components it is connecting

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

Field Installed

6 Electric Heat

- Helix wound nichrome elements
- Individual element limit controls
- Wiring harness

NOTE - See Options / Accessories tables for ordering information.

NOTE - Unit Fuse Block is required and must be ordered separately. See Electrical / Electric Heat tables for ordering information.

INDOOR AIR QUALITY

Air Filters

- Disposable 51 mm filters furnished as standard

Options / Accessories

Field Installed

Indoor Air Quality (CO₂) Sensor

- Monitors CO₂ levels adjusts economizer dampers as needed for Demand Control Ventilation

OPTIONS / ACCESSORIES

ECONOMIZER

Factory or Field Installed

Economizer (Downflow or Horizontal) (Standard and High Performance Common Features)

- Outdoor Air Hood is furnished
- Includes Barometric Relief Dampers with Exhaust Hood
- Barometric Relief Dampers allow relief of excess air,
- Aluminum blade dampers prevent blow back and outdoor air infiltration during off cycle
- Exhaust hood with bird screen furnished
- Demand Control Ventilation (DCV) ready using optional CO₂ sensors
- Single temperature control is furnished with Economizer
- Outdoor air sensor enables Economizer if the outdoor temperature is less than the setpoint of the control

NOTE - Horizontal Economizer is field installed only.

Standard Economizer Features

- Gear-driven action
- Return air and outdoor air dampers
- Plug-in connections to unit
- Nylon bearings
- Neoprene seals
- 24-volt
- Fully-modulating spring return motor

Standard Economizer Control Module

The Standard Economizer Control Module can be adjusted to operate based on outdoor air temperatures



Economizer Controls:

- **Damper Minimum Position** - Can be set lower than traditional minimum air requirements resulting in cost savings
- **IAQ Sensor** - Signals dampers to modulate and maintain 13°C when CO₂ is higher than the CO₂ setpoint
- **Demand Control Ventilation (DCV) LED** - A steady green Demand Control Ventilation LED indicates the IAQ reading is higher than setpoint and requires more fresh air
- **Free Cool LED** - A steady green LED indicates outdoor air is suitable for free cooling

NOTE - Free Cooling runs when outdoor air temperature is lower than the set temperature on the economizer control.

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

High Performance Economizer Features

- Low leakage dampers are Air Movement and Control Association International (AMCA) Class 1A Certified - Maximum 3 CFM per sq. ft. leakage at 1 in. w.g.
- ASHRAE 90.1-2010 compliant
- Gear-driven action
- High torque 24-volt fully-modulating spring return damper motor
- Return air and outdoor air dampers
- Plug-in connections to unit
- Stainless steel bearings
- Enhanced thermoplastic vulcanizate (TPV) blade edge seals
- Flexible stainless steel jamb seals minimize air leakage

High Performance Economizer Control Module

- Module provides inputs and outputs to control economizer based on parameter settings
- Module automatically detects sensors by polling to determine which sensors are installed in system
- Module displays any alarm messages (fault detection and diagnostics) as an aid in troubleshooting
- Non-volatile memory retains parameter settings in case of power failure
- Keypad with four navigation buttons and LCD screen is furnished for setting economizer parameters
 - Menu Up/Exit button returns to the main menu
 - Arrow Up button moves to the previous or next parameter within the selected menu
 - Arrow Down button moves to the next parameter within the selected menu
 - Select (enter) button confirms parameter selection



OPTIONS / ACCESSORIES

ECONOMIZER (continued)

High Performance Economizer Control Module (continued)

Main Menu Structure:

- STATUS (economizer and system operation status)
- SETPOINTS (settings for various setpoint parameters)
- SYSTEM SETUP (settings/information about the system)
- ADVANCED SETUP (freeze protection, CO₂ settings, stage 3 delay, and additional calibration settings)
- CHECKOUT (damper positions)
- ALARMS (output signal that can be configured for remote alarm monitoring)

NOTE - Refer to Installation Instructions for complete setup information and menu parameters available.

Field Installed

Single Enthalpy Temperature Control

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

EXHAUST

Field Installed

Power Exhaust Fan - Downflow or Horizontal

- Installs external to unit for applications with Economizer option
- Provides exhaust air pressure relief
- Interlocked to run when supply air blower is operating
- Fan runs when outdoor air dampers are 50% open (adjustable)
- Motor is overload protected
- Fan is 305 mm diameter
- Five fan blades
- 0.25 kW motor

OUTDOOR AIR

Field Installed

Outdoor Air Dampers - Downflow

- Single blade damper
- 0 to 25% (fixed) outdoor air adjustable
- Installs in unit
- Automatic model features fully modulating spring return damper motor with plug-in connection
- Manual model features a slide damper

NOTE - Manual model features a slide damper. Maximum mixed air temperature in cooling mode: 38°C.

ROOF CURBS

Field Installed

Hybrid Roof Curbs, Downflow

- Nailer strip furnished; mates to unit
- US National Roofing Contractors approved
- Shipped knocked down
- Interlocking tabs fasten corners together; no tools required
- Can also be fastened together with furnished hardware
- Available in 203, 356, 457, and 610 mm heights

Adaptor Curbs (not shown)

- Curbs are regionally sourced
- Dimensions will vary based upon the source

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

CEILING DIFFUSERS

Field Installed

- 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)

NOTE - Ceiling Diffuser Transitions are not furnished and must be field fabricated.

OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

ComfortSense® 7500 Commercial 7-Day Programmable Thermostat



- Four-Stage Heating / Two-Stage Cooling
- Universal Multi-Stage
- Intuitive Touchscreen Interface
- Automatic Changeover between Heating and Cooling
- Full Seven-Day Programming
- Four Time Periods Per Day
- Temperature and Humidity Control
- One-Touch Away Mode
- Holiday Scheduling
- Smooth Setback Recovery (SSR)
- Performance Reports
- Notifications/Reminders
- Economizer Relay Control
- Backlit Display
- Wallplate Furnished
- FDD, ASHRAE and IECC Compliant

ComfortSense® 3000 Commercial 5-2 Day Programmable Thermostat



- Two-Stage Heating / Two-Stage Cooling
- Conventional Systems
- Intuitive Interface
- 5-2 Day Programming
- Program Hold
- Remote Indoor Temperature Sensing
- Smooth Setback Recovery (SSR)
- Economizer Relay Control
- Maintenance/Filter/Service Reminders
- Backlit Display
- Wallplate Furnished
- Simple Up and Down Temperature Control

BACnet Compatible Thermostat With Reheat Function



| Description | Model No. | Catalog No. |
|--|--|---------------------------|
| ComfortSense® 7500 7-Day Programmable | C0STAT06FF2L | 17G74 |
| Universal thermostat locking guard (clear) | C0MISC15AE1- | 39P21 |
| Temperature Sensors | 1 Remote non-adjustable wall-mount 20k | C0SNZN01AE2- 47W36 |
| | 1 Remote non-adjustable wall-mount 10k | C0SNZN73AE1- 47W37 |
| | Remote non-adjustable discharge air (duct mount) | C0SNDC00AE1- 19L22 |
| | Outdoor temperature sensor | C0SNSR03AE1- X2658 |
| ¹ 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 | | |
| ComfortSense® 3000 5-2 Day Programmable | C0STAT05FF1L | 11Y05 |
| Thermostat wall mounting plate | C0MISC17AE1- | X2659 |
| Temperature Sensor | Remote non-adjustable wall mount 10k averaging | C0SNZN73AE1- 47W37 |
| BACnet Controls | 7-Day BACnet Thermostat | --- |
| | BACnet Module (factory or field) | K0CTRL31A-2 16X70 |
| ² BACnet Room Sensors | With Display | K0SNSR01FF1 97W23 |
| | Without Display | K0SNSR00FF1 97W24 |

² Only compatible with BACnet Module (16X70).

- 7-Day Programmable
- BTL listed MS/TP ensures compatibility with any BACnet system
- Built-in control programs for conventional and heat pump applications
- Conventional systems up to 3-stage heat and 3-stage cool
- Heat pumps with 1 or 2 compressors and up to 2-stage auxiliary heat
- On-board temperature and humidity sensor
- Multiple configurable inputs and outputs enable advanced control strategies
- Set-up Wizard enables rapid system configuration
- No special tools required for installation or commissioning
- Seven-day (2, 4 or 6 event) occupancy scheduling per day
- Backlit 5-inch LCD touchscreen

OPTIONS / ACCESSORIES

| Item | Catalog No. | ZCB 036 | ZCB 048 | ZCB 060 | ZCB 074 |
|--|--|---------|---------|---------|---------|
| COOLING SYSTEM | | | | | |
| Condensate Drain Trap | Polyvinyl Chloride (PVC) - C1TRAP20AD2 | 22H54 | X | X | X |
| | Copper - C1TRAP10AD2 | 76W27 | X | X | X |
| Drain Pan Overflow Switch | Z1SNSR90A1 | 99W59 | X | X | X |
| Low Ambient Kit | Z1SNSR33A-1 | 99W67 | X | X | X |
| BLOWER - SUPPLY AIR | | | | | |
| Motors | Belt Drive - 0.62 kW Standard Efficiency | Factory | O | O | |
| | Belt Drive - 0.93 kW Standard Efficiency | Factory | O | O | O |
| | Belt Drive - 1.24 kW Standard Efficiency | Factory | | O | O |
| | Belt Drive - 1.24 kW (2 Speed) | Factory | | | O |
| Drive Kits See Blower Data Tables for selection | Kit #ZA07 - 705-1077 rev/min | Factory | O | | |
| | Kit #ZA08 - 759-1158 rev/min | Factory | | O | |
| | Kit #ZA09 - 919-1247 rev/min | Factory | | | O |
| | Kit #ZA10 - 1025-1391 rev/min | Factory | O | | |
| | ¹ Kit #ZA11 - 1111-1437 rev/min | Factory | | O | |
| | ² Kit #ZA12 - 1190-1540 rev/min | Factory | | | O |
| | Kit #ZAA03 - 665-921 rev/min | Factory | | | O |
| | Kit #ZAA04 - 768-1023 rev/min | Factory | | | O |
| | Kit #ZAA05 - 921-1177 rev/min | Factory | | | O |
| | | | | | |
| CABINET | | | | | |
| Combination Coil/Hail Guards | Z1GARD52A-1 | 12X19 | X | X | |
| | Z1GARD52AT1 | 12X20 | | | X X |
| Corrosion Protection | Factory | O | O | O | O |
| ELECTRICAL | | | | | |
| Voltage 50 hz with neutral | 380/420V - 3 phase | Factory | O | O | O O |
| Bottom Power Entry Kit | Z1PEKT01A-1 | 98W08 | X | X | X X |
| ³ ELECTRIC HEAT | | | | | |
| 3.8 kW | 380/420V-3ph - Z1EH0050AN1G | 99W06 | X | X | X O |
| 5.7 kW | 380/420V-3ph - Z1EH0075AN1G | 99W07 | X | X | X X |
| 7.7 kW | 380/420V-3ph - Z1EH0100AN1G | 99W08 | X | X | X X |
| 11.5 kW | 380/420V-3ph - Z1EH0150AN1G | 99W09 | X | X | X X |
| 17.2 kW | 380/420V-3ph - Z1EH0225AN1G | 99W10 | | X | X X |
| 23 kW | 380/420V-3ph - Z1EH0300A-1G | 13U02 | | | X |
| ELECTRIC HEAT ACCESSORIES | | | | | |
| Unit Fuse Block (required) - See Electrical/Electric Heat Tables for Selection | | | X | X | X X |

¹ ZA11 drive kits require the 0.93 kW motor.

² ZA12 drive kit requires the 1.24 kW motor.

³ Nominal kW at 420V-3ph-50hz.

NOTE - The catalog and model numbers that appear here are for ordering field installed accessories only.

OX - Field Installed or Configure to Order (factory installed)

O - Configure to Order (Factory Installed)

X - Field Installed.

OPTIONS / ACCESSORIES

| Item | Catalog No. | ZCB 036 | ZCB 048 | ZCB 060 | ZCB 074 |
|---|-----------------------------|--------------|---------|---------|---------|
| ECONOMIZER | | | | | |
| Standard Economizer With Outdoor Air Hood | | | | | |
| Standard Economizer (Downflow) Includes Barometric Relief Dampers and Exhaust Hood | Z1ECON30A-2 | 14D94 | OX | OX | OX |
| Standard Economizer (Horizontal) Includes Barometric Relief Dampers and Exhaust Hood | Z1ECON16A-2 | 14D92 | X | X | X |
| Standard Economizer Controls | | | | | |
| Single Enthalpy Control | C1SNSR64FF1 | 21Z09 | X | X | X |
| High Performance Economizer With Outdoor Air Hood | | | | | |
| High Performance Economizer (Downflow) Includes Barometric Relief Dampers and Exhaust Hood | Z1ECON32A-4 | 20V23 | OX | OX | OX |
| High Performance Economizer (Horizontal) Includes Barometric Relief Dampers and Exhaust Hood | Z1ECON33A-4 | 20V24 | X | X | X |
| High Performance Economizer Controls | | | | | |
| Single Enthalpy Control | C1SNSR61FF1 | 11G21 | X | X | X |
| OUTDOOR AIR | | | | | |
| Outdoor Air Dampers With Outdoor Air Hood | | | | | |
| Motorized | Z1DAMP21A-2 | 15D19 | X | X | X |
| Manual | Z1DAMP11A-2 | 15D20 | X | X | X |
| Power EXhaust FAN | | | | | |
| Standard Static (Downflow) | 380/420V-3ph - Z1PWRE10A-1G | 23E01 | X | X | X |
| Standard Static (Horizontal) | 380/420V-3ph - Z1PWRE15A-1G | 28E01 | X | X | X |
| Indoor Air Quality | | | | | |
| Indoor Air Quality (CO₂) Sensors | | | | | |
| Sensor - Wall-mount, off-white plastic cover with LCD display | C0SNSR50AE1L | 77N39 | X | X | X |
| Sensor - Wall-mount, black plastic case, no display, rated for plenum mounting | C0SNSR53AE1L | 87N54 | X | X | X |
| CO ₂ Sensor Duct Mounting Kit - for downflow applications | C0MISC19AE1 | 85L43 | X | X | X |
| Aspiration Box - for duct mounting non-plenum rated CO ₂ sensor (77N39) | C0MISC16AE1 | 90N43 | X | X | X |
| ROOF CURBS | | | | | |
| Hybrid Roof Curbs, Downflow | | | | | |
| 203 mm height | Z1CURB70A-1 | 11F76 | X | X | X |
| 356 mm height | Z1CURB71A-1 | 11F77 | X | X | X |
| 457 mm height | Z1CURB72A-1 | 11F78 | X | X | X |
| 610 mm height | Z1CURB73A-1 | 11F79 | X | X | X |
| CEILING DIFFUSERS | | | | | |
| Step-Down - Order one | RTD9-65S | 13K60 | X | X | X |
| | RTD11-95S | 13K61 | | | X |
| Flush - Order one | FD9-65S | 13K55 | X | X | X |
| | FD11-95S | 13K56 | | | X |

NOTE - Ceiling Diffuser Transitions are not furnished and must be field fabricated.

NOTE - The catalog and model numbers that appear here are for ordering field installed accessories only.

OX - Field Installed or Configure to Order (factory installed)

O - Configure to Order (Factory Installed)

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SPECIFICATIONS

| General Data | | Nominal Size Model No. | 10.5 kW (3 Ton) ZCB036S4B | 14.0 kW (4 Ton) ZCB048S4B | 17.5 kW (5 Ton) ZCB060S4B |
|---|---|---|--|--|------------------------------|
| Efficiency Type | | Standard | Standard | Standard | |
| Blower Type | | Single Speed Belt Drive | Single Speed Belt Drive | Single Speed Belt Drive | |
| Cooling Performance | Gross Cooling Capacity - kW (Btuh) | 9.2 (31 400) | 12.0 (40 900) | 14.6 (49 900) | |
| | ¹ Net Cooling Capacity - kW (Btuh) | 8.8 (30 200) | 11.6 (39 700) | 14.2 (48 600) | |
| | Rated Air Flow - L/s (cfm) | 560 (1190) | 650 (1380) | 815 (1725) | |
| | ³ Sound Rating Number (SRN)(dBA) | 77 | 80 | 78 | |
| | Total Unit Power - kW | 2.55 | 3.5 | 4.3 | |
| | ¹ SEER (Btuh/Watt) | 14.0 | 14.0 | 14.0 | |
| | ¹ EER (Btuh/Watt) at 35°C (95°F) | ¹ 11.8 | ¹ 11.3 | ¹ 11.3 | |
| | ² EER (Btuh/Watt) at 46°C (115°F) | 8.6 | 8.2 | 7.3 | |
| | Refrigerant | R-410A | R-410A | R-410A | |
| | Charge Furnished | 2.32 kg (5 lbs. 2 oz.) | 2.38 kg (5 lbs. 4 oz.) | 3.32 kg (7 lbs. 5 oz.) | |
| Electric Heat Available - See page 9 | | 3.8, 5.7, 7.7, 11.5 kW | 3.8, 5.7, 7.7, 11.5, 17.2 kW | | |
| Compressor Type (one per unit) | | Scroll | Scroll | Scroll | |
| Outdoor Coil | Net face area - m ² (sq. ft.) | 1.4 (15.2) | 1.4 (15.2) | 1.84 (19.9) | |
| | Number of rows | 1 | 1 | 1 | |
| | Fins per meter (in.) | 906 (23) | 906 (23) | 906 (23) | |
| Outdoor Coil Fan | Motor W (HP) | 187 (1/4) | 187 (1/4) | 187 (1/4) | |
| | Motor rev/min | 690 | 690 | 690 | |
| | Total motor watts | 260 | 260 | 260 | |
| | Diameter - mm (in.) | 559 (22) | 559 (22) | 559 (22) | |
| | Number of blades | 4 | 4 | 4 | |
| | Total air volume - L/s (cfm) | 1454 (3080) | 1454 (3080) | 1454 (3080) | |
| Indoor Coil | Net face area - m ² (sq. ft.) | 0.78 (8.4) | 0.78 (8.4) | 1.0 (10.8) | |
| | Tube diameter - mm (in.) | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) | |
| | Number of rows | 3 | 3 | 3 | |
| | Fins per m (in.) | 551 (14) | 551 (14) | 551 (14) | |
| | Drain Connection (no. and size) - cm (in.) | (1) 1 NPT | (1) 1 NPT | (1) 1 NPT | |
| | Expansion device type | Fixed Orifice | Fixed Orifice | Fixed Orifice | |
| Indoor Blower & Drive Selection | Nominal Motor kW (hp) | 0.62 (0.83) | 0.62 (0.83) | 0.93 (1.25) | |
| | Maximum Usable Motor kW (hp) | 0.93 (1.25) | 0.93 (1.25) | 1.24 (1.66) | |
| | Available Drive Kits | ZA07 705-1077 rev/min ZA10 1025-1391 rev/min | ZA08 759-1158 rev/min ⁵ ZA11 1111-1437 rev/min | ZA09 919-1247 rev/min ⁶ ZA12 1190-1540 rev/min | |
| | Wheel nominal diameter x width - mm (in.) | 254 x 254 (10 x 10) | 254 x 254 (10 x 10) | 254 x 254 (10 x 10) | |
| Filters | Type | Disposable | | | |
| | Number and size - mm (in.) | (4) 356 x 508 x 51 (14 x 20 x 2) | | (2) 406 x 508 x 51 (16 x 20 x 2) | |
| | | | | (2) 508 x 508 x 51 (20 x 20 x 2) | |
| Electrical Characteristics - 50 Hz | | 380/420V - 50 hertz - 3 phase with neutral | | | |

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

¹ Tested at conditions included in AHRI Standard 210/240; 35°C (95°F) outdoor air temperature and 27°C (80°F) dry bulb /19°C (67°F) wet bulb entering evaporator air; minimum external duct static pressure while operating at rated voltage and air volumes.

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

³ Sound Rating Number (SRN) rated in accordance with test conditions included in ANSI/AHRI Standard 270-2008.

⁴ Using total air volume and system static pressure requirements determine from blower performance tables rev/min and motor size required. Maximum usable size of motors furnished is shown. If motors of comparable size are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

0.62 kW = 0.83 hp (1.0 nominal hp) while operating at rated voltage and frequency.

0.93 kW = 1.25 hp (1.5 nominal hp) while operating at rated voltage and frequency.

1.24 kW = 1.66 hp (2.0 nominal hp) while operating at rated voltage and frequency.

⁵ ZA11 drive kits require the 0.93 kW motor.

⁶ ZA12 drive kit requires the 1.24 kW motor.

SPECIFICATIONS

| General Data | | Nominal Size | 21 kW (6 Ton) | 21 kW (6 Ton) |
|---|---|--|--|---------------|
| | Model No. | ZCB074S4T | ZCB074S4B | |
| | Efficiency Type | Standard | Standard | |
| | Blower Type | Two Speed Belt Drive | Single Speed Belt Drive | |
| Cooling Performance | Gross Cooling Capacity - kW (Btuh) | 17.3 (59 000) | 17.3 (59 000) | |
| | ¹ Net Cooling Capacity - kW (Btuh) | 16.9 (57 500) | 16.9 (57 500) | |
| | Rated Air Flow - L/s (cfm) | 1038 (2200) | 1038 (2200) | |
| | ³ Sound Rating Number (SRN)(dBA) | 84 | 84 | |
| | Total Unit Power - kW | 5.1 | 5.1 | |
| | ¹ IEER (Btuh/Watt) | 15.0 | 13.0 | |
| | ¹ EER (Btuh/Watt) at 35°C (95°F) | 11.3 | 11.3 | |
| | ² EER (Btuh/Watt) at 46°C (115°F) | 7.7 | 7.7 | |
| Refrigerant | Type | R-410A | R-410A | |
| | Charge Furnished | 3.26 kg (7 lbs. 3 oz.) | 3.26 kg (7 lbs. 3 oz.) | |
| Electric Heat Available - See page 9 | | 5.7, 7.7, 11.5, 17.2, 23 kW | | |
| Compressor Type (one per unit) | | Scroll | Scroll | |
| Outdoor Coil | Net face area - m ² (sq. ft.) | 1.85 (19.9) | 1.85 (19.9) | |
| | Number of rows | 1 | 1 | |
| | Fins per meter (in.) | 906 (23) | 906 (23) | |
| Outdoor Coil Fan | Motor W (HP) | 249 (1/3) | 249 (1/3) | |
| | Motor rev/min | 900 | 900 | |
| | Total motor watts | 290 | 290 | |
| | Diameter - mm (in.) | 559 (22) | 559 (22) | |
| | Number of blades | 3 | 3 | |
| | Total air volume - L/s (cfm) | 1680 (3560) | 1680 (3560) | |
| Indoor Coil | Net face area - m ² (sq. ft.) | 1.0 (10.8) | 1.0 (10.8) | |
| | Tube diameter - mm (in.) | 9.5 (3/8) | 9.5 (3/8) | |
| | Number of rows | 3 | 3 | |
| | Fins per m (in.) | 551 (14) | 551 (14) | |
| | Drain Connection (no. and size) -cm (in.) | (1) 1 NPT | (1) 1 NPT | |
| | Expansion device type | Balance port TXV, removable head | | |
| ⁴ Indoor Blower & Drive Selection | Nominal Motor kW (hp) | 1.24 (1.66) | 1.24 (1.66) | |
| | Maximum Usable Motor kW (hp) | 1.42 (1.91) | 1.42 (1.91) | |
| | Available Drive Kits | ZAA03 665-921 rev/min ZAA04 768-1023 rev/min ZAA05 921-1177 rev/min 381 x 229 (15 x 9) | ZAA03 665-921 rev/min ZAA04 768-1023 rev/min ZAA05 921-1177 rev/min 381 x 229 (15 x 9) | |
| | Wheel nominal diameter x width - mm (in.) | | | |
| | Type | Disposable | | |
| | Number and size - mm (in.) | (2) 406 x 508 x 51 (16 x 20 x 2) (2) 508 x 508 x 51 (20 x 20 x 2) | | |
| | Electrical Characteristics - 50 Hz | 380/420V - 50 hertz - 3 phase with neutral | | |

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

¹ Rating test conditions are those included in Air-Conditioning, Heating and Refrigeration Institute (AHRI) Standard 340/360; 35°C (95°F) outdoor air temperature and 27°C (80°F) db/19°C (67°F) wb entering evaporator air; minimum external duct static pressure while operating at rated voltage and air volumes.

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

³ Sound Rating Number (SRN) rated in accordance with test conditions included in ANSI/AHRI Standard 270-2008.

⁴ Using total air volume and system static pressure requirements determine from blower performance tables rev/min and motor size required. Maximum usable size of motors furnished is shown. If motors of comparable size are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

0.62 kW = 0.83 hp (1.0 nominal hp) while operating at rated voltage and frequency.

0.93 kW = 1.25 hp (1.5 nominal hp) while operating at rated voltage and frequency.

1.24 kW = 1.66 hp (2.0 nominal hp) while operating at rated voltage and frequency.

RATINGS

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

17.5 KW - ZCB060S4

| Entering Wet Bulb Temper- ature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|---|-------------------------|----------------------------------|------|------|-----------------------------|-------------------------|----------------------------------|------|------|-----------------------------|-------------------------|----------------------------------|------|------|-----------------------------|-------------------------|----------------------------------|------|------|--|--|--|--|
| | | 26.7°C | | | | | | 35°C | | | | | | 43.3°C | | | | | | 46°C | | | | | |
| | | Total Cool Cap. L/s | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. kW | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. kW | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. kW | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | | |
| 17.2°C | 755 | 14.7 | 2.88 | 0.78 | 0.93 | 1.00 | 12.7 | 3.43 | 0.79 | 0.96 | 1.00 | 10.7 | 4.12 | 0.81 | 0.99 | 1.00 | 10.2 | 4.38 | .80 | 1.00 | 1.00 | | | | |
| | 945 | 15.5 | 2.89 | 0.86 | 0.99 | 1.00 | 13.7 | 3.44 | 0.87 | 1.00 | 1.00 | 11.8 | 4.16 | 0.9 | 1.00 | 1.00 | 11.2 | 4.43 | .91 | 1.00 | 1.00 | | | | |
| | 1135 | 16.5 | 2.91 | 0.91 | 1.00 | 1.00 | 14.7 | 3.47 | 0.94 | 1.00 | 1.00 | 12.6 | 4.19 | 0.97 | 1.00 | 1.00 | 12.0 | 4.46 | .99 | 1.00 | 1.00 | | | | |
| 19.4°C | 755 | 15.9 | 2.9 | 0.6 | 0.76 | 0.91 | 13.9 | 3.45 | 0.59 | 0.77 | 0.93 | 11.7 | 4.16 | 0.57 | 0.79 | 0.97 | 11.0 | 4.41 | .56 | .80 | .95 | | | | |
| | 945 | 16.7 | 2.91 | 0.64 | 0.83 | 0.97 | 14.6 | 3.46 | 0.64 | 0.86 | 1.00 | 12.4 | 4.18 | 0.64 | 0.89 | 1.00 | 11.6 | 4.44 | .63 | .90 | 1.00 | | | | |
| | 1135 | 17.4 | 2.92 | 0.69 | 0.89 | 1.00 | 15.1 | 3.47 | 0.69 | 0.92 | 1.00 | 12.9 | 4.20 | 0.71 | 0.96 | 1.00 | 12.1 | 4.46 | .70 | .99 | 1.00 | | | | |
| 21.7°C | 755 | 17.0 | 2.91 | 0.43 | 0.59 | 0.74 | 15.0 | 3.48 | 0.41 | 0.58 | 0.75 | 12.7 | 4.19 | 0.36 | 0.57 | 0.77 | 12.0 | 4.46 | .36 | .58 | .72 | | | | |
| | 945 | 17.9 | 2.93 | 0.45 | 0.64 | 0.81 | 15.8 | 3.49 | 0.43 | 0.63 | 0.83 | 13.5 | 4.22 | 0.4 | 0.65 | 0.87 | 12.7 | 4.49 | .39 | .66 | .82 | | | | |
| | 1135 | 18.6 | 2.95 | 0.48 | 0.69 | 0.88 | 16.3 | 3.51 | 0.46 | 0.69 | 0.90 | 13.9 | 4.25 | 0.44 | 0.71 | 0.94 | 13.1 | 4.52 | .43 | .72 | .91 | | | | |
| Entering Wet Bulb Temper- ature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
| | | 48°C | | | | | | 50°C | | | | | | 51.7°C | | | | | | | | | | | |
| | | Total Cool Cap. L/s | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. kW | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. kW | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. kW | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | | |
| 17.2°C | 755 | 9.6 | 4.59 | .83 | 1.00 | 1.00 | 9.1 | 4.82 | .85 | 1.00 | 1.00 | 8.7 | 5.03 | 0.86 | 1.00 | 1.00 | | | | | | | | | |
| | 945 | 10.6 | 4.64 | .93 | 1.00 | 1.00 | 10.1 | 4.88 | .94 | 1.00 | 1.00 | 9.6 | 5.09 | 0.96 | 1.00 | 1.00 | | | | | | | | | |
| | 1135 | 11.3 | 4.68 | 1.00 | 1.00 | 1.00 | 10.8 | 4.91 | 1.00 | 1.00 | 1.00 | 10.3 | 5.13 | 1.00 | 1.00 | 1.00 | | | | | | | | | |
| 19.4°C | 755 | 10.4 | 4.63 | .57 | .81 | .99 | 9.8 | 4.86 | .57 | .82 | 1.00 | 9.3 | 5.07 | 0.56 | 0.84 | 1.00 | | | | | | | | | |
| | 945 | 11.0 | 4.66 | .64 | .92 | 1.00 | 10.4 | 4.89 | .65 | .93 | 1.00 | 9.8 | 5.10 | 0.65 | 0.94 | 1.00 | | | | | | | | | |
| | 1135 | 11.4 | 4.69 | .72 | .99 | 1.00 | 10.8 | 4.92 | .73 | 1.00 | 1.00 | 10.3 | 5.13 | 0.73 | 1.00 | 1.00 | | | | | | | | | |
| 21.7°C | 755 | 11.4 | 4.68 | .33 | .57 | .79 | 10.8 | 4.91 | .32 | .57 | .80 | 10.2 | 5.12 | 0.32 | 0.57 | 0.81 | | | | | | | | | |
| | 945 | 12.0 | 4.71 | .38 | .65 | .90 | 11.3 | 4.94 | .37 | .65 | .91 | 10.8 | 5.16 | 0.36 | 0.66 | 0.92 | | | | | | | | | |
| | 1135 | 12.4 | 4.74 | .42 | .73 | .97 | 11.8 | 4.98 | .41 | .73 | .98 | 11.2 | 5.19 | 0.41 | 0.75 | 1.00 | | | | | | | | | |

BLOWER DATA

BELT DRIVE | 3 TON

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, wet coil, etc.).

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

See page 25 for blower motors and drives and wet coil and options/Accessory air resistance data.

DOWNTIME

| Air Volume | | | External Static - Pa (in. w.g.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|------|---------|---------------------------------|------|---------|------|-----------|---------|------|------|-----------|------|------|---------|------------|------|---------|------|------------|---------|------|------|------------|------|------|---------|------------|------|--|--|------------|--|--|--|
| | | | 25 (0.10) | | | | 50 (0.20) | | | | 75 (0.30) | | | | 100 (0.40) | | | | 125 (0.50) | | | | 150 (0.60) | | | | 175 (0.70) | | | | 200 (0.80) | | | |
| L/s | cfm | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | | | | | | |
| 425 | 900 | 562 | 0.12 | 0.16 | 629 | 0.13 | 0.18 | 699 | 0.14 | 0.19 | 771 | 0.15 | 0.2 | 840 | 0.16 | 0.22 | 904 | 0.18 | 0.24 | 962 | 0.19 | 0.26 | 1015 | 0.22 | 0.29 | 1074 | 0.25 | 0.33 | | | | | | |
| 472 | 1000 | 586 | 0.13 | 0.18 | 654 | 0.15 | 0.2 | 725 | 0.16 | 0.21 | 796 | 0.17 | 0.23 | 864 | 0.19 | 0.25 | 927 | 0.20 | 0.27 | 983 | 0.22 | 0.3 | 1034 | 0.25 | 0.33 | 1094 | 0.28 | 0.37 | | | | | | |
| 519 | 1100 | 612 | 0.15 | 0.2 | 681 | 0.16 | 0.22 | 752 | 0.18 | 0.24 | 823 | 0.19 | 0.26 | 890 | 0.21 | 0.28 | 950 | 0.23 | 0.31 | 1004 | 0.25 | 0.34 | 1054 | 0.28 | 0.37 | 1118 | 0.31 | 0.42 | | | | | | |
| 566 | 1200 | 641 | 0.17 | 0.23 | 711 | 0.19 | 0.25 | 783 | 0.20 | 0.27 | 852 | 0.22 | 0.29 | 917 | 0.24 | 0.32 | 975 | 0.26 | 0.35 | 1027 | 0.29 | 0.39 | 1074 | 0.31 | 0.42 | 1144 | 0.36 | 0.48 | | | | | | |
| 613 | 1300 | 673 | 0.19 | 0.25 | 744 | 0.21 | 0.28 | 815 | 0.22 | 0.3 | 882 | 0.25 | 0.33 | 944 | 0.27 | 0.36 | 1000 | 0.30 | 0.4 | 1050 | 0.33 | 0.44 | 1096 | 0.36 | 0.48 | 1182 | 0.41 | 0.53 | | | | | | |
| 661 | 1400 | 709 | 0.22 | 0.29 | 779 | 0.24 | 0.32 | 849 | 0.25 | 0.34 | 914 | 0.28 | 0.37 | 973 | 0.31 | 0.41 | 1026 | 0.34 | 0.45 | 1074 | 0.37 | 0.49 | 1118 | 0.40 | 0.53 | 1223 | 0.44 | 0.59 | | | | | | |
| 708 | 1500 | 747 | 0.25 | 0.33 | 816 | 0.27 | 0.36 | 883 | 0.29 | 0.39 | 945 | 0.31 | 0.42 | 1001 | 0.34 | 0.46 | 1052 | 0.38 | 0.51 | 1098 | 0.41 | 0.55 | 1141 | 0.44 | 0.59 | 1263 | 0.47 | 0.60 | | | | | | |

| Air Volume | | | External Static - Pa (in. w.g.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|------|---------|---------------------------------|------|---------|------|------------|---------|------|------|------------|------|------|---------|------------|------|---------|------|------------|---------|------|------|------------|------|------|---------|------------|------|---------|----|------------|--|--|--|
| | | | 225 (0.90) | | | | 250 (1.00) | | | | 275 (1.10) | | | | 300 (1.20) | | | | 325 (1.30) | | | | 350 (1.40) | | | | 375 (1.50) | | | | 400 (1.60) | | | |
| L/s | cfm | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | | | |
| 425 | 900 | 1065 | 0.24 | 0.32 | 1112 | 0.26 | 0.35 | 1158 | 0.28 | 0.38 | 1202 | 0.31 | 0.41 | 1243 | 0.33 | 0.44 | 1284 | 0.36 | 0.48 | 1323 | 0.39 | 0.52 | 1364 | 0.41 | 0.55 | 1414 | 0.45 | 0.60 | | | | | | |
| 472 | 1000 | 1082 | 0.27 | 0.36 | 1128 | 0.29 | 0.39 | 1173 | 0.31 | 0.42 | 1216 | 0.34 | 0.45 | 1257 | 0.37 | 0.49 | 1297 | 0.40 | 0.53 | 1336 | 0.43 | 0.57 | 1375 | 0.45 | 0.60 | 1423 | 0.48 | 0.63 | | | | | | |
| 519 | 1100 | 1100 | 0.30 | 0.4 | 1145 | 0.33 | 0.44 | 1189 | 0.35 | 0.47 | 1231 | 0.38 | 0.51 | 1272 | 0.40 | 0.54 | 1311 | 0.43 | 0.58 | 1349 | 0.46 | 0.62 | 1388 | 0.49 | 0.66 | 1449 | 0.52 | 0.67 | | | | | | |
| 566 | 1200 | 1119 | 0.34 | 0.45 | 1163 | 0.37 | 0.49 | 1206 | 0.39 | 0.52 | 1247 | 0.42 | 0.56 | 1287 | 0.45 | 0.60 | 1326 | 0.48 | 0.64 | 1364 | 0.51 | 0.68 | 1402 | 0.54 | 0.72 | 1463 | 0.57 | 0.75 | | | | | | |
| 613 | 1300 | 1139 | 0.38 | 0.51 | 1182 | 0.41 | 0.55 | 1224 | 0.43 | 0.58 | 1265 | 0.46 | 0.62 | 1304 | 0.49 | 0.66 | 1342 | 0.53 | 0.71 | 1379 | 0.56 | 0.75 | 1416 | 0.59 | 0.79 | 1523 | 0.62 | 0.81 | | | | | | |
| 661 | 1400 | 1160 | 0.43 | 0.57 | 1202 | 0.46 | 0.61 | 1243 | 0.48 | 0.65 | 1283 | 0.51 | 0.69 | 1322 | 0.54 | 0.73 | 1359 | 0.58 | 0.78 | 1396 | 0.61 | 0.82 | 1432 | 0.65 | 0.87 | 1563 | 0.68 | 0.86 | | | | | | |
| 708 | 1500 | 1182 | 0.48 | 0.64 | 1223 | 0.51 | 0.68 | 1263 | 0.54 | 0.72 | 1303 | 0.57 | 0.76 | 1341 | 0.60 | 0.81 | 1378 | 0.63 | 0.85 | 1414 | 0.67 | 0.9 | 1449 | 0.70 | 0.94 | 1603 | 0.73 | 0.93 | | | | | | |

BLOWER DATA

BELT DRIVE | 3 TON

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, wet coil, etc.).

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

See page 25 for blower motors and drives and wet coil and options/Accessory air resistance data.

HORIZONTAL

| External Static - Pa (in. w.g.) | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|------|-------------|------|-----------|-------------|-----------|------|-------------|------|------------|-------------|------------|------|-------------|------|------------|-------------|------|------|------|------|------|------|------|------|
| Air Volume | | 25 (0.10) | | 50 (0.20) | | 75 (0.30) | | 100 (0.40) | | 125 (0.50) | | 150 (0.60) | | 175 (0.70) | | 200 (0.80) | | | | | | | | | |
| L/s | cfm | Rev/ min | kW | BHP | Rev/ min | kW | BHP | Rev/ min | kW | BHP | Rev/ min | kW | BHP | Rev/ min | kW | BHP | Rev/ min | kW | BHP | | | | | | |
| 425 | 900 | 580 | 0.10 | 0.14 | 649 | 0.13 | 0.17 | 721 | 0.14 | 0.19 | 794 | 0.16 | 0.22 | 868 | 0.18 | 0.24 | 938 | 0.20 | 0.27 | 998 | 0.22 | 0.3 | 1045 | 0.25 | 0.33 |
| 472 | 1000 | 612 | 0.13 | 0.17 | 681 | 0.14 | 0.19 | 752 | 0.16 | 0.22 | 825 | 0.19 | 0.25 | 897 | 0.20 | 0.27 | 963 | 0.22 | 0.3 | 1017 | 0.25 | 0.33 | 1061 | 0.28 | 0.37 |
| 519 | 1100 | 647 | 0.15 | 0.2 | 717 | 0.17 | 0.23 | 788 | 0.19 | 0.26 | 858 | 0.21 | 0.28 | 926 | 0.23 | 0.31 | 986 | 0.25 | 0.34 | 1036 | 0.28 | 0.38 | 1077 | 0.31 | 0.41 |
| 566 | 1200 | 687 | 0.17 | 0.23 | 757 | 0.19 | 0.26 | 826 | 0.22 | 0.29 | 893 | 0.24 | 0.32 | 955 | 0.26 | 0.35 | 1008 | 0.29 | 0.39 | 1054 | 0.31 | 0.42 | 1095 | 0.34 | 0.46 |
| 613 | 1300 | 730 | 0.20 | 0.27 | 798 | 0.22 | 0.3 | 864 | 0.25 | 0.33 | 926 | 0.28 | 0.37 | 982 | 0.30 | 0.4 | 1030 | 0.33 | 0.44 | 1073 | 0.35 | 0.47 | 1116 | 0.38 | 0.51 |
| 661 | 1400 | 775 | 0.23 | 0.31 | 840 | 0.25 | 0.34 | 902 | 0.28 | 0.38 | 959 | 0.31 | 0.42 | 1009 | 0.34 | 0.46 | 1054 | 0.37 | 0.5 | 1096 | 0.40 | 0.53 | 1140 | 0.42 | 0.56 |
| 708 | 1500 | 820 | 0.27 | 0.36 | 881 | 0.30 | 0.4 | 939 | 0.33 | 0.44 | 993 | 0.37 | 0.49 | 1039 | 0.40 | 0.53 | 1082 | 0.42 | 0.56 | 1124 | 0.44 | 0.59 | 1168 | 0.46 | 0.62 |

| External Static - Pa (in. w.g.) | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|------|-------------|------|------------|-------------|------------|------|-------------|------|------------|-------------|------------|------|-------------|------|------------|-------------|------|------|------|------|------|------|------|------|
| Air Volume | | 225 (0.90) | | 250 (1.00) | | 275 (1.10) | | 300 (1.20) | | 325 (1.30) | | 350 (1.40) | | 375 (1.50) | | 400 (1.60) | | | | | | | | | |
| L/s | cfm | Rev/ min | kW | BHP | Rev/ min | kW | BHP | Rev/ min | kW | BHP | Rev/ min | kW | BHP | Rev/ min | kW | BHP | Rev/ min | kW | BHP | | | | | | |
| 425 | 900 | 1091 | 0.27 | 0.36 | 1140 | 0.28 | 0.38 | 1188 | 0.30 | 0.4 | 1232 | 0.32 | 0.43 | 1272 | 0.34 | 0.46 | 1309 | 0.37 | 0.49 | 1346 | 0.40 | 0.53 | 1383 | 0.43 | 0.57 |
| 472 | 1000 | 1105 | 0.30 | 0.4 | 1154 | 0.31 | 0.42 | 1201 | 0.34 | 0.45 | 1245 | 0.35 | 0.47 | 1284 | 0.37 | 0.5 | 1321 | 0.40 | 0.54 | 1357 | 0.43 | 0.58 | 1394 | 0.46 | 0.62 |
| 519 | 1100 | 1121 | 0.33 | 0.44 | 1169 | 0.35 | 0.47 | 1216 | 0.37 | 0.49 | 1259 | 0.39 | 0.52 | 1298 | 0.42 | 0.56 | 1335 | 0.45 | 0.6 | 1370 | 0.48 | 0.64 | 1406 | 0.51 | 0.69 |
| 566 | 1200 | 1139 | 0.37 | 0.49 | 1187 | 0.39 | 0.52 | 1234 | 0.40 | 0.54 | 1276 | 0.43 | 0.58 | 1314 | 0.46 | 0.62 | 1350 | 0.49 | 0.66 | 1385 | 0.53 | 0.71 | 1421 | 0.56 | 0.75 |
| 613 | 1300 | 1161 | 0.40 | 0.54 | 1208 | 0.43 | 0.57 | 1254 | 0.45 | 0.6 | 1295 | 0.48 | 0.64 | 1332 | 0.51 | 0.69 | 1366 | 0.54 | 0.73 | 1401 | 0.58 | 0.78 | 1436 | 0.62 | 0.83 |
| 661 | 1400 | 1185 | 0.44 | 0.59 | 1232 | 0.47 | 0.63 | 1276 | 0.50 | 0.67 | 1315 | 0.53 | 0.71 | 1351 | 0.57 | 0.76 | 1384 | 0.60 | 0.81 | 1419 | 0.64 | 0.86 | 1454 | 0.67 | 0.9 |
| 708 | 1500 | 1212 | 0.49 | 0.66 | 1257 | 0.52 | 0.7 | 1299 | 0.55 | 0.74 | 1337 | 0.59 | 0.79 | 1371 | 0.63 | 0.84 | 1404 | 0.66 | 0.89 | 1438 | 0.70 | 0.94 | 1473 | 0.74 | 0.99 |

BLOWER DATA

BELT DRIVE | 4 TON

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, wet coil, etc.).

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

See page 25 for blower motors and drives and wet coil and options/accessory air resistance data.

DOWNTOWN

| Air Volume | | | 25 (0.10) | | | 50 (0.20) | | | 75 (0.30) | | | 100 (0.40) | | | 125 (0.50) | | | 150 (0.60) | | | 175 (0.70) | | | 200 (0.80) | | |
|------------|------|-------------|-----------|------|-------------|-----------|------|-------------|-----------|------|-------------|------------|------|-------------|------------|------|-------------|------------|------|-------------|------------|------|-------------|------------|------|--|
| L/s | cfm | Rev/ min | kW | BHP | Rev/ min | kW | BHP | Rev/ min | kW | BHP | Rev/ min | kW | BHP | Rev/ min | kW | BHP | Rev/ min | kW | BHP | Rev/ min | kW | BHP | Rev/ min | kW | BHP | |
| 565 | 1200 | 641 | 0.17 | 0.23 | 711 | 0.19 | 0.25 | 783 | 0.20 | 0.27 | 852 | 0.22 | 0.29 | 917 | 0.24 | 0.32 | 975 | 0.26 | 0.35 | 1027 | 0.29 | 0.39 | 1074 | 0.31 | 0.42 | |
| 615 | 1300 | 673 | 0.19 | 0.25 | 744 | 0.21 | 0.28 | 815 | 0.22 | 0.3 | 882 | 0.25 | 0.33 | 944 | 0.27 | 0.36 | 1000 | 0.30 | 0.4 | 1050 | 0.33 | 0.44 | 1096 | 0.36 | 0.48 | |
| 660 | 1400 | 709 | 0.22 | 0.29 | 779 | 0.24 | 0.32 | 849 | 0.25 | 0.34 | 914 | 0.28 | 0.37 | 973 | 0.31 | 0.41 | 1026 | 0.34 | 0.45 | 1074 | 0.37 | 0.49 | 1118 | 0.40 | 0.53 | |
| 710 | 1500 | 747 | 0.25 | 0.33 | 816 | 0.27 | 0.36 | 883 | 0.29 | 0.39 | 945 | 0.31 | 0.42 | 1001 | 0.34 | 0.46 | 1052 | 0.38 | 0.51 | 1098 | 0.41 | 0.55 | 1141 | 0.44 | 0.59 | |
| 755 | 1600 | 787 | 0.28 | 0.38 | 854 | 0.31 | 0.41 | 918 | 0.33 | 0.44 | 976 | 0.36 | 0.48 | 1030 | 0.39 | 0.52 | 1078 | 0.42 | 0.56 | 1123 | 0.46 | 0.61 | 1164 | 0.49 | 0.66 | |
| 800 | 1700 | 827 | 0.32 | 0.43 | 892 | 0.34 | 0.46 | 952 | 0.37 | 0.49 | 1007 | 0.40 | 0.53 | 1058 | 0.43 | 0.58 | 1105 | 0.47 | 0.63 | 1148 | 0.51 | 0.68 | 1189 | 0.54 | 0.73 | |
| 850 | 1800 | 868 | 0.36 | 0.48 | 929 | 0.39 | 0.52 | 986 | 0.41 | 0.55 | 1038 | 0.44 | 0.59 | 1087 | 0.48 | 0.64 | 1132 | 0.51 | 0.69 | 1174 | 0.56 | 0.75 | 1214 | 0.60 | 0.8 | |
| 895 | 1900 | 907 | 0.40 | 0.54 | 966 | 0.43 | 0.58 | 1019 | 0.46 | 0.62 | 1069 | 0.49 | 0.66 | 1116 | 0.53 | 0.71 | 1160 | 0.57 | 0.77 | 1200 | 0.61 | 0.82 | 1240 | 0.66 | 0.88 | |
| 945 | 2000 | 946 | 0.45 | 0.6 | 1001 | 0.48 | 0.65 | 1053 | 0.51 | 0.69 | 1101 | 0.55 | 0.74 | 1146 | 0.59 | 0.79 | 1188 | 0.63 | 0.85 | 1228 | 0.68 | 0.91 | 1267 | 0.73 | 0.98 | |

| Air Volume | | | 225 (0.90) | | | 250 (1.00) | | | 275 (1.10) | | | 300 (1.20) | | | 325 (1.30) | | | 350 (1.40) | | | 375 (1.50) | | | 400 (1.60) | | |
|------------|------|-------------|------------|------|-------------|------------|------|-------------|------------|------|-------------|------------|------|-------------|------------|------|-------------|------------|------|-------------|------------|------|-------------|------------|------|--|
| L/s | cfm | Rev/ min | kW | BHP | |
| 565 | 1200 | 1119 | 0.34 | 0.45 | 1163 | 0.37 | 0.49 | 1206 | 0.39 | 0.52 | 1247 | 0.42 | 0.56 | 1287 | 0.45 | 0.6 | 1326 | 0.48 | 0.64 | 1364 | 0.51 | 0.68 | 1402 | 0.54 | 0.72 | |
| 615 | 1300 | 1139 | 0.38 | 0.51 | 1182 | 0.41 | 0.55 | 1224 | 0.43 | 0.58 | 1265 | 0.46 | 0.62 | 1304 | 0.49 | 0.66 | 1342 | 0.53 | 0.71 | 1379 | 0.56 | 0.75 | 1416 | 0.59 | 0.79 | |
| 660 | 1400 | 1160 | 0.43 | 0.57 | 1202 | 0.46 | 0.61 | 1243 | 0.48 | 0.65 | 1283 | 0.51 | 0.69 | 1322 | 0.54 | 0.73 | 1359 | 0.58 | 0.78 | 1396 | 0.61 | 0.82 | 1432 | 0.65 | 0.87 | |
| 710 | 1500 | 1182 | 0.48 | 0.64 | 1223 | 0.51 | 0.68 | 1263 | 0.54 | 0.72 | 1303 | 0.57 | 0.76 | 1341 | 0.60 | 0.81 | 1378 | 0.63 | 0.85 | 1414 | 0.67 | 0.9 | 1449 | 0.70 | 0.94 | |
| 755 | 1600 | 1205 | 0.52 | 0.7 | 1245 | 0.56 | 0.75 | 1284 | 0.59 | 0.79 | 1323 | 0.63 | 0.84 | 1361 | 0.66 | 0.88 | 1397 | 0.69 | 0.93 | 1432 | 0.73 | 0.98 | 1467 | 0.77 | 1.03 | |
| 800 | 1700 | 1228 | 0.58 | 0.78 | 1268 | 0.61 | 0.82 | 1307 | 0.65 | 0.87 | 1345 | 0.69 | 0.92 | 1382 | 0.72 | 0.97 | 1417 | 0.76 | 1.02 | 1452 | 0.80 | 1.07 | 1486 | 0.83 | 1.11 | |
| 850 | 1800 | 1253 | 0.63 | 0.85 | 1292 | 0.68 | 0.91 | 1331 | 0.72 | 0.96 | 1368 | 0.75 | 1.01 | 1404 | 0.79 | 1.06 | 1439 | 0.83 | 1.11 | 1473 | 0.87 | 1.16 | 1506 | 0.90 | 1.21 | |
| 895 | 1900 | 1279 | 0.70 | 0.94 | 1317 | 0.75 | 1.00 | 1355 | 0.78 | 1.05 | 1392 | 0.82 | 1.1 | 1427 | 0.87 | 1.16 | 1461 | 0.90 | 1.21 | 1494 | 0.94 | 1.26 | 1527 | 0.98 | 1.31 | |
| 945 | 2000 | 1305 | 0.78 | 1.04 | 1343 | 0.82 | 1.10 | 1380 | 0.86 | 1.15 | 1416 | 0.90 | 1.21 | 1450 | 0.94 | 1.26 | 1484 | 0.98 | 1.32 | 1516 | 1.02 | 1.37 | 1549 | 1.06 | 1.42 | |

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, wet coil, etc.).

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

See page 25 for blower motors and drives and wet coil and options/Accessory air resistance data.

BELT DRIVE 1/4 TON

| HORIZONTAL | | | | | | | | | | | | External Static - Pa (in. w.g.) | | | | | | | | | | | | | | |
|------------|------|---------|-----------|------|---------|-----------|------|---------|-----------|------|---------|---------------------------------|------|---------|------------|------|---------|------------|------|---------|------------|------|---------|------------|------|--|
| Air Volume | | | 25 (0.10) | | | 50 (0.20) | | | 75 (0.30) | | | 100 (0.40) | | | 125 (0.50) | | | 150 (0.60) | | | 175 (0.70) | | | 200 (0.80) | | |
| L/s | cfm | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | |
| 565 | 1200 | 687 | 0.17 | 0.23 | 757 | 0.19 | 0.26 | 826 | 0.22 | 0.29 | 893 | 0.24 | 0.32 | 955 | 0.26 | 0.35 | 1008 | 0.29 | 0.39 | 1054 | 0.31 | 0.42 | 1095 | 0.34 | 0.46 | |
| 615 | 1300 | 730 | 0.20 | 0.27 | 798 | 0.22 | 0.30 | 864 | 0.25 | 0.33 | 926 | 0.28 | 0.37 | 982 | 0.30 | 0.40 | 1030 | 0.33 | 0.44 | 1073 | 0.35 | 0.47 | 1116 | 0.38 | 0.51 | |
| 660 | 1400 | 775 | 0.23 | 0.31 | 840 | 0.25 | 0.34 | 902 | 0.28 | 0.38 | 959 | 0.31 | 0.42 | 1009 | 0.34 | 0.46 | 1054 | 0.37 | 0.50 | 1096 | 0.40 | 0.53 | 1140 | 0.42 | 0.56 | |
| 710 | 1500 | 820 | 0.27 | 0.36 | 881 | 0.30 | 0.40 | 939 | 0.33 | 0.44 | 993 | 0.37 | 0.49 | 1039 | 0.40 | 0.53 | 1082 | 0.42 | 0.56 | 1124 | 0.44 | 0.59 | 1168 | 0.46 | 0.62 | |
| 755 | 1600 | 864 | 0.31 | 0.42 | 921 | 0.34 | 0.46 | 976 | 0.38 | 0.51 | 1027 | 0.42 | 0.56 | 1072 | 0.45 | 0.60 | 1113 | 0.47 | 0.63 | 1155 | 0.49 | 0.66 | 1198 | 0.51 | 0.69 | |
| 800 | 1700 | 907 | 0.36 | 0.48 | 961 | 0.40 | 0.53 | 1013 | 0.43 | 0.58 | 1061 | 0.47 | 0.63 | 1105 | 0.50 | 0.67 | 1146 | 0.52 | 0.70 | 1187 | 0.54 | 0.73 | 1230 | 0.57 | 0.77 | |
| 850 | 1800 | 948 | 0.42 | 0.56 | 999 | 0.46 | 0.61 | 1049 | 0.49 | 0.66 | 1096 | 0.53 | 0.71 | 1139 | 0.56 | 0.75 | 1180 | 0.58 | 0.78 | 1221 | 0.61 | 0.82 | 1262 | 0.64 | 0.86 | |
| 895 | 1900 | 987 | 0.48 | 0.64 | 1037 | 0.51 | 0.69 | 1086 | 0.55 | 0.74 | 1132 | 0.59 | 0.79 | 1174 | 0.62 | 0.83 | 1214 | 0.64 | 0.86 | 1255 | 0.67 | 0.90 | 1295 | 0.71 | 0.95 | |
| 945 | 2000 | 1028 | 0.54 | 0.73 | 1076 | 0.58 | 0.78 | 1123 | 0.62 | 0.83 | 1168 | 0.65 | 0.87 | 1210 | 0.68 | 0.91 | 1250 | 0.72 | 0.96 | 1289 | 0.75 | 1.00 | 1328 | 0.79 | 1.06 | |
| Air Volume | | | | | | | | | | | | External Static - Pa (in. w.g.) | | | | | | | | | | | | 400 (1.60) | | |
| L/s | cfm | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | |
| 565 | 1200 | 1139 | 0.37 | 0.49 | 1187 | 0.39 | 0.52 | 1234 | 0.40 | 0.54 | 1276 | 0.43 | 0.58 | 1314 | 0.46 | 0.62 | 1350 | 0.49 | 0.66 | 1385 | 0.53 | 0.71 | 1421 | 0.56 | 0.75 | |
| 615 | 1300 | 1161 | 0.40 | 0.54 | 1208 | 0.43 | 0.57 | 1254 | 0.45 | 0.60 | 1295 | 0.48 | 0.64 | 1332 | 0.51 | 0.69 | 1366 | 0.54 | 0.73 | 1401 | 0.58 | 0.78 | 1436 | 0.62 | 0.83 | |
| 660 | 1400 | 1185 | 0.44 | 0.59 | 1232 | 0.47 | 0.63 | 1276 | 0.50 | 0.67 | 1315 | 0.53 | 0.71 | 1351 | 0.57 | 0.76 | 1384 | 0.60 | 0.81 | 1419 | 0.64 | 0.86 | 1454 | 0.67 | 0.90 | |
| 710 | 1500 | 1212 | 0.49 | 0.66 | 1257 | 0.52 | 0.70 | 1299 | 0.55 | 0.74 | 1337 | 0.59 | 0.79 | 1371 | 0.63 | 0.84 | 1404 | 0.66 | 0.89 | 1438 | 0.70 | 0.94 | 1473 | 0.74 | 0.99 | |
| 755 | 1600 | 1242 | 0.54 | 0.73 | 1284 | 0.57 | 0.77 | 1324 | 0.61 | 0.82 | 1360 | 0.66 | 0.88 | 1394 | 0.69 | 0.93 | 1426 | 0.74 | 0.99 | 1460 | 0.78 | 1.04 | 1495 | 0.81 | 1.08 | |
| 800 | 1700 | 1272 | 0.60 | 0.81 | 1312 | 0.64 | 0.86 | 1350 | 0.69 | 0.92 | 1385 | 0.73 | 0.98 | 1418 | 0.78 | 1.04 | 1451 | 0.81 | 1.09 | 1485 | 0.85 | 1.14 | 1519 | 0.89 | 1.19 | |
| 850 | 1800 | 1302 | 0.67 | 0.9 | 1341 | 0.72 | 0.96 | 1377 | 0.76 | 1.02 | 1411 | 0.81 | 1.08 | 1444 | 0.86 | 1.15 | 1477 | 0.90 | 1.20 | 1510 | 0.93 | 1.25 | 1544 | 0.97 | 1.30 | |
| 895 | 1900 | 1334 | 0.75 | 1.01 | 1371 | 0.80 | 1.07 | 1406 | 0.84 | 1.13 | 1439 | 0.90 | 1.20 | 1471 | 0.94 | 1.26 | 1504 | 0.98 | 1.32 | 1537 | 1.02 | 1.37 | 1571 | 1.05 | 1.41 | |
| 945 | 2000 | 1365 | 0.84 | 1.12 | 1401 | 0.89 | 1.19 | 1435 | 0.93 | 1.25 | 1468 | 0.98 | 1.32 | 1500 | 1.03 | 1.38 | 1532 | 1.07 | 1.44 | 1565 | 1.11 | 1.49 | 1598 | 1.14 | 1.53 | |

BLOWER DATA**BELT DRIVE | 5 TON****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, wet coil, etc.).

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

See page 25 for blower motors and drives and wet coil and options/accessory air resistance data.

DOWNFLOW**Air Volume** **25 (0.10)** **50 (0.20)** **75 (0.30)** **100 (0.40)** **125 (0.50)** **150 (0.60)** **175 (0.70)** **200 (0.80)**

| L/s | cfm | Rev/ min | kW | BHP |
|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|
| 755 | 1600 | 764 | 0.34 | 0.46 | 823 | 0.38 | 0.51 | 882 | 0.42 | 0.56 | 940 | 0.45 | 0.60 | 997 | 0.48 | 0.65 | 1048 | 0.51 | 0.69 | 1094 | 0.54 | 0.72 | 1140 | 0.56 | 0.75 |
| 800 | 1700 | 806 | 0.40 | 0.53 | 863 | 0.43 | 0.58 | 919 | 0.46 | 0.62 | 975 | 0.50 | 0.67 | 1028 | 0.53 | 0.71 | 1075 | 0.56 | 0.75 | 1119 | 0.58 | 0.78 | 1164 | 0.60 | 0.81 |
| 850 | 1800 | 849 | 0.45 | 0.60 | 903 | 0.48 | 0.65 | 957 | 0.51 | 0.69 | 1010 | 0.55 | 0.74 | 1058 | 0.58 | 0.78 | 1102 | 0.61 | 0.82 | 1145 | 0.63 | 0.85 | 1189 | 0.66 | 0.88 |
| 895 | 1900 | 892 | 0.51 | 0.68 | 944 | 0.54 | 0.72 | 995 | 0.57 | 0.77 | 1045 | 0.61 | 0.82 | 1089 | 0.64 | 0.86 | 1131 | 0.66 | 0.89 | 1174 | 0.69 | 0.92 | 1217 | 0.71 | 0.95 |
| 945 | 2000 | 935 | 0.57 | 0.76 | 984 | 0.60 | 0.81 | 1033 | 0.64 | 0.86 | 1079 | 0.68 | 0.91 | 1122 | 0.71 | 0.95 | 1163 | 0.72 | 0.97 | 1204 | 0.75 | 1.00 | 1247 | 0.77 | 1.03 |
| 990 | 2100 | 977 | 0.63 | 0.85 | 1024 | 0.67 | 0.90 | 1070 | 0.71 | 0.95 | 1114 | 0.75 | 1.00 | 1155 | 0.77 | 1.03 | 1196 | 0.79 | 1.06 | 1237 | 0.81 | 1.09 | 1278 | 0.84 | 1.12 |
| 1040 | 2200 | 1018 | 0.71 | 0.95 | 1063 | 0.74 | 0.99 | 1107 | 0.78 | 1.04 | 1149 | 0.81 | 1.09 | 1190 | 0.84 | 1.12 | 1230 | 0.86 | 1.15 | 1270 | 0.88 | 1.18 | 1310 | 0.91 | 1.22 |
| 1085 | 2300 | 1057 | 0.78 | 1.04 | 1100 | 0.81 | 1.09 | 1143 | 0.85 | 1.14 | 1185 | 0.88 | 1.18 | 1225 | 0.91 | 1.22 | 1264 | 0.93 | 1.25 | 1303 | 0.96 | 1.29 | 1342 | 0.99 | 1.33 |
| 1135 | 2400 | 1096 | 0.85 | 1.14 | 1137 | 0.88 | 1.18 | 1179 | 0.92 | 1.23 | 1220 | 0.95 | 1.27 | 1260 | 0.98 | 1.31 | 1299 | 1.01 | 1.35 | 1337 | 1.04 | 1.40 | 1375 | 1.08 | 1.45 |

Air Volume **225 (0.90)** **250 (1.00)** **275 (1.10)** **300 (1.20)** **325 (1.30)** **350 (1.40)** **375 (1.50)** **400 (1.60)**

| L/s | cfm | Rev/ min | kW | BHP |
|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|
| 755 | 1600 | 1185 | 0.59 | 0.79 | 1229 | 0.60 | 0.81 | 1271 | 0.63 | 0.84 | 1313 | 0.64 | 0.86 | 1354 | 0.67 | 0.9 | 1393 | 0.70 | 0.94 | 1431 | 0.73 | 0.98 | 1468 | 0.77 | 1.03 |
| 800 | 1700 | 1208 | 0.63 | 0.84 | 1252 | 0.65 | 0.87 | 1294 | 0.67 | 0.9 | 1335 | 0.70 | 0.94 | 1375 | 0.73 | 0.98 | 1413 | 0.76 | 1.02 | 1449 | 0.80 | 1.07 | 1485 | 0.84 | 1.12 |
| 850 | 1800 | 1233 | 0.68 | 0.91 | 1276 | 0.70 | 0.94 | 1318 | 0.73 | 0.98 | 1358 | 0.76 | 1.02 | 1397 | 0.79 | 1.06 | 1434 | 0.83 | 1.11 | 1469 | 0.87 | 1.16 | 1504 | 0.90 | 1.21 |
| 895 | 1900 | 1261 | 0.73 | 0.98 | 1303 | 0.76 | 1.02 | 1343 | 0.79 | 1.06 | 1382 | 0.83 | 1.11 | 1420 | 0.87 | 1.16 | 1455 | 0.90 | 1.21 | 1490 | 0.94 | 1.26 | 1525 | 0.98 | 1.31 |
| 945 | 2000 | 1289 | 0.80 | 1.07 | 1330 | 0.83 | 1.11 | 1370 | 0.87 | 1.16 | 1407 | 0.90 | 1.21 | 1444 | 0.95 | 1.27 | 1478 | 0.98 | 1.32 | 1513 | 1.02 | 1.37 | 1547 | 1.06 | 1.42 |
| 990 | 2100 | 1319 | 0.87 | 1.16 | 1359 | 0.90 | 1.21 | 1397 | 0.95 | 1.27 | 1433 | 0.98 | 1.32 | 1468 | 1.03 | 1.38 | 1502 | 1.07 | 1.44 | 1536 | 1.11 | 1.49 | 1570 | 1.14 | 1.53 |
| 1040 | 2200 | 1350 | 0.95 | 1.27 | 1388 | 0.98 | 1.32 | 1424 | 1.03 | 1.38 | 1459 | 1.08 | 1.45 | 1494 | 1.13 | 1.51 | 1527 | 1.16 | 1.56 | 1561 | 1.20 | 1.61 | 1594 | 1.23 | 1.65 |
| 1085 | 2300 | 1380 | 1.03 | 1.38 | 1417 | 1.08 | 1.45 | 1452 | 1.13 | 1.51 | 1486 | 1.18 | 1.58 | 1520 | 1.22 | 1.63 | 1553 | 1.25 | 1.68 | 1587 | 1.29 | 1.73 | 1620 | 1.33 | 1.78 |
| 1135 | 2400 | 1411 | 1.13 | 1.51 | 1446 | 1.18 | 1.58 | 1480 | 1.23 | 1.65 | 1514 | 1.28 | 1.71 | 1547 | 1.32 | 1.77 | 1580 | 1.35 | 1.81 | 1614 | 1.39 | 1.86 | 1648 | 1.42 | 1.90 |

BLOWER DATA

BELT DRIVE | 5 TON

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, wet coil, etc.).

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

See page 25 for blower motors and drives and wet coil and options/Accessory air resistance data.

HORIZONTAL

| External Static - Pa (in. w.g.) | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|------|-----------|------|------|-----------|------|------|-----------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|
| Air Volume | | 25 (0.10) | | | 50 (0.20) | | | 75 (0.30) | | | 100 (0.40) | | | 125 (0.50) | | | 150 (0.60) | | | 175 (0.70) | | | 200 (0.80) | | |
| L/s | cfm | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP |
| 755 | 1600 | 752 | 0.30 | 0.40 | 818 | 0.34 | 0.45 | 882 | 0.37 | 0.50 | 943 | 0.41 | 0.55 | 999 | 0.44 | 0.59 | 1050 | 0.46 | 0.62 | 1097 | 0.49 | 0.66 | 1142 | 0.51 | 0.69 |
| 800 | 1700 | 792 | 0.34 | 0.46 | 855 | 0.39 | 0.52 | 917 | 0.42 | 0.56 | 975 | 0.46 | 0.61 | 1028 | 0.48 | 0.64 | 1077 | 0.51 | 0.68 | 1123 | 0.54 | 0.72 | 1166 | 0.56 | 0.75 |
| 850 | 1800 | 832 | 0.40 | 0.53 | 894 | 0.43 | 0.58 | 952 | 0.47 | 0.63 | 1007 | 0.50 | 0.67 | 1058 | 0.52 | 0.70 | 1105 | 0.55 | 0.74 | 1149 | 0.58 | 0.78 | 1192 | 0.61 | 0.82 |
| 895 | 1900 | 873 | 0.45 | 0.60 | 932 | 0.48 | 0.65 | 988 | 0.51 | 0.69 | 1040 | 0.54 | 0.73 | 1088 | 0.57 | 0.77 | 1134 | 0.60 | 0.81 | 1177 | 0.63 | 0.85 | 1219 | 0.67 | 0.90 |
| 945 | 2000 | 914 | 0.50 | 0.67 | 970 | 0.54 | 0.72 | 1023 | 0.57 | 0.76 | 1073 | 0.60 | 0.80 | 1120 | 0.63 | 0.85 | 1163 | 0.66 | 0.89 | 1205 | 0.70 | 0.94 | 1246 | 0.74 | 0.99 |
| 990 | 2100 | 955 | 0.55 | 0.74 | 1009 | 0.59 | 0.79 | 1059 | 0.63 | 0.84 | 1107 | 0.66 | 0.89 | 1152 | 0.69 | 0.93 | 1194 | 0.73 | 0.98 | 1235 | 0.77 | 1.03 | 1275 | 0.81 | 1.09 |
| 1040 | 2200 | 995 | 0.62 | 0.83 | 1047 | 0.66 | 0.88 | 1095 | 0.69 | 0.93 | 1141 | 0.73 | 0.98 | 1184 | 0.77 | 1.03 | 1225 | 0.81 | 1.08 | 1265 | 0.85 | 1.14 | 1304 | 0.90 | 1.20 |
| 1085 | 2300 | 1036 | 0.69 | 0.92 | 1085 | 0.72 | 0.97 | 1132 | 0.76 | 1.02 | 1175 | 0.81 | 1.08 | 1217 | 0.84 | 1.13 | 1257 | 0.89 | 1.19 | 1296 | 0.94 | 1.26 | 1334 | 0.98 | 1.32 |
| 1135 | 2400 | 1077 | 0.75 | 1.01 | 1124 | 0.80 | 1.07 | 1168 | 0.84 | 1.13 | 1210 | 0.89 | 1.19 | 1251 | 0.93 | 1.25 | 1290 | 0.98 | 1.32 | 1328 | 1.04 | 1.39 | 1365 | 1.09 | 1.46 |

| External Static - Pa (in. w.g.) | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|
| Air Volume | | 225 (0.90) | | | 250 (1.00) | | | 275 (1.10) | | | 300 (1.20) | | | 325 (1.30) | | | 350 (1.40) | | | 375 (1.50) | | | 400 (1.60) | | |
| L/s | cfm | Rev/min | kW | BHP |
| 755 | 1600 | 1185 | 0.54 | 0.72 | 1228 | 0.56 | 0.75 | 1270 | 0.59 | 0.79 | 1310 | 0.62 | 0.83 | 1349 | 0.66 | 0.88 | 1387 | 0.69 | 0.93 | 1423 | 0.73 | 0.98 | 1459 | 0.77 | 1.03 |
| 800 | 1700 | 1209 | 0.58 | 0.78 | 1251 | 0.61 | 0.82 | 1292 | 0.65 | 0.87 | 1331 | 0.69 | 0.92 | 1370 | 0.72 | 0.97 | 1407 | 0.76 | 1.02 | 1443 | 0.80 | 1.07 | 1478 | 0.84 | 1.12 |
| 850 | 1800 | 1234 | 0.64 | 0.86 | 1275 | 0.68 | 0.91 | 1315 | 0.72 | 0.96 | 1354 | 0.75 | 1.01 | 1391 | 0.79 | 1.06 | 1428 | 0.83 | 1.11 | 1463 | 0.87 | 1.17 | 1498 | 0.91 | 1.22 |
| 895 | 1900 | 1260 | 0.71 | 0.95 | 1300 | 0.75 | 1.00 | 1340 | 0.78 | 1.05 | 1377 | 0.83 | 1.11 | 1414 | 0.87 | 1.16 | 1450 | 0.91 | 1.22 | 1485 | 0.95 | 1.27 | 1519 | 0.98 | 1.32 |
| 945 | 2000 | 1287 | 0.78 | 1.04 | 1326 | 0.82 | 1.10 | 1365 | 0.87 | 1.16 | 1402 | 0.90 | 1.21 | 1437 | 0.95 | 1.27 | 1472 | 0.99 | 1.33 | 1507 | 1.03 | 1.38 | 1541 | 1.07 | 1.43 |
| 990 | 2100 | 1314 | 0.86 | 1.15 | 1353 | 0.90 | 1.21 | 1391 | 0.95 | 1.27 | 1427 | 0.99 | 1.33 | 1462 | 1.04 | 1.39 | 1496 | 1.07 | 1.44 | 1530 | 1.12 | 1.50 | 1564 | 1.16 | 1.55 |
| 1040 | 2200 | 1343 | 0.94 | 1.26 | 1381 | 0.99 | 1.33 | 1417 | 1.04 | 1.39 | 1453 | 1.08 | 1.45 | 1487 | 1.13 | 1.51 | 1521 | 1.16 | 1.56 | 1555 | 1.21 | 1.62 | 1589 | 1.25 | 1.67 |
| 1085 | 2300 | 1372 | 1.04 | 1.39 | 1409 | 1.08 | 1.45 | 1445 | 1.13 | 1.52 | 1480 | 1.18 | 1.58 | 1513 | 1.22 | 1.64 | 1547 | 1.26 | 1.69 | 1580 | 1.31 | 1.75 | 1614 | 1.34 | 1.80 |
| 1135 | 2400 | 1402 | 1.13 | 1.52 | 1438 | 1.19 | 1.59 | 1473 | 1.23 | 1.65 | 1507 | 1.28 | 1.71 | 1541 | 1.32 | 1.77 | 1574 | 1.37 | 1.83 | 1607 | 1.40 | 1.88 | 1641 | 1.44 | 1.93 |

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, wet coil, etc.).

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

See page 25 for blower motors and drives and wet coil and options/Accessory air resistance data.

DOWNFLOW

| Air Volume | External Static - Pa (in.w.g.) | | | | | | | | | | | | |
|------------|--------------------------------|-----------|-----------|------------|------------|------------|------------|------------|------|------|---------|------|------|
| | 25 (0.10) | 50 (0.20) | 75 (0.30) | 100 (0.40) | 125 (0.50) | 150 (0.60) | 175 (0.70) | 200 (0.80) | | | | | |
| L/s | cfm | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP |
| 900 | 1900 | 578 | 0.33 | 0.44 | 610 | 0.37 | 0.49 | 643 | 0.40 | 0.54 | 678 | 0.45 | 0.60 |
| 945 | 2000 | 600 | 0.37 | 0.50 | 632 | 0.42 | 0.56 | 665 | 0.46 | 0.61 | 699 | 0.49 | 0.66 |
| 990 | 2100 | 623 | 0.43 | 0.57 | 655 | 0.46 | 0.62 | 688 | 0.51 | 0.68 | 721 | 0.54 | 0.73 |
| 1040 | 2200 | 647 | 0.48 | 0.65 | 678 | 0.52 | 0.70 | 711 | 0.56 | 0.75 | 743 | 0.60 | 0.81 |
| 1085 | 2300 | 671 | 0.54 | 0.73 | 702 | 0.58 | 0.78 | 734 | 0.62 | 0.83 | 766 | 0.66 | 0.89 |
| 1135 | 2400 | 696 | 0.60 | 0.81 | 726 | 0.65 | 0.87 | 757 | 0.69 | 0.92 | 788 | 0.73 | 0.98 |
| 1180 | 2500 | 720 | 0.67 | 0.90 | 750 | 0.71 | 0.95 | 780 | 0.75 | 1.01 | 811 | 0.80 | 1.07 |
| 1225 | 2600 | 745 | 0.74 | 0.99 | 774 | 0.78 | 1.05 | 804 | 0.83 | 1.11 | 834 | 0.87 | 1.17 |
| 1275 | 2700 | 770 | 0.81 | 1.09 | 799 | 0.86 | 1.15 | 828 | 0.90 | 1.21 | 858 | 0.95 | 1.28 |
| 1320 | 2800 | 795 | 0.89 | 1.19 | 824 | 0.93 | 1.25 | 853 | 0.99 | 1.33 | 882 | 1.04 | 1.40 |
| 1370 | 2900 | 820 | 0.97 | 1.30 | 849 | 1.02 | 1.37 | 878 | 1.08 | 1.45 | 907 | 1.14 | 1.53 |

| Air Volume | External Static - Pa (in.w.g.) | | | | | | | | | | | | |
|------------|--------------------------------|------------|------------|------------|------------|------------|------------|------------|------|------|---------|------|------|
| | 820 | 250 (1.00) | 275 (1.10) | 300 (1.20) | 325 (1.30) | 350 (1.40) | 375 (1.50) | 400 (1.60) | | | | | |
| L/s | cfm | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP | Rev/min | kW | BHP |
| 900 | 1900 | 853 | 0.66 | 0.88 | 885 | 0.70 | 0.94 | 915 | 0.74 | 0.99 | 944 | 0.78 | 1.05 |
| 945 | 2000 | 869 | 0.72 | 0.96 | 899 | 0.75 | 1.01 | 929 | 0.80 | 1.07 | 957 | 0.84 | 1.13 |
| 990 | 2100 | 885 | 0.78 | 1.04 | 915 | 0.82 | 1.10 | 944 | 0.86 | 1.15 | 971 | 0.91 | 1.22 |
| 1040 | 2200 | 902 | 0.84 | 1.13 | 931 | 0.89 | 1.19 | 959 | 0.93 | 1.24 | 986 | 0.98 | 1.31 |
| 1085 | 2300 | 920 | 0.92 | 1.23 | 948 | 0.96 | 1.29 | 975 | 1.01 | 1.35 | 1001 | 1.05 | 1.41 |
| 1135 | 2400 | 938 | 0.99 | 1.33 | 965 | 1.04 | 1.39 | 992 | 1.08 | 1.45 | 1017 | 1.13 | 1.52 |
| 1180 | 2500 | 956 | 1.07 | 1.44 | 983 | 1.13 | 1.51 | 1009 | 1.17 | 1.57 | 1034 | 1.22 | 1.63 |
| 1225 | 2600 | 975 | 1.16 | 1.56 | 1001 | 1.22 | 1.63 | 1026 | 1.26 | 1.69 | 1051 | 1.31 | 1.75 |
| 1275 | 2700 | 995 | 1.25 | 1.68 | 1020 | 1.31 | 1.75 | 1044 | 1.35 | 1.81 | 1069 | 1.40 | 1.87 |
| 1320 | 2800 | 1015 | 1.35 | 1.81 | 1039 | 1.40 | 1.87 | 1063 | 1.45 | 1.94 | 1086 | 1.49 | 2.00 |
| 1370 | 2900 | 1035 | 1.45 | 1.94 | 1058 | 1.49 | 2.00 | 1081 | 1.54 | 2.07 | 1104 | 1.59 | 2.13 |

BLOWER DATA

BELT DRIVE | 6 TON

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, wet coil, etc.).

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

See page 25 for blower motors and drives and wet coil and options/accessory air resistance data.

HORIZONTAL

Air Volume 25 (0.10) 50 (0.20) 75 (0.30) 100 (0.40) 125 (0.50) 150 (0.60) 175 (0.70) 200 (0.80)

| L/s | cfm | Rev/ min | kW | BHP | |
|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|------|
| 900 | 1900 | 581 | 0.33 | 0.44 | 618 | 0.37 | 0.49 | 655 | 0.40 | 0.54 | 692 | 0.44 | 0.59 | 729 | 0.48 | 0.64 | 765 | 0.51 | 0.69 | |
| 945 | 2000 | 602 | 0.37 | 0.50 | 639 | 0.41 | 0.55 | 676 | 0.46 | 0.61 | 713 | 0.49 | 0.66 | 749 | 0.53 | 0.71 | 784 | 0.57 | 0.76 | |
| 990 | 2100 | 625 | 0.43 | 0.57 | 661 | 0.46 | 0.62 | 698 | 0.50 | 0.67 | 735 | 0.54 | 0.73 | 770 | 0.58 | 0.78 | 804 | 0.63 | 0.84 | |
| 1040 | 2200 | 648 | 0.48 | 0.64 | 685 | 0.51 | 0.69 | 721 | 0.56 | 0.75 | 757 | 0.60 | 0.80 | 791 | 0.64 | 0.86 | 824 | 0.69 | 0.92 | |
| 1085 | 2300 | 673 | 0.53 | 0.71 | 709 | 0.57 | 0.77 | 745 | 0.62 | 0.83 | 780 | 0.66 | 0.88 | 813 | 0.70 | 0.94 | 845 | 0.75 | 1.01 | |
| 1135 | 2400 | 699 | 0.59 | 0.79 | 734 | 0.63 | 0.85 | 769 | 0.68 | 0.91 | 803 | 0.72 | 0.97 | 835 | 0.78 | 1.04 | 866 | 0.83 | 1.11 | |
| 1180 | 2500 | 725 | 0.66 | 0.88 | 759 | 0.70 | 0.94 | 793 | 0.75 | 1.00 | 826 | 0.80 | 1.07 | 857 | 0.85 | 1.14 | 887 | 0.90 | 1.21 | |
| 1225 | 2600 | 752 | 0.72 | 0.97 | 785 | 0.78 | 1.04 | 818 | 0.82 | 1.10 | 850 | 0.87 | 1.17 | 880 | 0.93 | 1.25 | 909 | 0.98 | 1.32 | |
| 1275 | 2700 | 779 | 0.80 | 1.07 | 811 | 0.85 | 1.14 | 843 | 0.90 | 1.21 | 873 | 0.96 | 1.29 | 902 | 1.02 | 1.37 | 931 | 1.07 | 1.44 | |
| 1320 | 2800 | 805 | 0.88 | 1.18 | 837 | 0.94 | 1.26 | 868 | 0.99 | 1.33 | 897 | 1.05 | 1.41 | 925 | 1.11 | 1.49 | 952 | 1.17 | 1.57 | |
| 1370 | 2900 | 832 | 0.97 | 1.30 | 863 | 1.03 | 1.38 | 892 | 1.09 | 1.46 | 921 | 1.15 | 1.54 | 948 | 1.22 | 1.63 | 974 | 1.28 | 1.71 | |
| | | | | | | | | | | | | | | | | | | 1000 | 1.34 | 1.80 |

Air Volume 225 (0.90) 250 (1.00) 275 (1.10) 300 (1.20) 325 (1.30) 350 (1.40) 375 (1.50) 400 (1.60)

| L/s | cfm | Rev/ min | kW | BHP |
|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|
| 900 | 1900 | 864 | 0.65 | 0.87 | 895 | 0.69 | 0.93 | 924 | 0.74 | 0.99 | 953 | 0.79 | 1.06 | 980 | 0.84 | 1.12 | 1007 | 0.88 | 1.18 |
| 945 | 2000 | 881 | 0.71 | 0.95 | 911 | 0.75 | 1.01 | 940 | 0.81 | 1.08 | 967 | 0.85 | 1.14 | 994 | 0.90 | 1.21 | 1020 | 0.95 | 1.27 |
| 990 | 2100 | 898 | 0.77 | 1.03 | 927 | 0.82 | 1.10 | 955 | 0.87 | 1.17 | 982 | 0.92 | 1.23 | 1008 | 0.97 | 1.30 | 1033 | 1.02 | 1.37 |
| 1040 | 2200 | 916 | 0.84 | 1.12 | 944 | 0.89 | 1.19 | 971 | 0.94 | 1.26 | 998 | 0.99 | 1.33 | 1023 | 1.04 | 1.40 | 1047 | 1.10 | 1.47 |
| 1085 | 2300 | 934 | 0.91 | 1.22 | 961 | 0.96 | 1.29 | 988 | 1.01 | 1.36 | 1014 | 1.07 | 1.43 | 1038 | 1.12 | 1.50 | 1062 | 1.18 | 1.58 |
| 1135 | 2400 | 952 | 0.98 | 1.32 | 979 | 1.04 | 1.40 | 1005 | 1.10 | 1.47 | 1030 | 1.15 | 1.54 | 1054 | 1.21 | 1.62 | 1077 | 1.26 | 1.69 |
| 1180 | 2500 | 971 | 1.07 | 1.43 | 997 | 1.13 | 1.51 | 1022 | 1.19 | 1.59 | 1046 | 1.24 | 1.66 | 1069 | 1.30 | 1.74 | 1092 | 1.35 | 1.81 |
| 1225 | 2600 | 990 | 1.16 | 1.55 | 1015 | 1.22 | 1.63 | 1039 | 1.28 | 1.71 | 1063 | 1.34 | 1.79 | 1086 | 1.39 | 1.86 | 1108 | 1.45 | 1.94 |
| 1275 | 2700 | 1009 | 1.25 | 1.68 | 1034 | 1.31 | 1.76 | 1057 | 1.37 | 1.84 | 1080 | 1.43 | 1.92 | 1102 | 1.48 | 1.99 | 1124 | 1.54 | 2.07 |
| 1320 | 2800 | 1028 | 1.36 | 1.82 | 1052 | 1.42 | 1.90 | 1075 | 1.48 | 1.98 | 1097 | 1.54 | 2.06 | 1119 | 1.59 | 2.13 | 1140 | 1.65 | 2.21 |
| 1370 | 2900 | 1048 | 1.46 | 1.96 | 1071 | 1.52 | 2.04 | 1093 | 1.58 | 2.12 | 1115 | 1.64 | 2.20 | 1136 | 1.70 | 2.28 | 1157 | 1.75 | 2.34 |
| | | | | | | | | | | | | | | | | | 1177 | 1.81 | 2.42 |

BLOWER DATA

BELT DRIVE KIT SPECIFICATIONS - 036-060

| Model No. | Motor kW (HP) | | No. of Speeds | Drive Kits and Rev/Min Range | | | | | |
|-----------|---------------|-------------|---------------|------------------------------|------------|------------|-------------|-------------------|-------------------|
| | Nominal | Maximum | | ZA07 | ZA08 | ZA09 | ZA10 | ¹ ZA11 | ² ZA12 |
| 036 | 0.62 (0.83) | 0.71 (0.95) | 1 | 705 - 1077 | --- | --- | 1025 - 1391 | --- | --- |
| | 0.93 (1.25) | 1.07 (1.43) | 1 | 705 - 1077 | --- | --- | 1025 - 1391 | --- | --- |
| 048 | 0.62 (0.83) | 0.71 (0.95) | 1 | --- | 759 - 1158 | --- | --- | 1111 - 1437 | --- |
| | 0.93 (1.25) | 1.07 (1.43) | 1 | --- | 759 - 1158 | --- | --- | 1111 - 1437 | --- |
| 060 | 0.93 (1.25) | 1.07 (1.43) | 1 | --- | --- | 919 - 1247 | --- | --- | 1190 - 1540 |
| | 1.24 (1.66) | 1.42 (1.91) | 1 | --- | --- | 919 - 1247 | --- | --- | 1190 - 1540 |

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

¹ ZA11 drive kits require the 0.93 kW (1.25 hp) motor.

² ZA12 drive kit requires the 1.24 kW (1.66 hp) motor.

BELT DRIVE KIT SPECIFICATIONS - 074

| Model No. | Motor kW (HP) | | No. of Speeds | Drive Kits and Rev/Min Range | | |
|-----------|---------------|-------------|---------------|------------------------------|------------|------------|
| | Nominal | Maximum | | ZAA03 | ZAA04 | ZAA05 |
| 074 | 1.24 (1.66) | 1.42 (1.91) | 2 | 665 - 921 | 768 - 1023 | 921 - 1177 |
| | 1.24 (1.66) | 1.42 (1.91) | 2 | 665 - 921 | 768 - 1023 | 921 - 1177 |

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

POWER EXHAUST FAN PERFORMANCE

| Return Air System Static Pressure | | Air Volume Exhausted | | | |
|-----------------------------------|----------|----------------------|------|--|--|
| Pa | in. w.g. | L/s | cfm | | |
| 0 | 0.00 | 880 | 1865 | | |
| 12 | 0.05 | 842 | 1785 | | |
| 25 | 0.10 | 807 | 1710 | | |
| 37 | 0.15 | 769 | 1630 | | |
| 50 | 0.20 | 729 | 1545 | | |
| 62 | 0.25 | 684 | 1450 | | |
| 75 | 0.30 | 637 | 1350 | | |
| 87 | 0.35 | 585 | 1240 | | |

OPTIONS / ACCESSORIES AIR RESISTANCE

| Air Volume | | 036, 048 | | 060, 074 | | Electric Heat | | Economizer | | | |
|------------|------|----------|------|----------|----------|---------------|------|------------|----------|----|----------|
| | | L/s | cfm | Pa | in. w.g. | | | Pa | in. w.g. | Pa | in. w.g. |
| 425 | 900 | 2 | 0.01 | --- | --- | 12 | 0.05 | 7 | 0.03 | 10 | 0.04 |
| 472 | 1000 | 5 | 0.02 | --- | --- | 15 | 0.06 | 7 | 0.03 | 12 | 0.05 |
| 519 | 1100 | 5 | 0.02 | --- | --- | 20 | 0.08 | 10 | 0.04 | 12 | 0.05 |
| 566 | 1200 | 5 | 0.02 | --- | --- | 22 | 0.09 | 12 | 0.05 | 15 | 0.06 |
| 613 | 1300 | 7 | 0.03 | --- | --- | 30 | 0.12 | 12 | 0.05 | 17 | 0.07 |
| 661 | 1400 | 7 | 0.03 | --- | --- | 42 | 0.17 | 15 | 0.06 | 20 | 0.08 |
| 708 | 1500 | 10 | 0.04 | --- | --- | 55 | 0.22 | 17 | 0.07 | 20 | 0.08 |
| 755 | 1600 | 10 | 0.04 | 7 | 0.03 | 65 | 0.26 | 20 | 0.08 | 22 | 0.09 |
| 802 | 1700 | 12 | 0.05 | 7 | 0.03 | 75 | 0.30 | 22 | 0.09 | 25 | 0.10 |
| 849 | 1800 | 12 | 0.05 | 7 | 0.03 | 82 | 0.33 | 25 | 0.10 | 27 | 0.11 |
| 897 | 1900 | 15 | 0.06 | 10 | 0.04 | 82 | 0.33 | 27 | 0.11 | 30 | 0.12 |
| 944 | 2000 | 15 | 0.06 | 10 | 0.04 | 77 | 0.31 | 30 | 0.12 | 32 | 0.13 |
| 991 | 2100 | --- | --- | 12 | 0.05 | 67 | 0.27 | 32 | 0.13 | 35 | 0.14 |
| 1038 | 2200 | --- | --- | 12 | 0.05 | 72 | 0.29 | 35 | 0.14 | 37 | 0.15 |
| 1085 | 2300 | --- | --- | 12 | 0.05 | 77 | 0.31 | 37 | 0.15 | 40 | 0.16 |
| 1133 | 2400 | --- | --- | 15 | 0.06 | 80 | 0.32 | 40 | 0.16 | 45 | 0.18 |
| 1180 | 2500 | --- | --- | 15 | 0.06 | 85 | 0.34 | 45 | 0.18 | 47 | 0.19 |
| 1227 | 2600 | --- | --- | 17 | 0.07 | 94 | 0.38 | 47 | 0.19 | 50 | 0.20 |
| 1274 | 2700 | --- | --- | 17 | 0.07 | 104 | 0.42 | 50 | 0.20 | 52 | 0.21 |
| 1321 | 2800 | --- | --- | 17 | 0.07 | 112 | 0.45 | 55 | 0.22 | 57 | 0.23 |
| 1369 | 2900 | --- | --- | 20 | 0.08 | 122 | 0.49 | 57 | 0.23 | 60 | 0.24 |

BLOWER DATA

CEILING DIFFUSERS AIR RESISTANCE

| Air Volume | | RTD9-65S Step-Down Diffuser | | | | FD9-65S Flush Diffuser | | RTD11-95S Step-Down Diffuser | | | | FD11-95S Flush Diffuser | | | | |
|------------|------|-----------------------------|----------|-------------------------|----------|------------------------------|----------|------------------------------|----------|-------------------------|----------|-------------------------------|----------|------|----------|------|
| | | 2 Ends Open | | 1 Side & 2 Ends Open | | | | 2 Ends Open | | 1 Side & 2 Ends Open | | | | | | |
| L/s | cfm | Pa | in. w.g. | Pa | in. w.g. | Pa | in. w.g. | Pa | in. w.g. | Pa | in. w.g. | Pa | in. w.g. | Pa | in. w.g. | |
| 375 | 800 | 37 | 0.15 | 32 | 0.13 | 27 | 0.11 | 27 | 0.11 | --- | --- | --- | --- | --- | --- | |
| 470 | 1000 | 47 | 0.19 | 40 | 0.16 | 35 | 0.14 | 35 | 0.14 | --- | --- | --- | --- | --- | --- | |
| 565 | 1200 | 62 | 0.25 | 50 | 0.20 | 42 | 0.17 | 42 | 0.17 | --- | --- | --- | --- | --- | --- | |
| 660 | 1400 | 82 | 0.33 | 65 | 0.26 | 50 | 0.20 | 50 | 0.20 | --- | --- | --- | --- | --- | --- | |
| 755 | 1600 | 107 | 0.43 | 80 | 0.32 | 50 | 0.20 | 50 | 0.24 | --- | --- | --- | --- | --- | --- | |
| 850 | 1800 | 139 | 0.56 | 99 | 0.40 | 75 | 0.30 | 75 | 0.30 | 32 | 0.13 | 27 | 0.11 | 22 | 0.09 | |
| 945 | 2000 | 182 | 0.73 | 124 | 0.50 | 90 | 0.36 | 90 | 0.36 | 37 | 0.15 | 32 | 0.13 | 27 | 0.11 | |
| 1040 | 2200 | 236 | 0.95 | 157 | 0.63 | 109 | 0.44 | 109 | 0.44 | 45 | 0.18 | 37 | 0.15 | 30 | 0.12 | |
| 1130 | 2400 | --- | --- | --- | --- | --- | --- | --- | 52 | 0.21 | 45 | 0.18 | 37 | 0.15 | 35 | 0.14 |
| 1225 | 2600 | --- | --- | --- | --- | --- | --- | --- | 60 | 0.24 | 52 | 0.21 | 45 | 0.18 | 42 | 0.17 |
| 1320 | 2800 | --- | --- | --- | --- | --- | --- | --- | 67 | 0.27 | 60 | 0.24 | 52 | 0.21 | 50 | 0.20 |
| 1415 | 3000 | --- | --- | --- | --- | --- | --- | --- | 80 | 0.32 | 72 | 0.29 | 62 | 0.25 | 62 | 0.25 |
| 1510 | 3200 | --- | --- | --- | --- | --- | --- | --- | 102 | 0.41 | 92 | 0.37 | 80 | 0.32 | 77 | 0.31 |
| 1605 | 3400 | --- | --- | --- | --- | --- | --- | --- | 124 | 0.50 | 112 | 0.45 | 97 | 0.39 | 92 | 0.37 |
| 1700 | 3600 | --- | --- | --- | --- | --- | --- | --- | 152 | 0.61 | 134 | 0.54 | 119 | 0.48 | 109 | 0.44 |

CEILING DIFFUSER AIR THROW DATA

| Air Volume | | ¹ Effective Throw | | | |
|------------|------|-------------------|---------|----------|---------|
| Model No. | | RTD9-65S | | FD9-65S | |
| L/s | cfm | m | ft. | m | ft. |
| 375 | 800 | 3 - 5 | 10 - 17 | 4 - 5 | 14 - 18 |
| 470 | 1000 | 3 - 5 | 10 - 17 | 5 - 6 | 15 - 20 |
| 565 | 1200 | 3 - 5 | 11 - 18 | 5 - 7 | 16 - 22 |
| 660 | 1400 | 4 - 6 | 12 - 19 | 5 - 7 | 17 - 24 |
| 755 | 1600 | 4 - 6 | 12 - 20 | 5 - 8 | 18 - 25 |
| 850 | 1800 | 4 - 6 | 13 - 21 | 6 - 9 | 20 - 28 |
| 945 | 2000 | 4 - 7 | 14 - 23 | 6 - 9 | 21 - 29 |
| 1040 | 2200 | 5 - 8 | 16 - 25 | 7 - 9 | 22 - 30 |
| Model No. | | RTD11-95S | | FD11-95S | |
| 1225 | 2600 | 7 - 9 | 24 - 29 | 6 - 7 | 19 - 24 |
| 1320 | 2800 | 8 - 9 | 25 - 30 | 6 - 9 | 20 - 28 |
| 1415 | 3000 | 8 - 10 | 27 - 33 | 6 - 9 | 21 - 29 |
| 1510 | 3200 | 9 - 11 | 28 - 35 | 7 - 9 | 22 - 29 |
| 1605 | 3400 | 9 - 11 | 30 - 37 | 7 - 9 | 22 - 30 |
| 1700 | 3600 | 8 - 10 | 25 - 33 | 7 - 8 | 22 - 24 |

^¹ Effective throw based on terminal velocities of 23 m per minute (75 ft. per minute).

ELECTRICAL DATA

| Model No. | | ZCB036S4 | ZCB048S4 | ZCB060S4 | ZCB074S4 |
|---|--------------------------------|-----------------|-----------------|-----------------|-----------------|
| ¹ Voltage - 50hz with Neutral | | 380/420V - 3 Ph |
| Compressor | Rated Load Amps | 4 | 5.5 | 8 | 8.5 |
| | Locked Rotor Amps | 31 | 37 | 59 | 66 |
| Outdoor Fan Motor | Full Load Amps | 0.9 | 0.9 | 0.9 | 1 |
| Power Exhaust (1) 0.25 kW | Full Load Amps | 0.6 | 0.6 | 0.6 | 1.3 |
| Indoor Blower Motor | kW | 0.62 | 0.93 | 0.62 | 0.93 |
| | Full Load Amps | 1.6 | 2 | 1.6 | 2 |
| ² Maximum Overcurrent Protection | Unit Only | 15 | 15 | 15 | 20 |
| | With (1) 0.25 kW Power Exhaust | 15 | 15 | 15 | 20 |
| ³ Minimum Circuit Ampacity | Unit Only | 8 | 8 | 10 | 10 |
| | With (1) 0.25 kW Power Exhaust | 9 | 9 | 10 | 11 |

ELECTRIC HEAT DATA

| Electric Heat Voltage | | 420V | 420V | 420V | 420V | 420V | 420V | 420V |
|---|---|----------------|------|------|------|------|------|------|
| ² Maximum Overcurrent Protection | Unit+ ⁴ Electric Heat | 3.8 kW | 15 | 15 | 15 | 15 | 20 | 20 |
| | | 5.7 kW | 15 | 15 | 15 | 15 | 20 | 20 |
| | | 7.7 kW | 20 | 20 | 20 | 20 | 20 | 20 |
| | | 11.5 kW | 25 | 25 | 25 | 25 | 25 | 25 |
| | | 17.2 kW | --- | --- | 35 | 35 | 35 | 35 |
| | | 23 kW | --- | --- | --- | --- | --- | 45 |
| ³ Minimum Circuit Ampacity | Unit+ ⁴ Electric Heat | 3.8 kW | 9 | 10 | 10 | 10 | 13 | 14 |
| | | 5.7 kW | 12 | 13 | 12 | 13 | 13 | 14 |
| | | 7.7 kW | 16 | 16 | 16 | 16 | 16 | 17 |
| | | 11.5 kW | 22 | 23 | 22 | 23 | 23 | 24 |
| | | 17.2 kW | --- | --- | 32 | 33 | 33 | 34 |
| | | 23 kW | --- | --- | --- | --- | --- | 43 |
| ² Maximum Overcurrent Protection | Unit+ ⁴ Electric Heat and (1) 0.25 kW Power Exhaust | 3.8 kW | 15 | 15 | 15 | 15 | 20 | 20 |
| | | 5.7 kW | 15 | 15 | 15 | 15 | 20 | 20 |
| | | 7.7 kW | 20 | 20 | 20 | 20 | 20 | 20 |
| | | 11.5 kW | 25 | 25 | 25 | 25 | 25 | 25 |
| | | 17.2 kW | --- | --- | 35 | 35 | 35 | 35 |
| | | 23 kW | --- | --- | --- | --- | --- | 45 |
| ³ Minimum Circuit Ampacity | Unit+ ⁴ Electric Heat and (1) 0.25 kW Power Exhaust | 3.8 kW | 10 | 10 | 10 | 11 | 14 | 15 |
| | | 5.7 kW | 13 | 14 | 13 | 14 | 14 | 15 |
| | | 7.7 kW | 16 | 17 | 16 | 17 | 17 | 18 |
| | | 11.5 kW | 23 | 23 | 23 | 23 | 23 | 25 |
| | | 17.2 kW | --- | --- | 33 | 33 | 33 | 35 |
| | | 23 kW | --- | --- | --- | --- | --- | 45 |

ELECTRIC HEAT ACCESSORIES

| | | | | | | | | |
|-----------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Unit Fuse Block | Unit Only | 10A29 |
| | Unit + Power Exhaust | 10A29 |

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

² Heating, Air Conditioning, Refrigeration type breaker or fuse.

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

⁴ Nominal kW based on 420V-3ph-50hz.

ELECTRIC HEAT CAPACITIES

| Input Voltage | 3.8 kW | | | 5.7 kW | | | 7.7 kW | | |
|---------------|--------------|----------|-------------|--------------|----------|-------------|--------------|----------|-------------|
| | No of Stages | kW input | Btuh Output | No of Stages | kW input | Btuh Output | No of Stages | kW input | Btuh Output |
| 380 | 1 | 3.1 | 10 700 | 1 | 4.7 | 16 000 | 1 | 6.3 | 21 400 |
| 400 | 1 | 3.5 | 11 800 | 1 | 5.2 | 17 800 | 1 | 6.9 | 23 700 |
| 420 | 1 | 3.8 | 13 100 | 1 | 5.7 | 19 600 | 1 | 7.7 | 26 100 |
| Input Voltage | 11.5 kW | | | 17.2 kW | | | 23 kW | | |
| | No of Stages | kW input | Btuh Output | No of Stages | kW input | Btuh Output | No of Stages | kW input | Btuh Output |
| 380 | 1 | 9.4 | 32 100 | 1 | 14.1 | 48 100 | 1 | 18.8 | 64 200 |
| 400 | 1 | 10.4 | 35 500 | 1 | 15.6 | 53 300 | 1 | 20.9 | 71 200 |
| 420 | 1 | 11.5 | 39 200 | 1 | 17.2 | 58 800 | 1 | 23.0 | 78 500 |

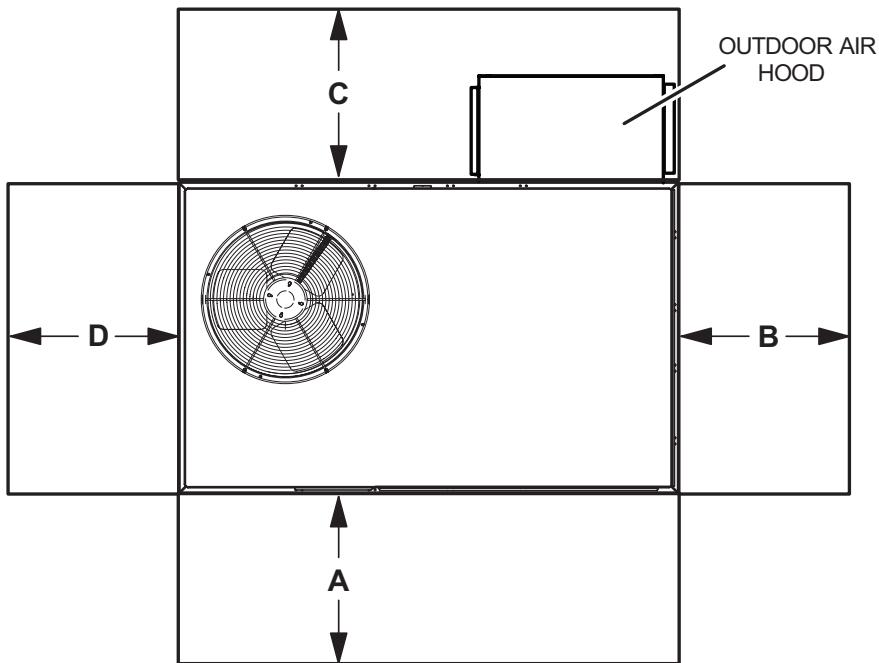
OUTDOOR SOUND DATA

| Unit Model No. | Octave Band Sound Power Levels dB, re 10 ⁻¹² Watts - Center Frequency - Hz | | | | | | | ¹ Sound Rating Number (dBA) |
|----------------|---|-----|-----|------|------|------|------|--|
| | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| ZCB036 | 81 | 78 | 77 | 72 | 68 | 66 | 61 | 77 |
| ZCB048 | 84 | 80 | 79 | 74 | 70 | 67 | 63 | 80 |
| ZCB060 | 80 | 76 | 76 | 73 | 68 | 66 | 64 | 78 |
| ZCB074 | 88 | 85 | 84 | 79 | 72 | 66 | 64 | 84 |

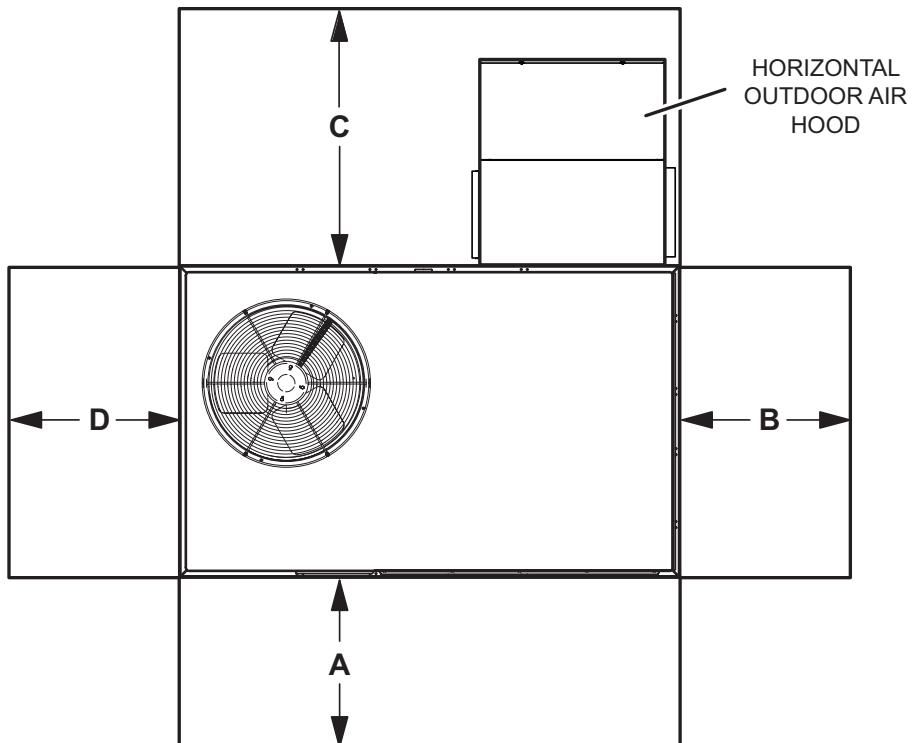
¹ Sound Rating Number according to AHRI Standard 270-2008. Sound Rating Number is the overall A-Weighted Sound Power Level, (LWA), dB (100 Hz to 10,000 Hz).

UNIT CLEARANCES

UNIT WITH DOWNGLOW ECONOMIZER



UNIT WITH HORIZONTAL ECONOMIZER



| 1 Unit Clearance | A | | B | | C Downflow | | C Horizontal | | D | | Top Clearance |
|-----------------------------|-----|-----|-----|-----|---------------|-----|-----------------|-----|-----|-----|------------------|
| | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | |
| Service Clearance | 914 | 36 | 914 | 36 | 914 | 36 | 1524 | 60 | 914 | 36 | Unobstructed |
| Minimum Operation Clearance | 914 | 36 | 914 | 36 | 914 | 36 | 1524 | 60 | 914 | 36 | |

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

¹ Service Clearance - Required for removal of serviceable parts.

Minimum Operation Clearance - Required clearance for proper unit operation.

| WEIGHT DATA | | | | | | | | UNIT |
|--------------|------|------|------|------|----------|------|------|------|
| Model Number | Net | | | | Shipping | | | |
| | Base | | Max. | | Base | | Max. | |
| | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. |
| ZCB036S | 215 | 474 | 247 | 544 | 217 | 479 | 249 | 549 |
| ZCB048S | 219 | 483 | 251 | 553 | 221 | 488 | 253 | 558 |
| ZCB060S | 258 | 568 | 290 | 640 | 260 | 573 | 293 | 645 |
| ZCB074S | 258 | 568 | 282 | 621 | 260 | 573 | 284 | 626 |

Base Unit - The unit with NO OPTIONS.

Max. Unit - The unit with ALL OPTIONS Installed. (Economizer, etc.)

| WEIGHT DATA | | OPTIONS / ACCESSORIES | |
|---|-----------|-----------------------|------|
| | | Shipping Weights | |
| | | kg | lbs. |
| ECONOMIZER | | | |
| Economizer | | | |
| Economizer, Includes Outdoor Air Hood and Barometric Relief Dampers with Hood | | Downflow | 34 |
| | | Horizontal | 46 |
| OUTDOOR AIR | | | |
| Outdoor Air Dampers | | | |
| Motorized | | | 18 |
| Manual | | | 13 |
| POWER EXHAUST | | | |
| Standard Static | | Downflow | 24 |
| | | Horizontal | 19 |
| | | | 54 |
| | | | 41 |
| ELECTRIC HEAT | | | |
| 3.8 kW | | | 11 |
| 5.7 kW | | | 12 |
| 7.7 kW | | | 12 |
| 11.5 kW | | | 12 |
| 17.2 kW | | | 13 |
| 23 kW | | | 14 |
| | | | 25 |
| | | | 26 |
| | | | 27 |
| | | | 27 |
| | | | 29 |
| | | | 30 |
| ROOF CURBS | | | |
| Hybrid Roof Curbs, Downflow | | | |
| 203 mm | | | 29 |
| 356 mm | | | 38 |
| 457 mm | | | 42 |
| 610 mm | | | 51 |
| | | | 63 |
| | | | 83 |
| | | | 93 |
| | | | 113 |
| CEILING DIFFUSERS | | | |
| Step-Down | RTD9-65S | | 36 |
| | RTD11-95S | | 54 |
| Flush | FD9-65S | | 36 |
| | FD11-95S | | 54 |
| | | | 80 |
| | | | 118 |
| | | | 80 |
| | | | 118 |

DIMENSIONS

UNIT

| Model No. | CORNER WEIGHTS | | | | | | | | | | | | CENTER OF GRAVITY | | | | | | | | | | | |
|-----------|----------------|------|------|------|------|------|------|------|------|------|------|------|-------------------|------|------|------|------|-------|------|-------|------|-------|------|------|
| | AA | | | | BB | | | | CC | | | | DD | | | | EE | | | | FF | | | |
| | Base | | Max. | | Base | | Max. | | Base | | Max. | | Base | | Max. | | Base | | Max. | | Base | | Max. | |
| | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | mm | in. | mm | in. | mm | in. | mm | in. |
| 036 | 53 | 117 | 61 | 134 | 51 | 112 | 59 | 129 | 54 | 120 | 63 | 138 | 57 | 125 | 65 | 143 | 984 | 38.75 | 933 | 36.75 | 578 | 22.75 | 622 | 24.5 |
| 048 | 54 | 119 | 62 | 136 | 52 | 115 | 59 | 131 | 55 | 122 | 64 | 140 | 58 | 127 | 66 | 145 | 984 | 38.75 | 933 | 36.75 | 578 | 22.75 | 622 | 24.5 |
| 060 | 71 | 156 | 80 | 176 | 64 | 140 | 72 | 158 | 59 | 129 | 66 | 145 | 65 | 143 | 73 | 161 | 1016 | 40 | 965 | 38 | 622 | 24.5 | 660 | 26 |
| 074 | 62 | 136 | 68 | 149 | 62 | 136 | 68 | 149 | 67 | 148 | 73 | 162 | 67 | 148 | 73 | 162 | 965 | 38 | 914 | 36 | 572 | 22.5 | 610 | 24 |

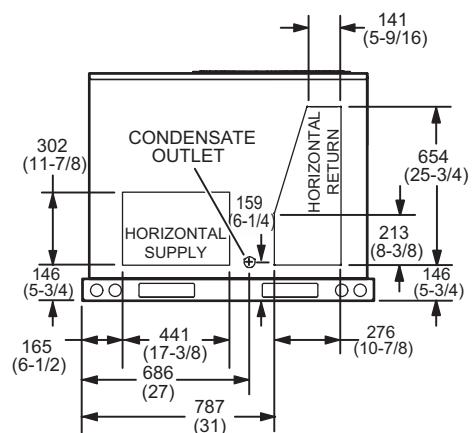
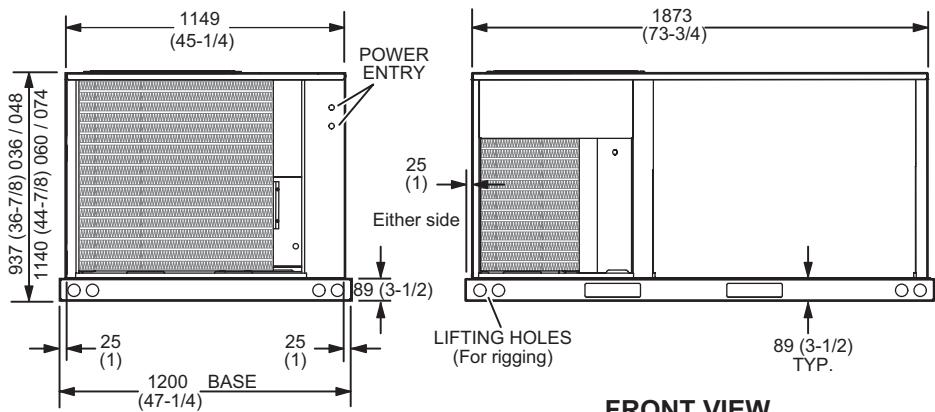
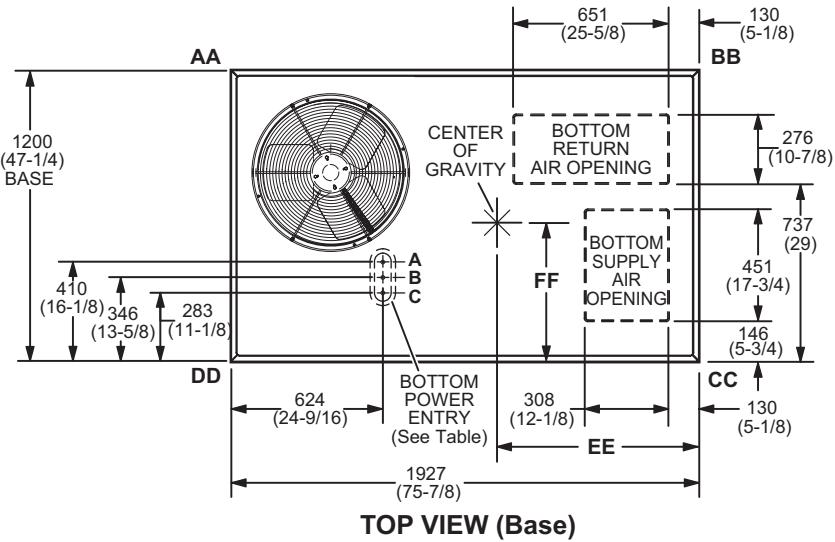
Base Unit - The unit with NO OPTIONS.

Max. Unit - The unit with ALL OPTIONS Installed. (Economizer, largest blower motor, etc.).

BOTTOM POWER ENTRY

Holes required for Optional Bottom Power Entry Kit

| | Threaded Conduit Fittings (Provided in Kit) | Wire Use | Hole Diameter Required in Unit Base (Max.) |
|---|---|----------|--|
| A | 1/2 | ACC | 23 (7/8) |
| B | 1/2 | 24V | 23 (7/8) |
| C | 3/4 | POWER | 29 (1-1/8) |

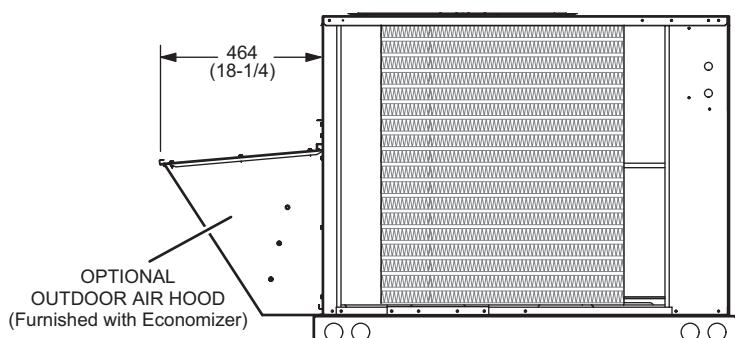


END VIEW

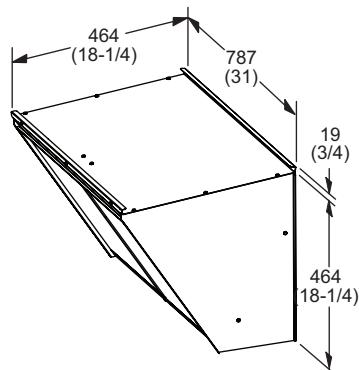
DIMENSIONS

ACCESSORIES

OUTDOOR AIR HOOD DETAIL FOR OPTIONAL ECONOMIZER (Downflow Applications)

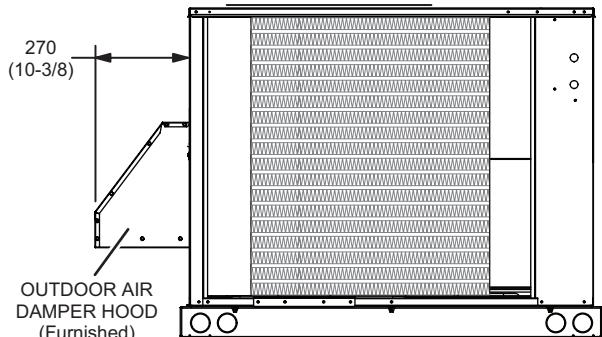


SIDE VIEW



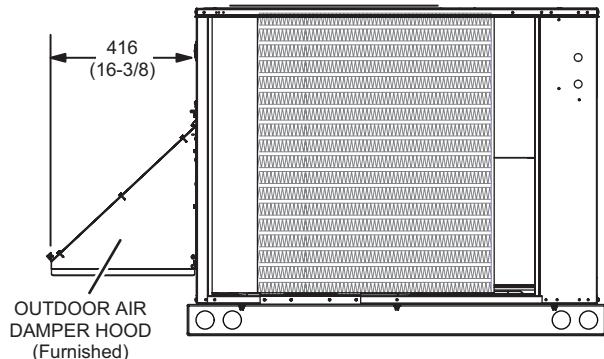
OUTDOOR AIR DAMPER HOOD DETAIL (Downflow or Horizontal Applications)

MANUAL OUTDOOR AIR HOOD

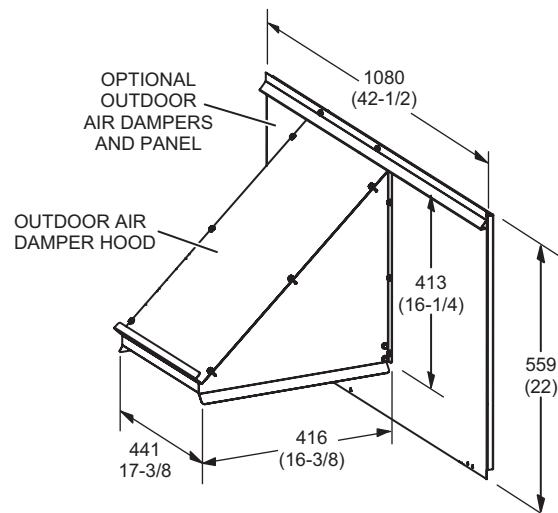
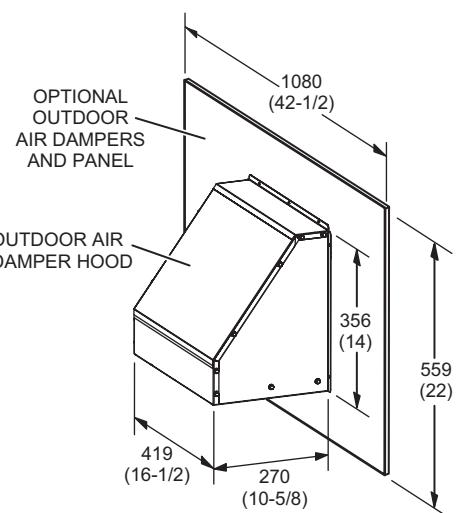


END VIEW

MOTORIZED OUTDOOR AIR HOOD



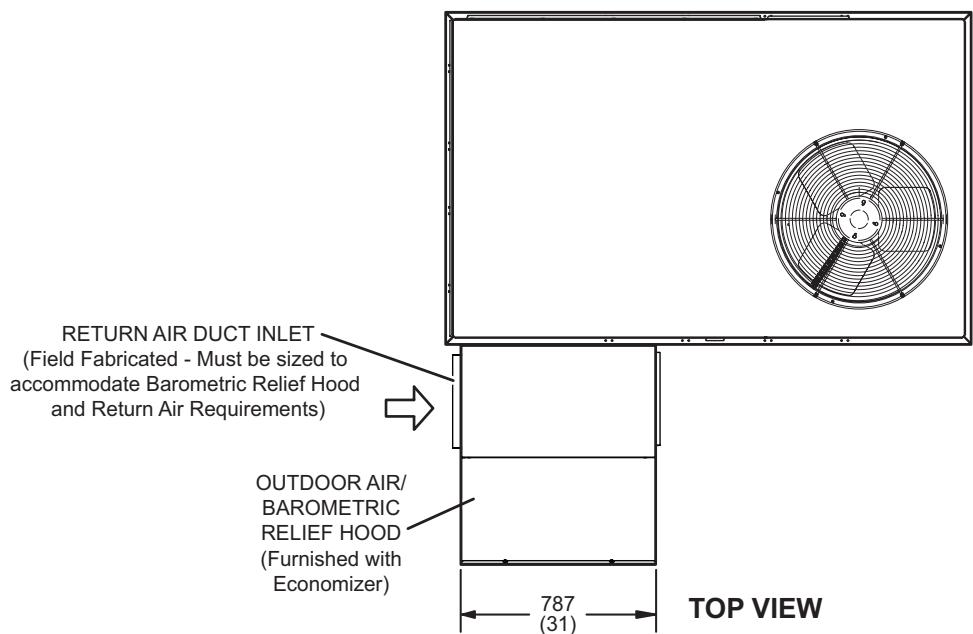
END VIEW



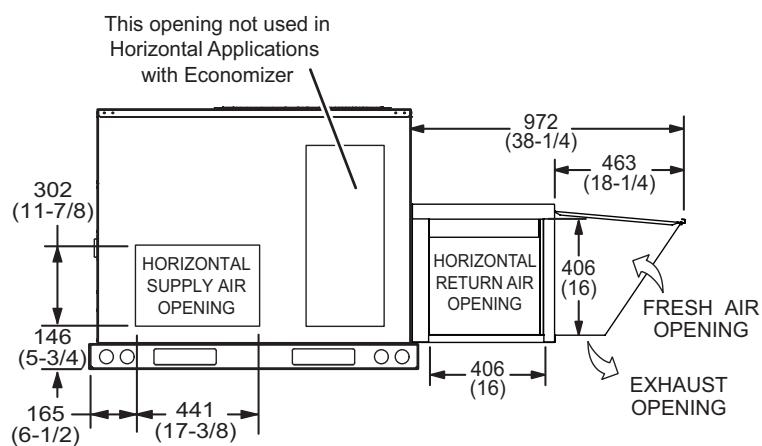
DIMENSIONS

ACCESSORIES

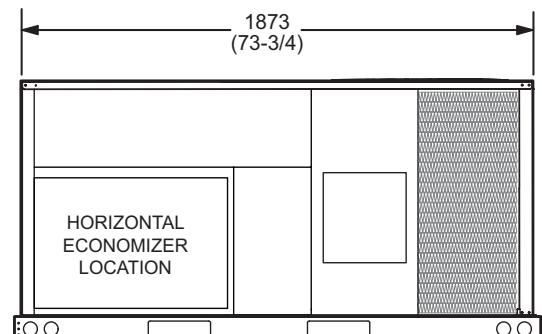
OUTDOOR AIR HOOD DETAIL WITH OPTIONAL ECONOMIZER AND BAROMETRIC RELIEF DAMPERS (Horizontal Applications)



TOP VIEW



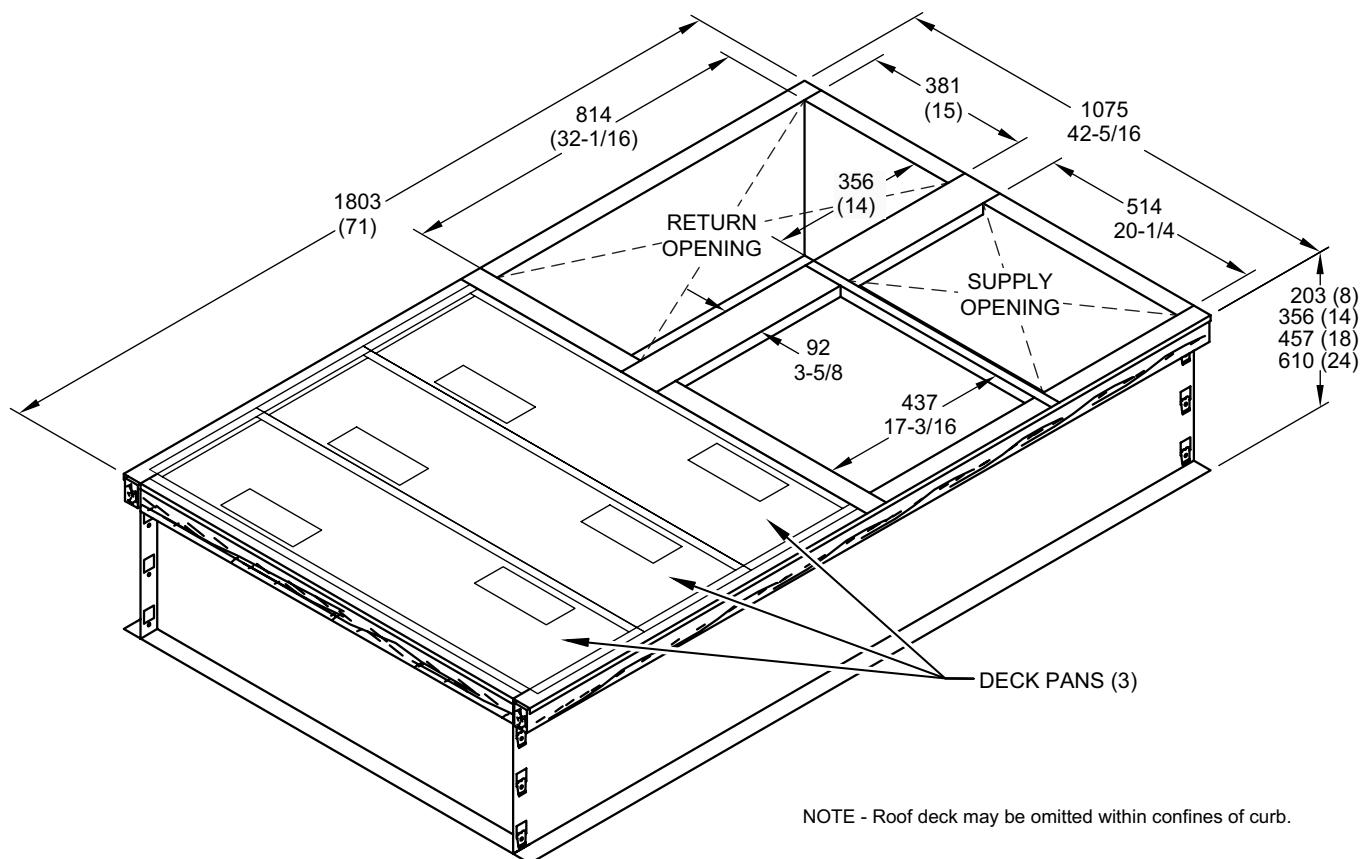
END VIEW



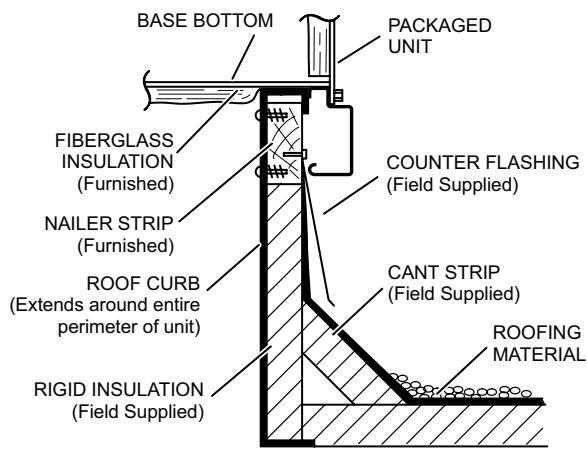
BACK VIEW

Note - Return Air Duct and Transition must be supported.

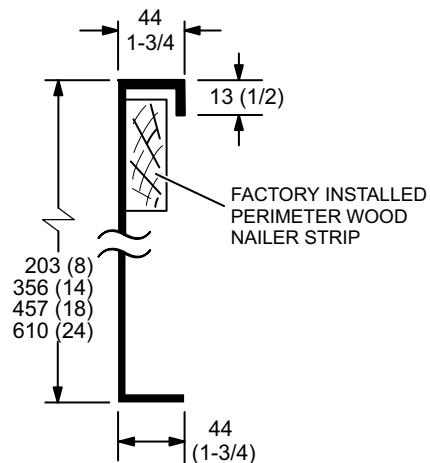
HYBRID ROOF CURBS - DOUBLE DUCT OPENING



TYPICAL FLASHING DETAIL FOR ROOF CURB



DETAIL ROOF CURB

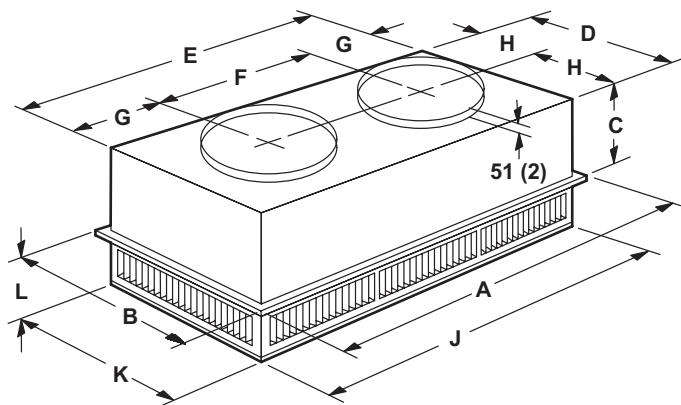


DIMENSIONS

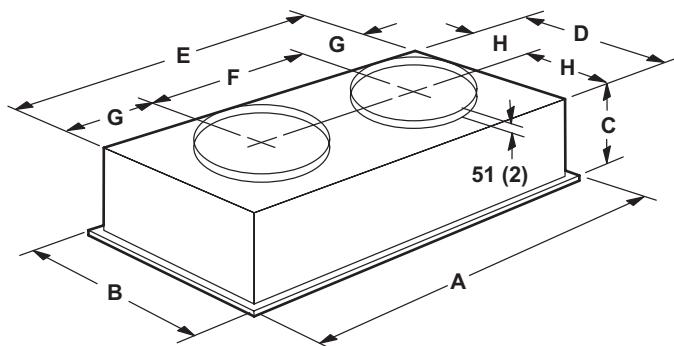
ACCESSORIES

COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER



FLUSH CEILING DIFFUSER



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

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

REVISIONS

| Sections | Description of Change |
|---------------------|--|
| Options/Accessories | Catalog numbers revised for: Single Enthalpy |



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