



**COMMERCIAL
PRODUCT SPECIFICATIONS**

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September 2021
Supersedes July 2021

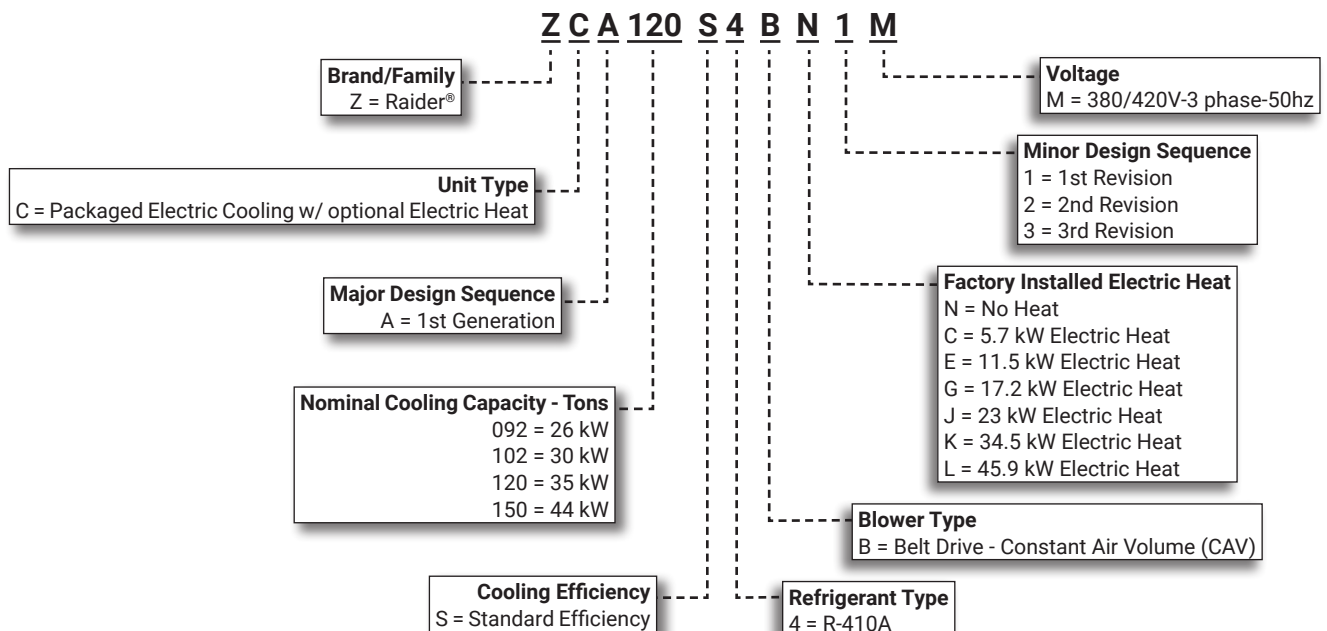


RAIDER®
Value Without Compromise®



26 to 44 kW (7.5 to 12.5 Tons)
Net Cooling Capacity - 22.5 to 34.5 kW (76 800 to 117 800 Btuh)
Optional Electric Heat - 5.7 to 45.9 kW

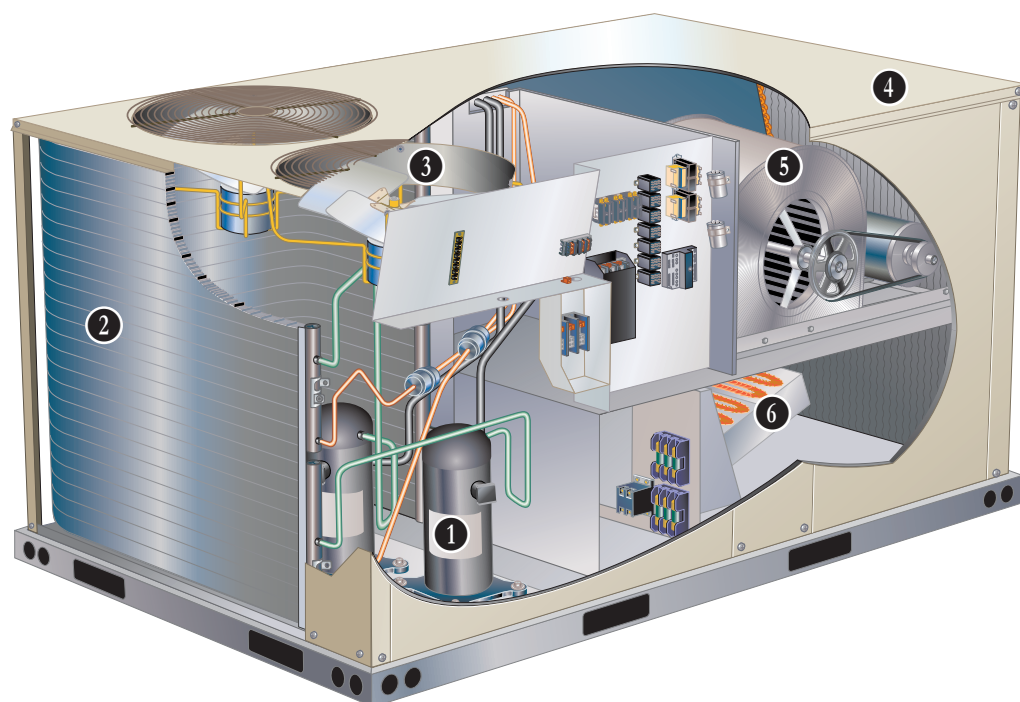
MODEL NUMBER IDENTIFICATION



FEATURE HIGHLIGHTS

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

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



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APPROVALS AND WARRANTY

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) Standard 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 4.4°C (10°C for 150 models) to 52°C without any additional controls

R-410A Refrigerant

- Non-chlorine based
- Ozone friendly

1 Scroll Compressors

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

Refrigerant Metering

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

Filter/Driers

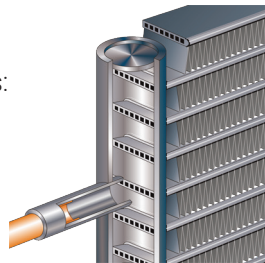
- High capacity filter/drier protects the system from dirt and moisture

High Pressure Switches

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

2 Condenser Coil - 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

Conventional Fin/Tube Condenser Coils (150S4B models only)

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

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 per ASHRAE 62.1
- Side drain connections

Outdoor Coil Fan Motors

- Thermal overload protected
- Totally enclosed
- Permanently lubricated ball bearings
- Shaft up
- Wire basket mount

3 Outdoor Coil Fans

- Polyvinyl Chloride (PVC) coated fan guard furnished

FEATURES AND BENEFITS

COOLING SYSTEM (continued)

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 (Includes Compressor Crankcase Heater)

- Cycles the outdoor fans while allowing compressor operation in the cooling cycle
- This 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
- Controls the compressor crankcase heaters

NOTE - Compressor crankcase heater is furnished with kit. Protects against refrigerant migration that can occur during low ambient operation.

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.

Duct Flanges

- Provided for horizontal duct attachment

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 with a two-layer enamel paint finish.

Insulation

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

Access Panels

- Filter section
- Blower/heating section
- Compressor/controls section
- Recessed handles for easy service access

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

FEATURES AND BENEFITS

BLOWER

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

Supply Air Blower

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

Required Selections

- Order blower motor horsepower and drive kit number required when base unit is ordered
- See Drive Kit Specifications Table

Constant Air Volume Blower (CAV)

- Supply air blower provides a constant volume of air

CONTROLS

Unit Control

- All control voltage is provided via a 24V (secondary) transformer with built-in circuit breaker protection
- **Heat/Cool Staging** - Capable of up to 2 heat / 2 cool staging with a third party DDC control system or thermostat
- **Low Voltage Terminal Block** - Provides screw terminal connections for thermostat or controller wiring
- **Night Setback Mode** - Saves energy by closing outdoor air dampers and operating supply fan on thermostat demand only

Options / Accessories

Commercial Control Systems

Thermostats

- Control system and thermostat options, see page 8

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

Options/Accessories

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.

Bottom Power Entry Kit

- Reduces the number of penetrations in the roof
- Includes bulkhead connectors to provide power and control wiring routing through the roof curb

INDOOR AIR QUALITY

Air Filters

- Disposable 51 mm filters furnished as standard

Options/Accessories

Field Installed

Replacement Filter Media Kit With Frame

- Replaces existing pleated filter media
- Includes washable metal mesh screen and metal frame with clip for holding replaceable non-pleated filter

Indoor Air Quality (CO₂) Sensors

- Monitors CO₂ levels
- Reports to the Unit Controller which adjusts economizer dampers as needed

OPTIONS / ACCESSORIES

ECONOMIZER

Factory or Field Installed

NOTE - Downflow Economizer is factory or field installed.
Horizontal Economizer is field installed only.

Economizer

(Standard and High Performance Common Features)

- Downflow or Horizontal models with Barometric Relief Dampers and 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

NOTE - Outdoor Air and Barometric Relief Exhaust Hoods are included when economizer is factory installed and are furnished when ordered for field installation.

- Occupied/Unoccupied mode with field furnished setback thermostat
- Demand Control Ventilation (DCV) ready using optional CO₂ sensors
- Single temperature control is furnished with Economizer
- Outdoor air temperature sensor enables Economizer if the outdoor temperature is less than the setpoint of the control

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

- Parallel 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 to 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



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

Differential Enthalpy Control

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

OPTIONS / ACCESSORIES

EXHAUST

Field Installed

Horizontal Low Profile Barometric Relief Dampers

- For use when unit is configured for horizontal applications in a reduced space requiring an Economizer
- Allows relief of excess air
- Aluminum blade dampers prevent blow back and outdoor air infiltration during off cycle
- Field installed in return air duct
- Exhaust hood with bird screen furnished

Power Exhaust Fan

- Installs internal to unit for downflow applications only
- 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 508 mm diameter with
- 5 blades (K1PWRE10B)
- 0.25 kW motor

NOTE - Requires Economizer with Outdoor Air Hood and Barometric Relief Dampers.

OUTDOOR AIR

Field Installed

Outdoor Air Damper

- Downflow or Horizontal With Air Hood
- Linked mechanical dampers
- 0 to 25% (fixed) outdoor air adjustable
- Installs in unit
- Includes outdoor air hood
- Automatic model features fully modulating spring return damper motor with plug-in connection
- Manual model features a slide damper

NOTE - Maximum mixed air temperature in cooling mode: 38°C.

ROOF CURBS

Hybrid Roof Curbs, Downflow

- Nail 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

CEILING DIFFUSERS

Ceiling Diffusers

- Flush or Step-Down
- White powder coat finish on diffuser face and grilles
- Insulated diffuser box with flanges
- 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.

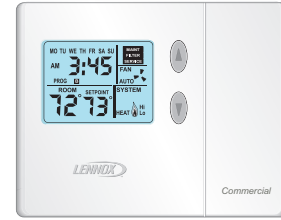
OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

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 | 47W36 |
| | ¹ Remote non-adjustable wall-mount 10k | 47W37 |
| | Remote non-adjustable discharge air (duct mount) | 19L22 |
| | Outdoor temperature sensor | 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 | 47W37 |
| BACnet Controls | 7-Day BACnet Thermostat | Y8241 |
| | BACnet Module (factory or field) | K0CTRL31B-2 |
| ² BACnet Room Sensors | With Display | K0SNSR01FF1 |
| | Without Display | K0SNSR00FF1 |

² Only compatible with BACnet Module (16X71).

- 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 Description | Model Number | Catalog Number | Unit Model No | | | |
|--|--|----------------|---------------|-----|-----|-----|
| | | | 092 | 102 | 120 | 150 |
| COOLING SYSTEM | | | | | | |
| Condensate Drain Trap | Polyvinyl Chloride (PVC) - C1TRAP20AD2 | 22H54 | X | X | X | X |
| | Copper - C1TRAP10AD2 | 76W27 | X | X | X | X |
| Corrosion Protection | | Factory | O | O | O | O |
| Drain Pan Overflow Switch | Z1SNSR90A1 | 99W59 | X | X | X | X |
| Low Ambient Kit (Includes Compressor Crankcase Heater) | 380/420V-3ph - Z1LOAM02B-1G | 10Z36 | X | X | | |
| | 380/420V-3ph - Z1LOAM12B-1G | 10Z51 | | | X | X |
| Refrigerant Type | | R-410A | O | O | O | O |
| BLOWER - SUPPLY AIR | | | | | | |
| Blower Motors | Belt Drive - 1.5 kW | Factory | O | O | O | O |
| | Belt Drive - 2.2 kW | Factory | O | O | O | O |
| | Belt Drive - 3.7 kW | Factory | O | O | O | O |
| Drive Kits | Kit #1 490-740 rev/min | Factory | O | O | O | O |
| See Blower Data Tables for selection | Kit #2 665-920 rev/min | Factory | O | O | O | O |
| | Kit #3 660-995 rev/min | Factory | O | O | O | O |
| | Kit #7 610-810 rev/min | Factory | O | O | O | O |
| | Kit #8 780-1000 rev/min | Factory | O | O | O | O |
| | Kit #9 845-1085 rev/min | Factory | O | O | O | O |
| | Kit #10 750-945 rev/min | Factory | O | O | O | O |
| | Kit #11 865-1095 rev/min | Factory | O | O | O | O |
| | Kit #12 940-1190 rev/min | Factory | O | O | O | O |
| | CABINET | | | | | |
| Combination Coil/Hail Guards | Z1GARD52B-1 | 12X21 | X | X | X | X |
| CONTROLS | | | | | | |
| See Conventional Thermostat Control Systems on page 8 for additional options | | | | | | |
| INDOOR AIR QUALITY | | | | | | |
| Air Filters | | | | | | |
| Replacement Media Filter With Metal Mesh Frame (includes non-pleated filter media) | C1FLTR30B-1- | Y3063 | X | X | X | X |
| Indoor Air Quality (CO₂) Sensors | | | | | | |
| Sensor - Wall-mount, off-white plastic cover with LCD display | C0SNSR50AE1L | 77N39 | X | X | X | X |
| Sensor - Wall-mount, off-white plastic cover, no display | C0SNSR52AE1L | 87N53 | X | X | X | X |
| Sensor - Black plastic case with LCD display, rated for plenum mounting | C0SNSR51AE1L | 87N52 | X | X | X | X |
| Sensor - Wall-mount, black plastic case, no display, rated for plenum mounting | C0MISC19AE1 | 87N54 | X | X | X | X |
| CO ₂ Sensor Duct Mounting Kit - for downflow applications | C0MISC19AE1- | 85L43 | X | X | X | X |
| Aspiration Box - for duct mounting non-plenum rated CO ₂ sensors (87N53 or 77N39) | C0MISC16AE1- | 90N43 | X | X | X | X |
| ELECTRICAL | | | | | | |
| Voltage 50 Hz with neutral | 380/420V - 3 phase | Factory | O | O | O | O |
| Bottom Power Entry Kit | Z1PEKT01B-1 | 11H66 | X | X | X | X |

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

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

O = Configure To Order (Factory Installed)

X = Field Installed

OPTIONS / ACCESSORIES

| Item Description | Model Number | Catalog Number | Unit Model No | | | |
|---|-----------------------------|----------------|---------------|-----|-----|-----|
| | | | 092 | 102 | 120 | 150 |
| ¹ ELECTRIC HEAT | | | | | | |
| 5.7 kW | 380/420V-3ph - Z1EH0075B-1G | 10Y98 | X | X | | |
| 11.5 kW | 380/420V-3ph - Z1EH0150B-1G | 10Z03 | X | X | X | X |
| 17.2 kW | 380/420V-3ph - Z1EH0225B-1G | 10Z06 | X | X | X | X |
| 23 kW | 380/420V-3ph - Z1EH0300B-1G | 10Z09 | X | X | X | X |
| 34.5 kW | 380/420V-3ph - Z1EH0450B-1G | 10Z12 | X | X | X | X |
| 45.9 kW | 380/420V-3ph - Z1EH0600B-1G | 10Z15 | | | X | X |
| ELECTRIC HEAT ACCESSORIES | | | | | | |
| Unit Fuse Block (required) - See Electrical/Electric Heat Tables for Selection | | | X | X | X | X |
| ¹ Nominal kW at 420V-3ph-50hz. | | | | | | |
| ECONOMIZER | | | | | | |
| Standard Economizer | | | | | | |
| Standard Downflow Economizer with Single Temperature Control - With Barometric Relief Dampers and Air Hoods | Z1ECON30B-1 | 10Z29 | OX | OX | OX | OX |
| Standard Horizontal Economizer with Single Temperature Control - With Barometric Relief Dampers and Air Hoods | Z1ECON16B-1 | 11G98 | X | X | X | X |
| Standard Economizer Controls | | | | | | |
| Single Enthalpy Control | C1SNSR64FF1 | 21Z09 | X | X | X | X |
| Differential Enthalpy Control (order 2) | C1SNSR64FF1 | 21Z09 | X | X | X | X |
| High Performance Economizer | | | | | | |
| High Performance Downflow Economizer with Single Temperature Control - With Barometric Relief Dampers and Air Hoods | Z1ECON32B-3 | 20V25 | OX | OX | OX | OX |
| High Horizontal Economizer with Single Temperature Control - With Barometric Relief Dampers and Air Hoods | Z1ECON33B-3 | 20V26 | X | X | X | X |
| High Performance Economizer Controls | | | | | | |
| Single Enthalpy Control | C1SNSR61FF1 | 11G21 | X | X | X | X |
| Differential Enthalpy Control (order 2) | C1SNSR61FF1 | 11G21 | X | X | X | X |
| Horizontal Low Profile Barometric Relief Dampers With Exhaust Hood | | | | | | |
| Horizontal Low Profile Barometric Relief Dampers With Exhaust Hood | LAGEDH03/15 | 53K04 | X | X | X | X |
| OUTDOOR AIR | | | | | | |
| Outdoor Air Dampers | | | | | | |
| Motorized Dampers with outdoor air hood | Z1DAMP20B-2 | 14G36 | X | X | X | X |
| Manual Dampers with outdoor air hood | Z1DAMP10B-2 | 14G37 | X | X | X | X |
| POWER EXHAUST | | | | | | |
| Standard Static (Downflow) | 380/420V-3ph - Z1PWRE10B-1G | 10Z71 | X | X | X | X |
| Standard Static (Horizontal) | 380/420V-3ph - Z1PWRE15A-1G | 28E01 | X | X | X | X |

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

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

O = Configure To Order (Factory Installed)

X = Field Installed

OPTIONS / ACCESSORIES

| Item Description | Model Number | Catalog Number | Unit Model No | | | |
|------------------------------------|--------------|----------------|---------------|-----|-----|-----|
| | | | 092 | 102 | 120 | 150 |
| ROOF CURBS | | | | | | |
| Hybrid Roof Curbs, Downflow | | | | | | |
| 203 mm height | Z1CURB40B-1 | 10Z25 | X | X | X | X |
| 356 mm height | Z1CURB41B-1 | 10Z26 | X | X | X | X |
| 457 mm height | Z1CURB42B-1 | 10Z27 | X | X | X | X |
| 610 mm height | Z1CURB43B-1 | 10Z28 | X | X | X | X |
| CEILING DIFFUSERS | | | | | | |
| Step-Down - Order one | RTD11-95S | 13K61 | X | | | |
| | RTD11-135S | 13K62 | | X | X | |
| | RTD11-185S | 13K63 | | | | X |
| Flush - Order one | FD11-95S | 13K56 | X | | | |
| | FD11-135S | 13K57 | | X | X | |
| | FD11-185S | 13K58 | | | | X |

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

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

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

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SPECIFICATIONS

| General Data | | Nominal kW (Tonnage) | 26 (7.5) | 30 (8.5) | 35 (10) | 44 (12.5) |
|--|--|---|--|---------------------------|-------------------------------------|---------------------------|
| | Model Number | | ZCA092S4B | ZCA102S4B | ZCA120S4B | ZCA150S4B |
| | Efficiency Type | | Standard | Standard | Standard | Standard |
| | Blower Type | | Constant Air Volume (CAV) | Constant Air Volume (CAV) | Constant Air Volume (CAV) | Constant Air Volume (CAV) |
| Cooling Performance | Gross Cooling Capacity - kW (Btuh) | | 23.2 (79 000) | 25.9 (88 300) | 30.3 (103 500) | 36.0 (122 900) |
| | ¹ Net Cooling Capacity - kW (Btuh) | | 22.5 (76 800) | 25.1 (85 700) | 29.3 (100 000) | 34.5 (117 800) |
| | AHRI Rated Air Flow - L/s (cfm) | | 1320 (2800) | 1535 (3250) | 1795 (3800) | 2075 (4400) |
| | Total Unit Power - kW | | 6.7 | 7.5 | 8.8 | 10.7 |
| | ¹ EER (Btuh/Watt) | | 11.5 | 11.4 | 11.3 | 11.0 |
| | ¹ IEER (Btuh/Watt) | | 11.4 | 11.4 | 11.4 | 11.0 |
| | Refrigerant Type | | R-410A | R-410A | R-410A | R-410A |
| | Refrigerant Charge Furnished | Circuit 1 | 2.0 kg (4 lbs. 7 oz.) | 2.2 kg (4 lbs. 13 oz.) | 2.3 kg (5 lbs 0 oz.) | 3.2 kg (7 lbs 0 oz.) |
| | Circuit 2 | 1.4 kg (3 lbs. 1 oz.) | 2.1 kg (4 lbs. 10 oz.) | 2.4 kg (5 lbs 4 oz.) | 3.1 kg (6 lbs 12 oz.) | |
| Electric Heat Available - See page 10 | | | 5.7, 11.5, 17.2, 23, & 34.5 kW | | 5.7, 11.5, 17.2, 23, 34.5 & 45.9 kW | |
| Compressor Type (number) | | | Scroll (2) | | Scroll (2) | |
| Outdoor Coils | Net face area (total) - m ² (sq. ft.) | | 1.94 (20.9) | 1.94 (20.9) | 2.6 (28.0) | 2.6 (28.0) |
| | Number of rows | | 1 | 1 | 1 | 1 |
| | Fins per m (in.) | | 906 (23) | 906 (23) | 906 (23) | 787 (20) |
| Outdoor Coil Fans | Motor - (No.) W (hp) | | (2) 249 (1/3) | (2) 249 (1/3) | (2) 249 (1/3) | (2) 373 (1/2) |
| | Motor rev/min | | 896 | 896 | 896 | 896 |
| | Total Motor watts | | 617 | 617 | 583 | 792 |
| | Diameter - (No.) m (in.) | | (2) 610 (24) | (2) 610 (24) | (2) 610 (24) | (2) 610 (24) |
| | Number of blades | | 3 | 3 | 3 | 3 |
| | Total Air volume - L/s (cfm) | | 3460 (7333) | 3460 (7333) | 3540 (7500) | 3775 (8000) |
| Indoor Coils | Net face area (total) - m ² (sq. ft.) | | 1.19 (12.8) | 1.19 (12.8) | 1.26 (13.54) | 1.26 (13.54) |
| | Tube diameter - mm (in.) | | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) |
| | Number of rows | | 2 | 3 | 3 | 4 |
| | Fins per m (in.) | | 551 (14) | 551 (14) | 551 (14) | 551 (14) |
| | Drain connection - Number and size | (1) 1 in. NPT coupling | | | | |
| | Expansion device type | Refrigerant Metering Orifice (RFC) | | | | |
| ² Indoor Blower and Drive Selection | Nominal motor output | 1.5 kW, 2.2 kW, 3.7 kW (2 hp, 3 hp, 5 hp) | | | | |
| | Maximum usable motor output | 1.7 kW, 2.6 kW, 4.3 kW (2.3 hp, 3.45 hp, 5.75 hp) | | | | |
| | Motor - Drive kit number | 1.5 kW (2 hp) Kit 1 490-740 rev/min Kit 2 665-920 rev/min Kit 3 660-995 rev/min 2.2 kW (3 hp) Kit 7 610-810 rev/min Kit 8 780-1000 rev/min Kit 9 845-1085 rev/min 3.7 kW (5 hp) Kit 10 750-945 rev/min Kit 11 865-1095 rev/min Kit 12 940-1190 rev/min | | | | |
| | Blower wheel nominal diameter x width - mm (in.) | (1) 381 x 381 (15 X 15) | | | | |
| Filters | Type of filter | Disposable | | | | |
| | Number and size - mm (in.) | (4) 508 x 610 x 51 (20 x 24 x 2) | | | | |
| Electrical characteristics | | | 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 340/360; 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 Using total air volume and system static pressure requirements determine from blower performance tables rev/min and motor output required. Maximum usable output of motors furnished are shown. If motors of comparable output are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

RATINGS

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

26 KW STANDARD EFFICIENCY ZCA092S4B (1ST STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 18.3°C | | | | | 23.9°C | | | | | 29.4°C | | | | | 35°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1133 | 16.6 | 2.27 | 0.68 | 0.81 | 0.95 | 15.9 | 2.53 | 0.69 | 0.83 | 0.97 | 15.1 | 2.83 | 0.70 | 0.84 | 0.99 | 14.2 | 3.19 | 0.71 | 0.87 | 1.00 |
| | 1416 | 17.5 | 2.29 | 0.72 | 0.87 | 1.00 | 16.7 | 2.55 | 0.73 | 0.89 | 1.00 | 15.9 | 2.85 | 0.74 | 0.91 | 1.00 | 14.9 | 3.21 | 0.76 | 0.94 | 1.00 |
| | 1699 | 18.2 | 2.30 | 0.76 | 0.93 | 1.00 | 17.4 | 2.56 | 0.77 | 0.95 | 1.00 | 16.5 | 2.86 | 0.78 | 0.98 | 1.00 | 15.5 | 3.22 | 0.80 | 1.00 | 1.00 |
| 19.4°C | 1133 | 17.4 | 2.28 | 0.55 | 0.66 | 0.78 | 16.6 | 2.55 | 0.55 | 0.67 | 0.79 | 15.8 | 2.85 | 0.55 | 0.68 | 0.81 | 14.9 | 3.20 | 0.56 | 0.69 | 0.83 |
| | 1416 | 18.4 | 2.30 | 0.57 | 0.70 | 0.84 | 17.5 | 2.56 | 0.57 | 0.71 | 0.86 | 16.6 | 2.87 | 0.58 | 0.72 | 0.88 | 15.6 | 3.22 | 0.58 | 0.73 | 0.90 |
| | 1699 | 19.0 | 2.32 | 0.59 | 0.74 | 0.90 | 18.1 | 2.58 | 0.59 | 0.75 | 0.92 | 17.1 | 2.88 | 0.60 | 0.76 | 0.94 | 16.1 | 3.23 | 0.61 | 0.78 | 0.97 |
| 21.7°C | 1133 | 18.2 | 2.30 | 0.42 | 0.53 | 0.64 | 17.4 | 2.56 | 0.42 | 0.54 | 0.65 | 16.5 | 2.86 | 0.42 | 0.54 | 0.66 | 15.6 | 3.22 | 0.42 | 0.55 | 0.67 |
| | 1416 | 19.2 | 2.32 | 0.43 | 0.56 | 0.68 | 18.3 | 2.58 | 0.43 | 0.56 | 0.69 | 17.3 | 2.88 | 0.42 | 0.57 | 0.70 | 16.3 | 3.23 | 0.42 | 0.57 | 0.72 |
| | 1699 | 19.9 | 2.34 | 0.45 | 0.58 | 0.71 | 19.0 | 2.59 | 0.44 | 0.59 | 0.73 | 17.9 | 2.89 | 0.45 | 0.59 | 0.74 | 16.8 | 3.25 | 0.45 | 0.60 | 0.76 |

26 KW STANDARD EFFICIENCY ZCA092S4B (2ND STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 26.7°C | | | | | 35°C | | | | | 43.3°C | | | | | 51.7°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1133 | 23.0 | 4.47 | 0.71 | 0.86 | 0.99 | 20.8 | 5.36 | 0.73 | 0.90 | 1.00 | 18.4 | 6.46 | 0.76 | 0.95 | 1.00 | 15.9 | 7.84 | 0.81 | 1.00 | 1.00 |
| | 1416 | 24.2 | 4.50 | 0.76 | 0.94 | 1.00 | 21.9 | 5.39 | 0.79 | 0.98 | 1.00 | 19.5 | 6.50 | 0.83 | 1.00 | 1.00 | 17.0 | 7.88 | 0.90 | 1.00 | 1.00 |
| | 1699 | 25.1 | 4.51 | 0.81 | 0.99 | 1.00 | 22.8 | 5.41 | 0.85 | 1.00 | 1.00 | 20.5 | 6.53 | 0.91 | 1.00 | 1.00 | 17.8 | 7.92 | 0.97 | 1.00 | 1.00 |
| 19.4°C | 1133 | 24.3 | 4.50 | 0.56 | 0.69 | 0.82 | 22.0 | 5.39 | 0.57 | 0.71 | 0.86 | 19.6 | 6.50 | 0.57 | 0.74 | 0.91 | 16.8 | 7.88 | 0.59 | 0.78 | 0.98 |
| | 1416 | 25.6 | 4.52 | 0.59 | 0.74 | 0.90 | 23.2 | 5.42 | 0.60 | 0.76 | 0.95 | 20.5 | 6.53 | 0.62 | 0.81 | 0.99 | 17.5 | 7.91 | 0.64 | 0.88 | 1.00 |
| | 1699 | 26.5 | 4.54 | 0.62 | 0.79 | 0.97 | 24.0 | 5.44 | 0.63 | 0.82 | 1.00 | 21.1 | 6.55 | 0.65 | 0.88 | 1.00 | 18.0 | 7.94 | 0.69 | 0.96 | 1.00 |
| 21.7°C | 1133 | 25.5 | 4.52 | 0.42 | 0.55 | 0.67 | 23.2 | 5.42 | 0.41 | 0.56 | 0.69 | 20.7 | 6.54 | 0.40 | 0.57 | 0.71 | 17.8 | 7.92 | 0.40 | 0.59 | 0.76 |
| | 1416 | 26.8 | 4.54 | 0.43 | 0.58 | 0.72 | 24.4 | 5.45 | 0.43 | 0.59 | 0.74 | 21.7 | 6.57 | 0.43 | 0.61 | 0.78 | 18.6 | 7.96 | 0.43 | 0.64 | 0.85 |
| | 1699 | 27.8 | 4.56 | 0.44 | 0.61 | 0.76 | 25.3 | 5.47 | 0.44 | 0.63 | 0.80 | 22.4 | 6.60 | 0.45 | 0.65 | 0.86 | 19.2 | 7.99 | 0.46 | 0.69 | 0.94 |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 48°C | | | | | 50°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1135 | 17.0 | 7.19 | 0.78 | 0.98 | 1.00 | 16.4 | 7.53 | 0.80 | 0.99 | 1.00 |
| | 1415 | 18.1 | 7.23 | 0.87 | 1.00 | 1.00 | 17.5 | 7.58 | 0.88 | 1.00 | 1.00 |
| | 1700 | 19.0 | 7.27 | 0.94 | 1.00 | 1.00 | 18.3 | 7.61 | 0.96 | 1.00 | 1.00 |
| 19.4°C | 1135 | 18.1 | 7.23 | 0.58 | 0.76 | 0.95 | 17.4 | 7.58 | 0.59 | 0.77 | 0.97 |
| | 1415 | 18.9 | 7.26 | 0.63 | 0.84 | 1.00 | 18.1 | 7.60 | 0.64 | 0.86 | 1.00 |
| | 1700 | 19.4 | 7.29 | 0.67 | 0.92 | 1.00 | 18.7 | 7.63 | 0.68 | 0.94 | 1.00 |
| 21.7°C | 1135 | 19.1 | 7.27 | 0.40 | 0.58 | 0.74 | 18.4 | 7.61 | 0.40 | 0.58 | 0.75 |
| | 1415 | 20.0 | 7.31 | 0.43 | 0.62 | 0.82 | 19.3 | 7.65 | 0.43 | 0.63 | 0.83 |
| | 1700 | 20.6 | 7.33 | 0.45 | 0.67 | 0.90 | 19.8 | 7.68 | 0.45 | 0.68 | 0.92 |

RATINGS

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

30 KW STANDARD EFFICIENCY ZCA102S4B (1ST STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|--|--|--|
| | | 18.3°C | | | | | | 23.9°C | | | | | | 29.4°C | | | | | | 35°C | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | | |
| 17.2°C | 1284 | 17.3 | 2.23 | 0.70 | 0.84 | 0.96 | 16.6 | 2.56 | 0.71 | 0.86 | 0.97 | 15.8 | 2.90 | 0.72 | 0.87 | 0.97 | 15.0 | 3.29 | 0.73 | 0.89 | 0.97 | | | | |
| | 1605 | 18.1 | 2.25 | 0.73 | 0.90 | 0.96 | 17.3 | 2.57 | 0.74 | 0.91 | 0.96 | 16.5 | 2.92 | 0.76 | 0.93 | 0.96 | 15.7 | 3.31 | 0.76 | 0.95 | 0.96 | | | | |
| | 1926 | 18.6 | 2.25 | 0.76 | 0.94 | 0.96 | 17.9 | 2.58 | 0.77 | 0.95 | 0.96 | 17.1 | 2.93 | 0.79 | 0.95 | 0.96 | 16.2 | 3.32 | 0.80 | 0.94 | 0.95 | | | | |
| 19.4°C | 1284 | 18.1 | 2.25 | 0.54 | 0.67 | 0.80 | 17.3 | 2.57 | 0.54 | 0.68 | 0.82 | 16.6 | 2.92 | 0.54 | 0.69 | 0.83 | 15.8 | 3.31 | 0.55 | 0.71 | 0.85 | | | | |
| | 1605 | 19.0 | 2.26 | 0.55 | 0.71 | 0.86 | 18.1 | 2.58 | 0.56 | 0.72 | 0.88 | 17.3 | 2.93 | 0.56 | 0.73 | 0.89 | 16.3 | 3.32 | 0.57 | 0.74 | 0.91 | | | | |
| | 1926 | 19.5 | 2.26 | 0.56 | 0.74 | 0.91 | 18.6 | 2.59 | 0.57 | 0.75 | 0.92 | 17.7 | 2.94 | 0.57 | 0.76 | 0.94 | 16.7 | 3.33 | 0.58 | 0.78 | 0.94 | | | | |
| 21.7°C | 1284 | 18.8 | 2.25 | 0.38 | 0.52 | 0.64 | 18.1 | 2.58 | 0.39 | 0.53 | 0.65 | 17.2 | 2.93 | 0.38 | 0.53 | 0.66 | 16.4 | 3.32 | 0.39 | 0.53 | 0.68 | | | | |
| | 1605 | 19.6 | 2.26 | 0.39 | 0.53 | 0.68 | 18.8 | 2.59 | 0.39 | 0.54 | 0.69 | 17.8 | 2.94 | 0.38 | 0.55 | 0.7 | 16.9 | 3.33 | 0.39 | 0.55 | 0.72 | | | | |
| | 1926 | 20.1 | 2.27 | 0.38 | 0.55 | 0.71 | 19.2 | 2.59 | 0.38 | 0.55 | 0.72 | 18.2 | 2.95 | 0.38 | 0.56 | 0.74 | 17.2 | 3.33 | 0.37 | 0.57 | 0.75 | | | | |

30 KW STANDARD EFFICIENCY ZCA102S4B (2ND STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|--------|------|--|--|--|--|
| | | 26.7°C | | | | | | 35°C | | | | | | 43.3°C | | | | | | 51.7°C | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | | |
| 17.2°C | 1284 | 25.4 | 5.08 | 0.78 | 0.91 | 0.98 | 23.4 | 6.11 | 0.80 | 0.94 | 0.99 | 21.3 | 7.33 | 0.84 | 0.97 | 0.98 | 18.9 | 8.82 | 0.88 | 0.98 | 0.98 | | | | |
| | 1605 | 26.6 | 5.11 | 0.83 | 0.96 | 0.98 | 24.6 | 6.15 | 0.86 | 0.97 | 0.98 | 22.5 | 7.38 | 0.89 | 0.98 | 0.98 | 20.0 | 8.87 | 0.94 | 0.98 | 0.98 | | | | |
| | 1926 | 27.7 | 5.14 | 0.87 | 0.98 | 0.98 | 25.7 | 6.18 | 0.90 | 0.98 | 0.98 | 23.5 | 7.42 | 0.94 | 0.97 | 0.98 | 20.9 | 8.90 | 0.96 | 0.97 | 0.98 | | | | |
| 19.4°C | 1284 | 26.9 | 5.12 | 0.60 | 0.75 | 0.88 | 24.8 | 6.16 | 0.62 | 0.78 | 0.91 | 22.5 | 7.38 | 0.64 | 0.81 | 0.94 | 19.8 | 8.86 | 0.67 | 0.86 | 0.97 | | | | |
| | 1605 | 28.2 | 5.15 | 0.63 | 0.80 | 0.94 | 25.9 | 6.19 | 0.65 | 0.84 | 0.96 | 23.4 | 7.41 | 0.67 | 0.87 | 0.97 | 20.4 | 8.89 | 0.71 | 0.92 | 0.97 | | | | |
| | 1926 | 29.0 | 5.17 | 0.66 | 0.85 | 0.97 | 26.6 | 6.21 | 0.68 | 0.88 | 0.97 | 23.9 | 7.43 | 0.71 | 0.92 | 0.97 | 21.0 | 8.91 | 0.76 | 0.96 | 0.97 | | | | |
| 21.7°C | 1284 | 28.4 | 5.16 | 0.44 | 0.58 | 0.72 | 26.2 | 6.20 | 0.44 | 0.60 | 0.75 | 23.8 | 7.43 | 0.45 | 0.62 | 0.78 | 21.0 | 8.91 | 0.46 | 0.65 | 0.84 | | | | |
| | 1605 | 29.7 | 5.18 | 0.45 | 0.61 | 0.77 | 27.4 | 6.23 | 0.45 | 0.63 | 0.81 | 24.7 | 7.46 | 0.46 | 0.66 | 0.85 | 21.7 | 8.94 | 0.47 | 0.70 | 0.90 | | | | |
| | 1926 | 30.7 | 5.20 | 0.45 | 0.65 | 0.83 | 28.2 | 6.26 | 0.46 | 0.67 | 0.86 | 25.4 | 7.48 | 0.47 | 0.7 | 0.9 | 22.2 | 8.95 | 0.49 | 0.74 | 0.95 | | | | |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 48°C | | | | | 50°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1285 | 20.0 | 8.12 | 0.86 | 0.98 | 0.98 | 19.4 | 8.49 | 0.87 | 0.98 | 0.98 |
| | 1605 | 21.2 | 8.17 | 0.92 | 0.98 | 0.98 | 20.6 | 8.53 | 0.93 | 0.98 | 0.98 |
| | 1925 | 22.2 | 8.21 | 0.96 | 0.97 | 0.98 | 21.5 | 8.57 | 0.96 | 0.97 | 0.98 |
| 19.4°C | 1285 | 21.1 | 8.17 | 0.65 | 0.84 | 0.97 | 20.3 | 8.53 | 0.66 | 0.85 | 0.97 |
| | 1605 | 21.8 | 8.19 | 0.69 | 0.90 | 0.97 | 21.0 | 8.56 | 0.70 | 0.91 | 0.97 |
| | 1925 | 22.4 | 8.22 | 0.73 | 0.94 | 0.97 | 21.6 | 8.58 | 0.74 | 0.95 | 0.97 |
| 21.7°C | 1285 | 22.3 | 8.21 | 0.45 | 0.63 | 0.81 | 21.6 | 8.58 | 0.45 | 0.64 | 0.82 |
| | 1605 | 23.1 | 8.24 | 0.47 | 0.68 | 0.87 | 22.3 | 8.61 | 0.47 | 0.69 | 0.89 |
| | 1925 | 23.7 | 8.26 | 0.48 | 0.72 | 0.92 | 22.9 | 8.63 | 0.48 | 0.73 | 0.94 |

RATINGS

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

35 KW STANDARD EFFICIENCY ZCA120S4B (1ST STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 18.3°C | | | | | 23.9°C | | | | | 29.4°C | | | | | 35°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1510 | 16.1 | 2.32 | 0.69 | 0.85 | 1.00 | 15.0 | 2.63 | 0.69 | 0.86 | 1.00 | 13.7 | 2.98 | 0.70 | 0.88 | 1.00 | 12.4 | 3.37 | 0.71 | 0.91 | 1.00 |
| | 1888 | 17.1 | 2.32 | 0.75 | 0.93 | 1.00 | 15.9 | 2.64 | 0.75 | 0.96 | 1.00 | 14.6 | 3.00 | 0.76 | 0.98 | 1.00 | 13.3 | 3.39 | 0.78 | 1.00 | 1.00 |
| | 2265 | 17.9 | 2.33 | 0.80 | 1.00 | 1.00 | 16.7 | 2.65 | 0.81 | 1.00 | 1.00 | 15.4 | 3.01 | 0.83 | 1.00 | 1.00 | 14.2 | 3.41 | 0.86 | 1.00 | 1.00 |
| 19.4°C | 1510 | 17.3 | 2.32 | 0.55 | 0.67 | 0.81 | 16.1 | 2.64 | 0.54 | 0.67 | 0.82 | 14.8 | 3.00 | 0.53 | 0.68 | 0.84 | 13.5 | 3.40 | 0.52 | 0.69 | 0.87 |
| | 1888 | 18.3 | 2.34 | 0.57 | 0.72 | 0.90 | 17.0 | 2.65 | 0.57 | 0.74 | 0.92 | 15.6 | 3.02 | 0.57 | 0.74 | 0.94 | 14.3 | 3.41 | 0.57 | 0.76 | 0.98 |
| | 2265 | 19.0 | 2.34 | 0.61 | 0.78 | 0.97 | 17.6 | 2.66 | 0.61 | 0.79 | 0.99 | 16.3 | 3.03 | 0.6 | 0.81 | 1.00 | 14.8 | 3.43 | 0.61 | 0.83 | 1.00 |
| 21.7°C | 1510 | 18.6 | 2.34 | 0.41 | 0.54 | 0.65 | 17.3 | 2.66 | 0.4 | 0.53 | 0.66 | 15.9 | 3.02 | 0.38 | 0.52 | 0.66 | 14.6 | 3.42 | 0.36 | 0.52 | 0.67 |
| | 1888 | 19.5 | 2.35 | 0.42 | 0.57 | 0.70 | 18.1 | 2.67 | 0.42 | 0.57 | 0.72 | 16.8 | 3.04 | 0.4 | 0.57 | 0.73 | 15.3 | 3.44 | 0.39 | 0.57 | 0.74 |
| | 2265 | 20.2 | 2.35 | 0.45 | 0.61 | 0.76 | 18.8 | 2.68 | 0.44 | 0.61 | 0.77 | 17.3 | 3.05 | 0.42 | 0.6 | 0.79 | 15.8 | 3.45 | 0.4 | 0.61 | 0.81 |

35 KW STANDARD EFFICIENCY ZCA120S4B (2ND STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 26.7°C | | | | | 35°C | | | | | 43.3°C | | | | | 51.7°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1510 | 30.4 | 5.70 | 0.71 | 0.88 | 1.00 | 26.5 | 6.86 | 0.72 | 0.92 | 1.00 | 22.2 | 8.23 | 0.74 | 0.98 | 1.00 | 17.9 | 9.90 | 0.78 | 1.00 | 1.00 |
| | 1888 | 32.3 | 5.72 | 0.78 | 0.98 | 1.00 | 28.3 | 6.90 | 0.80 | 1.00 | 1.00 | 24.2 | 8.29 | 0.84 | 1.00 | 1.00 | 19.9 | 9.97 | 0.91 | 1.00 | 1.00 |
| | 2265 | 34.1 | 5.75 | 0.84 | 1.00 | 1.00 | 30.1 | 6.94 | 0.88 | 1.00 | 1.00 | 25.9 | 8.34 | 0.93 | 1.00 | 1.00 | 21.3 | 10.03 | 1.00 | 1.00 | 1.00 |
| 19.4°C | 1510 | 32.9 | 5.73 | 0.54 | 0.69 | 0.84 | 28.8 | 6.91 | 0.53 | 0.70 | 0.88 | 24.3 | 8.30 | 0.52 | 0.72 | 0.93 | 19.5 | 9.96 | 0.50 | 0.75 | 1.00 |
| | 1888 | 34.7 | 5.76 | 0.59 | 0.76 | 0.94 | 30.3 | 6.95 | 0.58 | 0.78 | 0.98 | 25.6 | 8.33 | 0.58 | 0.81 | 1.00 | 20.6 | 10.00 | 0.58 | 0.88 | 1.00 |
| | 2265 | 36.0 | 5.78 | 0.62 | 0.82 | 1.00 | 31.4 | 6.97 | 0.63 | 0.85 | 1.00 | 26.7 | 8.37 | 0.63 | 0.91 | 1.00 | 21.6 | 10.04 | 0.65 | 0.98 | 1.00 |
| 21.7°C | 1510 | 35.3 | 5.76 | 0.40 | 0.54 | 0.67 | 31.1 | 6.96 | 0.37 | 0.53 | 0.68 | 26.5 | 8.36 | 0.33 | 0.52 | 0.70 | 21.5 | 10.04 | 0.28 | 0.51 | 0.73 |
| | 1888 | 37.2 | 5.80 | 0.42 | 0.58 | 0.74 | 32.7 | 7.00 | 0.4 | 0.58 | 0.76 | 27.9 | 8.40 | 0.37 | 0.58 | 0.79 | 22.7 | 10.08 | 0.33 | 0.59 | 0.85 |
| | 2265 | 38.5 | 5.82 | 0.44 | 0.62 | 0.80 | 33.8 | 7.03 | 0.42 | 0.62 | 0.83 | 28.9 | 8.44 | 0.4 | 0.64 | 0.88 | 23.5 | 10.12 | 0.36 | 0.66 | 0.96 |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 48°C | | | | | 50°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1510 | 19.8 | 9.12 | 0.76 | 1.00 | 1.00 | 18.8 | 9.53 | 0.76 | 1.00 | 1.00 |
| | 1890 | 21.8 | 9.19 | 0.87 | 1.00 | 1.00 | 20.8 | 9.60 | 0.89 | 1.00 | 1.00 |
| | 2265 | 23.4 | 9.24 | 0.97 | 1.00 | 1.00 | 22.3 | 9.66 | 0.99 | 1.00 | 1.00 |
| 19.4°C | 1510 | 21.7 | 9.18 | 0.51 | 0.74 | 0.97 | 20.5 | 9.59 | 0.51 | 0.74 | 0.99 |
| | 1890 | 22.9 | 9.23 | 0.58 | 0.84 | 1.00 | 21.7 | 9.64 | 0.58 | 0.86 | 1.00 |
| | 2265 | 23.9 | 9.26 | 0.64 | 0.95 | 1.00 | 22.6 | 9.67 | 0.64 | 0.97 | 1.00 |
| 21.7°C | 1510 | 23.8 | 9.25 | 0.31 | 0.52 | 0.72 | 22.6 | 9.67 | 0.29 | 0.52 | 0.73 |
| | 1890 | 25.1 | 9.30 | 0.34 | 0.58 | 0.82 | 23.8 | 9.71 | 0.33 | 0.59 | 0.83 |
| | 2265 | 25.9 | 9.33 | 0.38 | 0.65 | 0.92 | 24.6 | 9.74 | 0.37 | 0.65 | 0.94 |

RATINGS

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

44 KW STANDARD EFFICIENCY ZCA150S4B (1ST STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 18.3°C | | | | | 23.9°C | | | | | 29.4°C | | | | | 35°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1793 | 20.4 | 2.79 | 0.66 | 0.83 | 1.00 | 19.0 | 3.13 | 0.67 | 0.86 | 1.00 | 17.5 | 3.51 | 0.68 | 0.88 | 1.00 | 16.0 | 3.94 | 0.69 | 0.92 | 1.00 |
| | 2077 | 21.2 | 2.81 | 0.70 | 0.9 | 1.00 | 19.7 | 3.15 | 0.71 | 0.93 | 1.00 | 18.2 | 3.53 | 0.72 | 0.97 | 1.00 | 16.6 | 3.96 | 0.74 | 1.00 | 1.00 |
| | 2360 | 21.9 | 2.82 | 0.74 | 0.96 | 1.00 | 20.3 | 3.17 | 0.76 | 0.99 | 1.00 | 18.8 | 3.55 | 0.77 | 1.00 | 1.00 | 17.3 | 3.98 | 0.80 | 1.00 | 1.00 |
| 19.4°C | 1793 | 21.9 | 2.82 | 0.52 | 0.64 | 0.79 | 20.4 | 3.17 | 0.52 | 0.65 | 0.81 | 18.8 | 3.55 | 0.52 | 0.66 | 0.84 | 17.2 | 3.98 | 0.51 | 0.67 | 0.87 |
| | 2077 | 22.7 | 2.84 | 0.54 | 0.68 | 0.85 | 21.1 | 3.19 | 0.54 | 0.68 | 0.88 | 19.5 | 3.57 | 0.54 | 0.70 | 0.92 | 17.8 | 4.00 | 0.54 | 0.72 | 0.96 |
| | 2360 | 23.3 | 2.86 | 0.57 | 0.72 | 0.92 | 21.7 | 3.21 | 0.57 | 0.73 | 0.96 | 20.1 | 3.59 | 0.57 | 0.75 | 0.99 | 18.3 | 4.01 | 0.57 | 0.77 | 1.00 |
| 21.7°C | 1793 | 23.3 | 2.86 | 0.39 | 0.51 | 0.63 | 21.8 | 3.21 | 0.38 | 0.51 | 0.63 | 20.2 | 3.59 | 0.37 | 0.51 | 0.64 | 18.5 | 4.02 | 0.36 | 0.51 | 0.65 |
| | 2077 | 24.1 | 2.88 | 0.41 | 0.54 | 0.66 | 22.5 | 3.23 | 0.4 | 0.54 | 0.67 | 20.9 | 3.61 | 0.39 | 0.54 | 0.68 | 19.1 | 4.04 | 0.38 | 0.54 | 0.70 |
| | 2360 | 24.7 | 2.90 | 0.42 | 0.56 | 0.70 | 23.1 | 3.25 | 0.41 | 0.56 | 0.71 | 21.4 | 3.63 | 0.4 | 0.56 | 0.73 | 19.6 | 4.06 | 0.39 | 0.57 | 0.75 |

44 KW STANDARD EFFICIENCY ZCA150S4B (2ND STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 26.7°C | | | | | 35°C | | | | | 43.3°C | | | | | 51.7°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1793 | 36.9 | 6.72 | 0.73 | 0.9 | 1.00 | 32.2 | 7.99 | 0.75 | 0.95 | 1.00 | 27.3 | 9.52 | 0.78 | 1.00 | 1.00 | 22.4 | 11.46 | 0.83 | 1.00 | 1.00 |
| | 2077 | 38.3 | 6.77 | 0.78 | 0.96 | 1.00 | 33.6 | 8.03 | 0.80 | 1.00 | 1.00 | 28.8 | 9.57 | 0.84 | 1.00 | 1.00 | 23.9 | 11.53 | 0.91 | 1.00 | 1.00 |
| | 2360 | 39.6 | 6.80 | 0.82 | 1.00 | 1.00 | 35.1 | 8.08 | 0.85 | 1.00 | 1.00 | 30.3 | 9.64 | 0.90 | 1.00 | 1.00 | 25.0 | 11.57 | 0.99 | 1.00 | 1.00 |
| 19.4°C | 1793 | 39.7 | 6.80 | 0.56 | 0.71 | 0.87 | 34.8 | 8.07 | 0.56 | 0.73 | 0.91 | 29.7 | 9.61 | 0.56 | 0.76 | 0.96 | 23.9 | 11.53 | 0.54 | 0.80 | 1.00 |
| | 2077 | 41.1 | 6.84 | 0.59 | 0.76 | 0.93 | 36.0 | 8.11 | 0.59 | 0.78 | 0.98 | 30.6 | 9.65 | 0.59 | 0.82 | 1.00 | 24.8 | 11.56 | 0.60 | 0.88 | 1.00 |
| | 2360 | 42.2 | 6.88 | 0.62 | 0.8 | 0.98 | 37.0 | 8.15 | 0.62 | 0.83 | 1.00 | 31.4 | 9.68 | 0.63 | 0.88 | 1.00 | 25.5 | 11.59 | 0.65 | 0.96 | 1.00 |
| 21.7°C | 1793 | 42.4 | 6.88 | 0.41 | 0.55 | 0.69 | 37.4 | 8.16 | 0.39 | 0.55 | 0.71 | 32.1 | 9.70 | 0.36 | 0.56 | 0.74 | 26.1 | 11.61 | 0.33 | 0.55 | 0.78 |
| | 2077 | 43.8 | 6.93 | 0.42 | 0.58 | 0.74 | 38.6 | 8.20 | 0.41 | 0.59 | 0.76 | 33.1 | 9.74 | 0.38 | 0.6 | 0.80 | 27.0 | 11.65 | 0.35 | 0.61 | 0.86 |
| | 2360 | 45.0 | 6.97 | 0.44 | 0.62 | 0.78 | 39.6 | 8.24 | 0.42 | 0.62 | 0.81 | 33.9 | 9.78 | 0.40 | 0.63 | 0.86 | 27.7 | 11.68 | 0.37 | 0.65 | 0.94 |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 48°C | | | | | 50°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1795 | 24.5 | 10.55 | 0.80 | 1.00 | 1.00 | 23.4 | 11.03 | 0.81 | 1.00 | 1.00 |
| | 2075 | 26.1 | 10.61 | 0.87 | 1.00 | 1.00 | 24.9 | 11.10 | 0.89 | 1.00 | 1.00 |
| | 2360 | 27.5 | 10.66 | 0.94 | 1.00 | 1.00 | 26.1 | 11.14 | 0.96 | 1.00 | 1.00 |
| 19.4°C | 1795 | 26.5 | 10.62 | 0.55 | 0.78 | 1.00 | 25.1 | 11.10 | 0.55 | 0.79 | 1.00 |
| | 2075 | 27.4 | 10.66 | 0.60 | 0.85 | 1.00 | 26.1 | 11.13 | 0.60 | 0.87 | 1.00 |
| | 2360 | 28.2 | 10.69 | 0.64 | 0.92 | 1.00 | 26.7 | 11.16 | 0.64 | 0.94 | 1.00 |
| 21.7°C | 1795 | 28.8 | 10.72 | 0.35 | 0.56 | 0.76 | 27.5 | 11.19 | 0.33 | 0.55 | 0.77 |
| | 2075 | 29.7 | 10.75 | 0.36 | 0.60 | 0.83 | 28.3 | 11.22 | 0.36 | 0.60 | 0.85 |
| | 2360 | 30.5 | 10.78 | 0.39 | 0.64 | 0.90 | 29.0 | 11.25 | 0.38 | 0.65 | 0.92 |

BLOWER DATA

092 STANDARD EFFICIENCY BELT DRIVE BLOWER – BASE UNIT

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY (NO HEAT SECTION) WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE. FOR ALL UNITS ADD:

- 1 – Wet indoor coil air resistance of selected unit.
- 2 – Any factory installed options air resistance (heat section, economizer, etc.)
- 3 – Any field installed accessories air resistance (duct resistance, diffuser, etc.)

Then determine from blower table blower motor output required.

See page 20 for blower motors and drives.

See page 20 for wet coil and option/accessory air resistance data.

MINIMUM AIR VOLUME REQUIRED FOR USE WITH OPTIONAL ELECTRIC HEAT - Maximum Static Pressure - 500 Pa (2.0 in. w.g.)

5.7 kW, 11.5 kW, 17.2 kW - 975 L/s (2065 cfm)

23 kW - 1060 L/s (2250 cfm)

34.5 kW - 1240 L/s (2625 cfm)

| Total Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | | | | |
|------------------|------|---|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|
| | | 50 (0.20) | | | 100 (0.40) | | | 150 (0.60) | | | 200 (0.80) | | | 250 (1.00) | | | 300 (1.20) | | | 350 (1.40) | | |
| 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 |
| 825 | 1750 | 494 | 0.08 | 0.11 | 562 | 0.25 | 0.34 | 632 | 0.42 | 0.56 | 702 | 0.55 | 0.74 | 771 | 0.63 | 0.85 | 838 | 0.72 | 0.96 | 902 | 0.80 | 1.07 |
| 945 | 2000 | 514 | 0.19 | 0.26 | 581 | 0.37 | 0.49 | 650 | 0.52 | 0.7 | 719 | 0.65 | 0.87 | 786 | 0.73 | 0.98 | 852 | 0.81 | 1.09 | 915 | 0.90 | 1.20 |
| 1060 | 2250 | 533 | 0.31 | 0.41 | 599 | 0.46 | 0.62 | 667 | 0.61 | 0.82 | 735 | 0.74 | 0.99 | 802 | 0.82 | 1.10 | 866 | 0.90 | 1.21 | 928 | 0.99 | 1.33 |
| 1180 | 2500 | 553 | 0.41 | 0.55 | 619 | 0.57 | 0.76 | 685 | 0.71 | 0.95 | 753 | 0.82 | 1.10 | 818 | 0.91 | 1.22 | 881 | 1.00 | 1.34 | 942 | 1.10 | 1.47 |
| 1300 | 2750 | 573 | 0.52 | 0.70 | 638 | 0.67 | 0.90 | 705 | 0.81 | 1.08 | 771 | 0.91 | 1.22 | 835 | 1.01 | 1.35 | 897 | 1.11 | 1.49 | 957 | 1.22 | 1.63 |
| 1415 | 3000 | 594 | 0.63 | 0.85 | 659 | 0.78 | 1.05 | 725 | 0.91 | 1.22 | 791 | 1.01 | 1.36 | 853 | 1.12 | 1.5 | 915 | 1.23 | 1.65 | 973 | 1.35 | 1.81 |
| 1535 | 3250 | 617 | 0.75 | 1.01 | 682 | 0.90 | 1.20 | 747 | 1.02 | 1.37 | 812 | 1.13 | 1.52 | 873 | 1.25 | 1.67 | 934 | 1.37 | 1.83 | 990 | 1.50 | 2.01 |
| 1650 | 3500 | 640 | 0.87 | 1.17 | 706 | 1.01 | 1.36 | 771 | 1.14 | 1.53 | 834 | 1.27 | 1.70 | 895 | 1.39 | 1.86 | 954 | 1.51 | 2.03 | 1008 | 1.66 | 2.23 |
| 1770 | 3750 | 665 | 1.00 | 1.34 | 731 | 1.15 | 1.54 | 796 | 1.28 | 1.72 | 857 | 1.41 | 1.89 | 917 | 1.54 | 2.07 | 975 | 1.69 | 2.26 | 1027 | 1.85 | 2.48 |
| 1890 | 4000 | 692 | 1.15 | 1.54 | 758 | 1.31 | 1.75 | 822 | 1.44 | 1.93 | 882 | 1.57 | 2.11 | 940 | 1.72 | 2.3 | 996 | 1.87 | 2.51 | 1047 | 2.06 | 2.76 |
| 2005 | 4250 | 722 | 1.31 | 1.76 | 787 | 1.47 | 1.97 | 849 | 1.60 | 2.15 | 908 | 1.75 | 2.35 | 965 | 1.91 | 2.56 | 1018 | 2.08 | 2.79 | 1067 | 2.28 | 3.06 |

| Total Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | | | | |
|------------------|------|---|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|---------|-----|-----|
| | | 400 (1.60) | | | 450 (1.80) | | | 500 (2.00) | | | 550 (2.20) | | | 600 (2.40) | | | 650 (2.60) | | | | | |
| 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 |
| 825 | 1750 | 961 | 0.89 | 1.19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 945 | 2000 | 972 | 0.98 | 1.32 | 1026 | 1.10 | 1.47 | 1076 | 1.23 | 1.65 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1060 | 2250 | 984 | 1.09 | 1.46 | 1037 | 1.22 | 1.63 | 1085 | 1.35 | 1.81 | 1132 | 1.50 | 2.01 | 1178 | 1.65 | 2.21 | 1226 | 1.81 | 2.43 | --- | --- | --- |
| 1180 | 2500 | 997 | 1.21 | 1.62 | 1048 | 1.34 | 1.80 | 1096 | 1.48 | 1.99 | 1142 | 1.64 | 2.2 | 1188 | 1.80 | 2.41 | 1237 | 1.97 | 2.64 | --- | --- | --- |
| 1300 | 2750 | 1011 | 1.34 | 1.80 | 1061 | 1.48 | 1.99 | 1108 | 1.63 | 2.19 | 1154 | 1.80 | 2.41 | 1200 | 1.96 | 2.63 | 1249 | 2.14 | 2.87 | --- | --- | --- |
| 1415 | 3000 | 1026 | 1.48 | 1.99 | 1075 | 1.64 | 2.20 | 1121 | 1.81 | 2.42 | 1167 | 1.97 | 2.64 | 1213 | 2.14 | 2.87 | 1262 | 2.33 | 3.12 | --- | --- | --- |
| 1535 | 3250 | 1042 | 1.65 | 2.21 | 1089 | 1.81 | 2.43 | 1135 | 1.98 | 2.66 | 1181 | 2.16 | 2.9 | 1228 | 2.33 | 3.13 | 1277 | 2.52 | 3.38 | --- | --- | --- |
| 1650 | 3500 | 1058 | 1.84 | 2.46 | 1105 | 2.01 | 2.69 | 1150 | 2.19 | 2.93 | 1196 | 2.36 | 3.17 | 1243 | 2.54 | 3.41 | 1293 | 2.72 | 3.65 | --- | --- | --- |
| 1770 | 3750 | 1076 | 2.03 | 2.72 | 1121 | 2.22 | 2.97 | 1166 | 2.40 | 3.22 | 1212 | 2.58 | 3.46 | 1261 | 2.77 | 3.71 | 1311 | 2.95 | 3.96 | --- | --- | --- |
| 1890 | 4000 | 1094 | 2.25 | 3.02 | 1139 | 2.44 | 3.27 | 1184 | 2.63 | 3.52 | 1230 | 2.81 | 3.77 | 1280 | 3.01 | 4.03 | 1330 | 3.20 | 4.29 | --- | --- | --- |
| 2005 | 4250 | 1113 | 2.48 | 3.33 | 1157 | 2.68 | 3.59 | 1202 | 2.87 | 3.85 | 1250 | 3.07 | 4.11 | 1300 | 3.27 | 4.38 | 1352 | 3.47 | 4.65 | --- | --- | --- |

BLOWER DATA

102 STANDARD EFFICIENCY BELT DRIVE BLOWER – BASE UNIT

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY (NO HEAT SECTION) WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE. FOR ALL UNITS ADD:

- 1 – Wet indoor coil air resistance of selected unit.
- 2 – Any factory installed options air resistance (heat section, economizer, etc.)
- 3 – Any field installed accessories air resistance (duct resistance, diffuser, etc.)

Then determine from blower table blower motor output required.

See page 21 for blower motors and drives.

See page 21 for wet coil and option/accessory air resistance data.

MINIMUM AIR VOLUME REQUIRED FOR USE WITH OPTIONAL ELECTRIC HEAT - Maximum Static Pressure - 500 Pa (2.0 in. w.g.)

5.7 kW, 11.5 kW, 17.2 kW - 975 L/s (2065 cfm)

23 kW - 1060 L/s (2250 cfm)

34.5 kW - 1240 L/s (2625 cfm)

| Total Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | | | | |
|------------------|------|---|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|
| | | 50 (0.20) | | | 100 (0.40) | | | 150 (0.60) | | | 200 (0.80) | | | 250 (1.00) | | | 300 (1.20) | | | 350 (1.40) | | |
| 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 |
| 825 | 1750 | 494 | 0.08 | 0.11 | 562 | 0.25 | 0.34 | 632 | 0.42 | 0.56 | 702 | 0.55 | 0.74 | 771 | 0.63 | 0.85 | 838 | 0.72 | 0.96 | 902 | 0.80 | 1.07 |
| 945 | 2000 | 514 | 0.19 | 0.26 | 581 | 0.37 | 0.49 | 650 | 0.52 | 0.70 | 719 | 0.65 | 0.87 | 786 | 0.73 | 0.98 | 852 | 0.81 | 1.09 | 915 | 0.90 | 1.20 |
| 1060 | 2250 | 533 | 0.31 | 0.41 | 599 | 0.46 | 0.62 | 667 | 0.61 | 0.82 | 735 | 0.74 | 0.99 | 802 | 0.82 | 1.10 | 866 | 0.90 | 1.21 | 928 | 0.99 | 1.33 |
| 1180 | 2500 | 553 | 0.41 | 0.55 | 619 | 0.57 | 0.76 | 685 | 0.71 | 0.95 | 753 | 0.82 | 1.10 | 818 | 0.91 | 1.22 | 881 | 1.00 | 1.34 | 942 | 1.10 | 1.47 |
| 1300 | 2750 | 573 | 0.52 | 0.70 | 638 | 0.67 | 0.90 | 705 | 0.81 | 1.08 | 771 | 0.91 | 1.22 | 835 | 1.01 | 1.35 | 897 | 1.11 | 1.49 | 957 | 1.22 | 1.63 |
| 1415 | 3000 | 594 | 0.63 | 0.85 | 659 | 0.78 | 1.05 | 725 | 0.91 | 1.22 | 791 | 1.01 | 1.36 | 853 | 1.12 | 1.50 | 915 | 1.23 | 1.65 | 973 | 1.35 | 1.81 |
| 1535 | 3250 | 617 | 0.75 | 1.01 | 682 | 0.90 | 1.20 | 747 | 1.02 | 1.37 | 812 | 1.13 | 1.52 | 873 | 1.25 | 1.67 | 934 | 1.37 | 1.83 | 990 | 1.50 | 2.01 |
| 1650 | 3500 | 640 | 0.87 | 1.17 | 706 | 1.01 | 1.36 | 771 | 1.14 | 1.53 | 834 | 1.27 | 1.70 | 895 | 1.39 | 1.86 | 954 | 1.51 | 2.03 | 1008 | 1.66 | 2.23 |
| 1770 | 3750 | 665 | 1.00 | 1.34 | 731 | 1.15 | 1.54 | 796 | 1.28 | 1.72 | 857 | 1.41 | 1.89 | 917 | 1.54 | 2.07 | 975 | 1.69 | 2.26 | 1027 | 1.85 | 2.48 |
| 1890 | 4000 | 692 | 1.15 | 1.54 | 758 | 1.31 | 1.75 | 822 | 1.44 | 1.93 | 882 | 1.57 | 2.11 | 940 | 1.72 | 2.30 | 996 | 1.87 | 2.51 | 1047 | 2.06 | 2.76 |
| 2005 | 4250 | 722 | 1.31 | 1.76 | 787 | 1.47 | 1.97 | 849 | 1.60 | 2.15 | 908 | 1.75 | 2.35 | 965 | 1.91 | 2.56 | 1018 | 2.08 | 2.79 | 1067 | 2.28 | 3.06 |

| Total Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | | | | |
|------------------|------|---|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|---------|------|------|
| | | 400 (1.60) | | | 450 (1.80) | | | 500 (2.00) | | | 550 (2.20) | | | 600 (2.40) | | | 650 (2.60) | | | | | |
| 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 |
| 825 | 1750 | 961 | 0.89 | 1.19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 945 | 2000 | 972 | 0.98 | 1.32 | 1026 | 1.10 | 1.47 | 1076 | 1.23 | 1.65 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1060 | 2250 | 984 | 1.09 | 1.46 | 1037 | 1.22 | 1.63 | 1085 | 1.35 | 1.81 | 1132 | 1.50 | 2.01 | 1178 | 1.65 | 2.21 | 1226 | 1.81 | 2.43 | 1272 | 1.97 | 2.64 |
| 1180 | 2500 | 997 | 1.21 | 1.62 | 1048 | 1.34 | 1.80 | 1096 | 1.48 | 1.99 | 1142 | 1.64 | 2.20 | 1188 | 1.80 | 2.41 | 1237 | 1.97 | 2.64 | 1283 | 2.14 | 2.87 |
| 1300 | 2750 | 1011 | 1.34 | 1.80 | 1061 | 1.48 | 1.99 | 1108 | 1.63 | 2.19 | 1154 | 1.80 | 2.41 | 1200 | 1.96 | 2.63 | 1249 | 2.14 | 2.87 | 1295 | 2.33 | 3.12 |
| 1415 | 3000 | 1026 | 1.48 | 1.99 | 1075 | 1.64 | 2.20 | 1121 | 1.81 | 2.42 | 1167 | 1.97 | 2.64 | 1213 | 2.14 | 2.87 | 1262 | 2.33 | 3.12 | 1308 | 2.52 | 3.38 |
| 1535 | 3250 | 1042 | 1.65 | 2.21 | 1089 | 1.81 | 2.43 | 1135 | 1.98 | 2.66 | 1181 | 2.16 | 2.90 | 1228 | 2.33 | 3.13 | 1277 | 2.52 | 3.38 | 1323 | 2.72 | 3.65 |
| 1650 | 3500 | 1058 | 1.84 | 2.46 | 1105 | 2.01 | 2.69 | 1150 | 2.19 | 2.93 | 1196 | 2.36 | 3.17 | 1243 | 2.54 | 3.41 | 1293 | 2.72 | 3.65 | 1338 | 2.95 | 3.96 |
| 1770 | 3750 | 1076 | 2.03 | 2.72 | 1121 | 2.22 | 2.97 | 1166 | 2.40 | 3.22 | 1212 | 2.58 | 3.46 | 1261 | 2.77 | 3.71 | 1311 | 2.95 | 3.96 | 1356 | 3.20 | 4.29 |
| 1890 | 4000 | 1094 | 2.25 | 3.02 | 1139 | 2.44 | 3.27 | 1184 | 2.63 | 3.52 | 1230 | 2.81 | 3.77 | 1280 | 3.01 | 4.03 | 1330 | 3.20 | 4.29 | 1375 | 3.47 | 4.65 |
| 2005 | 4250 | 1113 | 2.48 | 3.33 | 1157 | 2.68 | 3.59 | 1202 | 2.87 | 3.85 | 1250 | 3.07 | 4.11 | 1300 | 3.27 | 4.38 | 1352 | 3.47 | 4.65 | 1400 | 3.75 | 5.03 |

BLOWER DATA

120 STANDARD EFFICIENCY BELT DRIVE BLOWER – BASE UNIT

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY (NO HEAT SECTION) WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE. FOR ALL UNITS ADD:

- 1 – Wet indoor coil air resistance of selected unit.
- 2 – Any factory installed options air resistance (heat section, economizer, etc.)
- 3 – Any field installed accessories air resistance (duct resistance, diffuser, etc.)

Then determine from blower table blower motor output required.

See page 20 for blower motors and drives.

See page 20 for wet coil and option/accessory air resistance data.

MINIMUM AIR VOLUME REQUIRED FOR USE WITH OPTIONAL ELECTRIC HEAT - Maximum Static Pressure - 500 Pa (2.0 in. w.g.)

11.5 kW, 17.2 kW - 975 L/s (2065 cfm)

23 kW - 1060 L/s (2250 cfm)

34.5 kW - 1240 L/s (2625 cfm)

45.9 kW - 1650 L/s (3500 cfm)

| Total Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | | | | |
|------------------|------|---|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|
| | | 50 (0.20) | | | 100 (0.40) | | | 150 (0.60) | | | 200 (0.80) | | | 250 (1.00) | | | 300 (1.20) | | | 350 (1.40) | | |
| 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 |
| 945 | 2000 | 535 | 0.21 | 0.28 | 596 | 0.37 | 0.49 | 660 | 0.51 | 0.69 | 724 | 0.65 | 0.87 | 788 | 0.75 | 1.00 | 851 | 0.83 | 1.11 | 913 | 0.92 | 1.23 |
| 1060 | 2250 | 552 | 0.32 | 0.43 | 613 | 0.47 | 0.63 | 675 | 0.60 | 0.81 | 738 | 0.73 | 0.98 | 802 | 0.83 | 1.11 | 864 | 0.91 | 1.22 | 925 | 1.01 | 1.36 |
| 1180 | 2500 | 570 | 0.43 | 0.57 | 630 | 0.57 | 0.76 | 692 | 0.70 | 0.94 | 754 | 0.82 | 1.10 | 817 | 0.91 | 1.22 | 879 | 1.01 | 1.35 | 939 | 1.13 | 1.51 |
| 1300 | 2750 | 589 | 0.54 | 0.72 | 648 | 0.68 | 0.91 | 709 | 0.81 | 1.08 | 772 | 0.91 | 1.22 | 833 | 1.01 | 1.36 | 894 | 1.12 | 1.50 | 954 | 1.25 | 1.67 |
| 1415 | 3000 | 608 | 0.65 | 0.87 | 668 | 0.78 | 1.05 | 729 | 0.91 | 1.22 | 791 | 1.02 | 1.37 | 852 | 1.13 | 1.51 | 912 | 1.25 | 1.67 | 970 | 1.38 | 1.85 |
| 1535 | 3250 | 629 | 0.77 | 1.03 | 688 | 0.90 | 1.21 | 749 | 1.02 | 1.37 | 811 | 1.13 | 1.52 | 871 | 1.25 | 1.68 | 930 | 1.39 | 1.86 | 987 | 1.54 | 2.06 |
| 1650 | 3500 | 651 | 0.90 | 1.20 | 710 | 1.03 | 1.38 | 772 | 1.15 | 1.54 | 833 | 1.27 | 1.70 | 892 | 1.40 | 1.88 | 950 | 1.54 | 2.07 | 1004 | 1.70 | 2.28 |
| 1770 | 3750 | 674 | 1.01 | 1.36 | 734 | 1.16 | 1.56 | 796 | 1.29 | 1.73 | 856 | 1.42 | 1.90 | 914 | 1.57 | 2.10 | 970 | 1.72 | 2.30 | 1023 | 1.89 | 2.53 |
| 1890 | 4000 | 699 | 1.16 | 1.55 | 761 | 1.31 | 1.76 | 822 | 1.45 | 1.94 | 880 | 1.58 | 2.12 | 936 | 1.74 | 2.33 | 991 | 1.91 | 2.56 | 1042 | 2.10 | 2.81 |
| 2005 | 4250 | 726 | 1.32 | 1.77 | 789 | 1.48 | 1.98 | 849 | 1.61 | 2.16 | 904 | 1.77 | 2.37 | 959 | 1.93 | 2.59 | 1012 | 2.12 | 2.84 | 1062 | 2.32 | 3.11 |
| 2125 | 4500 | 756 | 1.50 | 2.01 | 818 | 1.66 | 2.22 | 875 | 1.80 | 2.41 | 929 | 1.96 | 2.63 | 983 | 2.15 | 2.88 | 1034 | 2.35 | 3.15 | 1082 | 2.57 | 3.44 |
| 2240 | 4750 | 788 | 1.69 | 2.27 | 848 | 1.84 | 2.47 | 902 | 2.00 | 2.68 | 955 | 2.18 | 2.92 | 1006 | 2.39 | 3.20 | 1056 | 2.61 | 3.50 | 1104 | 2.83 | 3.79 |
| 2360 | 5000 | 822 | 1.89 | 2.54 | 878 | 2.05 | 2.75 | 929 | 2.22 | 2.98 | 980 | 2.42 | 3.25 | 1031 | 2.66 | 3.56 | 1079 | 2.89 | 3.87 | 1126 | 3.10 | 4.16 |

| Total Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | | | | |
|------------------|------|---|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|---------|------|------|
| | | 400 (1.60) | | | 450 (1.80) | | | 500 (2.00) | | | 550 (2.20) | | | 600 (2.40) | | | 650 (2.60) | | | | | |
| 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 |
| 945 | 2000 | 971 | 1.02 | 1.37 | 1025 | 1.13 | 1.52 | 1076 | 1.26 | 1.69 | 1124 | 1.39 | 1.86 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1060 | 2250 | 982 | 1.13 | 1.51 | 1036 | 1.25 | 1.68 | 1085 | 1.38 | 1.85 | 1133 | 1.52 | 2.04 | 1180 | 1.66 | 2.23 | 1228 | 1.82 | 2.44 | 1276 | 1.98 | 2.65 |
| 1180 | 2500 | 995 | 1.25 | 1.67 | 1047 | 1.38 | 1.85 | 1096 | 1.52 | 2.04 | 1143 | 1.66 | 2.23 | 1190 | 1.81 | 2.43 | 1239 | 1.98 | 2.65 | 1287 | 2.14 | 2.87 |
| 1300 | 2750 | 1009 | 1.38 | 1.85 | 1059 | 1.52 | 2.04 | 1108 | 1.67 | 2.24 | 1154 | 1.82 | 2.44 | 1202 | 1.98 | 2.65 | 1251 | 2.14 | 2.87 | 1300 | 2.30 | 3.08 |
| 1415 | 3000 | 1023 | 1.53 | 2.05 | 1073 | 1.68 | 2.25 | 1120 | 1.84 | 2.46 | 1167 | 1.99 | 2.67 | 1215 | 2.16 | 2.89 | 1265 | 2.32 | 3.11 | 1314 | 2.48 | 3.33 |
| 1535 | 3250 | 1039 | 1.69 | 2.27 | 1088 | 1.86 | 2.49 | 1134 | 2.01 | 2.70 | 1181 | 2.18 | 2.92 | 1229 | 2.34 | 3.14 | 1279 | 2.51 | 3.37 | 1333 | 2.67 | 3.55 |
| 1650 | 3500 | 1055 | 1.87 | 2.51 | 1103 | 2.04 | 2.74 | 1150 | 2.21 | 2.96 | 1196 | 2.38 | 3.19 | 1245 | 2.55 | 3.42 | 1295 | 2.72 | 3.65 | 1349 | 2.88 | 3.83 |
| 1770 | 3750 | 1072 | 2.07 | 2.78 | 1120 | 2.25 | 3.02 | 1166 | 2.42 | 3.25 | 1213 | 2.59 | 3.47 | 1262 | 2.77 | 3.71 | 1313 | 2.95 | 3.95 | 1367 | 3.11 | 4.09 |
| 1890 | 4000 | 1090 | 2.29 | 3.07 | 1137 | 2.47 | 3.31 | 1183 | 2.65 | 3.55 | 1231 | 2.82 | 3.78 | 1281 | 3.01 | 4.03 | 1333 | 3.19 | 4.28 | 1387 | 3.35 | 4.45 |
| 2005 | 4250 | 1109 | 2.52 | 3.38 | 1156 | 2.71 | 3.63 | 1202 | 2.89 | 3.87 | 1251 | 3.07 | 4.11 | 1302 | 3.26 | 4.37 | 1354 | 3.45 | 4.63 | 1408 | 3.61 | 4.81 |
| 2125 | 4500 | 1129 | 2.77 | 3.71 | 1175 | 2.95 | 3.96 | 1222 | 3.14 | 4.21 | 1271 | 3.33 | 4.46 | 1323 | 3.52 | 4.72 | 1376 | 3.73 | 5.00 | 1430 | 3.88 | 5.16 |
| 2240 | 4750 | 1150 | 3.03 | 4.06 | 1196 | 3.22 | 4.32 | 1243 | 3.41 | 4.57 | 1293 | 3.60 | 4.83 | 1345 | 3.80 | 5.09 | 1399 | 4.01 | 5.37 | 1454 | 4.16 | 5.52 |
| 2360 | 5000 | 1172 | 3.31 | 4.44 | 1218 | 3.51 | 4.70 | 1266 | 3.69 | 4.95 | 1315 | 3.88 | 5.20 | 1367 | 4.08 | 5.47 | 1421 | 4.28 | 5.74 | 1476 | 4.43 | 5.89 |

BLOWER DATA

150 STANDARD EFFICIENCY BELT DRIVE BLOWER – BASE UNIT

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY (NO HEAT SECTION) WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE. FOR ALL UNITS ADD:

- 1 – Wet indoor coil air resistance of selected unit.
- 2 – Any factory installed options air resistance (heat section, economizer, etc.)
- 3 – Any field installed accessories air resistance (duct resistance, diffuser, etc.)

Then determine from blower table blower motor output required.

See page 20 for blower motors and drives.

See page 20 for wet coil and option/accessory air resistance data.

MINIMUM AIR VOLUME REQUIRED FOR USE WITH OPTIONAL ELECTRIC HEAT - Maximum Static Pressure - 500 Pa (2.0 in. w.g.)

11.5 kW, 17.2 kW - 975 L/s (2065 cfm)

23 kW - 1060 L/s (2250 cfm)

34.5 kW - 1240 L/s (2625 cfm)

45.9 kW - 1650 L/s (3500 cfm)

| Total Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | | | | |
|------------------|------|---|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|
| | | 50 (0.20) | | | 100 (0.40) | | | 150 (0.60) | | | 200 (0.80) | | | 250 (1.00) | | | 300 (1.20) | | | 350 (1.40) | | |
| 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 |
| 945 | 2000 | 542 | 0.32 | 0.43 | 602 | 0.45 | 0.6 | 664 | 0.56 | 0.75 | 732 | 0.66 | 0.89 | 802 | 0.76 | 1.02 | 869 | 0.86 | 1.15 | 927 | 0.95 | 1.27 |
| 1060 | 2250 | 560 | 0.41 | 0.55 | 619 | 0.53 | 0.71 | 681 | 0.64 | 0.86 | 748 | 0.75 | 1.00 | 817 | 0.85 | 1.14 | 882 | 0.95 | 1.27 | 939 | 1.05 | 1.41 |
| 1180 | 2500 | 579 | 0.51 | 0.68 | 637 | 0.62 | 0.83 | 699 | 0.73 | 0.98 | 766 | 0.84 | 1.12 | 834 | 0.94 | 1.26 | 897 | 1.05 | 1.41 | 953 | 1.17 | 1.57 |
| 1300 | 2750 | 599 | 0.60 | 0.81 | 657 | 0.72 | 0.97 | 719 | 0.83 | 1.11 | 785 | 0.93 | 1.25 | 851 | 1.05 | 1.41 | 913 | 1.17 | 1.57 | 968 | 1.30 | 1.74 |
| 1415 | 3000 | 620 | 0.71 | 0.95 | 678 | 0.83 | 1.11 | 741 | 0.93 | 1.25 | 806 | 1.04 | 1.40 | 870 | 1.18 | 1.58 | 930 | 1.31 | 1.75 | 985 | 1.45 | 1.94 |
| 1535 | 3250 | 643 | 0.82 | 1.10 | 701 | 0.94 | 1.26 | 764 | 1.05 | 1.41 | 828 | 1.17 | 1.57 | 891 | 1.31 | 1.76 | 950 | 1.45 | 1.95 | 1003 | 1.61 | 2.16 |
| 1650 | 3500 | 667 | 0.94 | 1.26 | 726 | 1.07 | 1.43 | 788 | 1.18 | 1.58 | 851 | 1.32 | 1.77 | 913 | 1.47 | 1.97 | 970 | 1.62 | 2.17 | 1023 | 1.80 | 2.41 |
| 1770 | 3750 | 693 | 1.07 | 1.44 | 752 | 1.20 | 1.61 | 813 | 1.33 | 1.78 | 876 | 1.48 | 1.98 | 936 | 1.64 | 2.20 | 992 | 1.81 | 2.43 | 1043 | 2.00 | 2.68 |
| 1890 | 4000 | 720 | 1.23 | 1.65 | 779 | 1.36 | 1.82 | 840 | 1.49 | 2.00 | 902 | 1.66 | 2.22 | 961 | 1.84 | 2.46 | 1015 | 2.02 | 2.71 | 1064 | 2.22 | 2.98 |
| 2005 | 4250 | 748 | 1.39 | 1.86 | 807 | 1.52 | 2.04 | 868 | 1.67 | 2.24 | 929 | 1.85 | 2.48 | 986 | 2.05 | 2.75 | 1038 | 2.25 | 3.02 | 1086 | 2.46 | 3.3 |
| 2125 | 4500 | 778 | 1.56 | 2.09 | 837 | 1.70 | 2.28 | 898 | 1.87 | 2.51 | 957 | 2.07 | 2.78 | 1012 | 2.29 | 3.07 | 1062 | 2.51 | 3.37 | 1108 | 2.72 | 3.65 |
| 2240 | 4750 | 809 | 1.75 | 2.34 | 868 | 1.91 | 2.56 | 929 | 2.10 | 2.82 | 986 | 2.33 | 3.12 | 1038 | 2.56 | 3.43 | 1087 | 2.79 | 3.74 | 1132 | 3.01 | 4.03 |
| 2360 | 5000 | 841 | 1.95 | 2.62 | 901 | 2.14 | 2.87 | 960 | 2.36 | 3.17 | 1015 | 2.61 | 3.50 | 1065 | 2.86 | 3.83 | 1112 | 3.09 | 4.14 | 1157 | 3.30 | 4.43 |
| 2475 | 5250 | 875 | 2.19 | 2.93 | 935 | 2.41 | 3.23 | 992 | 2.66 | 3.56 | 1044 | 2.92 | 3.91 | 1092 | 3.18 | 4.26 | 1138 | 3.41 | 4.57 | 1182 | 3.62 | 4.85 |
| 2595 | 5500 | 911 | 2.46 | 3.30 | 969 | 2.71 | 3.63 | 1024 | 2.98 | 4.00 | 1074 | 3.26 | 4.37 | 1120 | 3.51 | 4.71 | 1165 | 3.74 | 5.02 | 1208 | 3.95 | 5.29 |
| 2715 | 5750 | 948 | 2.77 | 3.71 | 1004 | 3.04 | 4.08 | 1056 | 3.34 | 4.48 | 1104 | 3.62 | 4.85 | 1148 | 3.87 | 5.19 | 1192 | 4.10 | 5.49 | 1235 | 4.28 | 5.74 |
| 2830 | 6000 | 985 | 3.12 | 4.18 | 1039 | 3.42 | 4.59 | 1088 | 3.73 | 5.00 | 1134 | 4.01 | 5.37 | 1177 | 4.24 | 5.69 | --- | --- | --- | --- | --- | --- |
| 2950 | 6250 | 1022 | 3.51 | 4.70 | 1073 | 3.83 | 5.14 | 1120 | 4.13 | 5.54 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

| Total Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | | | | |
|------------------|------|---|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|---------|-----|-----|
| | | 400 (1.60) | | | 450 (1.80) | | | 500 (2.00) | | | 550 (2.20) | | | 600 (2.40) | | | 650 (2.60) | | | | | |
| 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 |
| 945 | 2000 | 979 | 1.05 | 1.41 | 1029 | 1.17 | 1.57 | 1079 | 1.31 | 1.75 | 1129 | 1.45 | 1.95 | 1179 | 1.60 | 2.15 | 1230 | 1.77 | 2.37 | --- | --- | --- |
| 1060 | 2250 | 991 | 1.17 | 1.57 | 1041 | 1.30 | 1.74 | 1090 | 1.44 | 1.93 | 1140 | 1.59 | 2.13 | 1190 | 1.75 | 2.35 | 1241 | 1.92 | 2.57 | --- | --- | --- |
| 1180 | 2500 | 1005 | 1.30 | 1.74 | 1054 | 1.43 | 1.92 | 1103 | 1.58 | 2.12 | 1152 | 1.74 | 2.33 | 1202 | 1.90 | 2.55 | 1254 | 2.08 | 2.79 | --- | --- | --- |
| 1300 | 2750 | 1020 | 1.44 | 1.93 | 1068 | 1.59 | 2.13 | 1116 | 1.75 | 2.34 | 1165 | 1.91 | 2.56 | 1215 | 2.07 | 2.78 | 1268 | 2.25 | 3.01 | --- | --- | --- |
| 1415 | 3000 | 1036 | 1.60 | 2.14 | 1084 | 1.76 | 2.36 | 1131 | 1.92 | 2.58 | 1180 | 2.09 | 2.80 | 1230 | 2.25 | 3.02 | 1283 | 2.43 | 3.26 | --- | --- | --- |
| 1535 | 3250 | 1053 | 1.78 | 2.38 | 1100 | 1.95 | 2.61 | 1148 | 2.11 | 2.83 | 1196 | 2.28 | 3.06 | 1246 | 2.45 | 3.29 | 1299 | 2.63 | 3.52 | --- | --- | --- |
| 1650 | 3500 | 1071 | 1.98 | 2.65 | 1118 | 2.15 | 2.88 | 1165 | 2.32 | 3.11 | 1213 | 2.48 | 3.33 | 1264 | 2.66 | 3.57 | 1317 | 2.84 | 3.81 | --- | --- | --- |
| 1770 | 3750 | 1091 | 2.19 | 2.93 | 1137 | 2.36 | 3.17 | 1183 | 2.54 | 3.40 | 1232 | 2.72 | 3.64 | 1284 | 2.89 | 3.88 | 1338 | 3.08 | 4.13 | --- | --- | --- |
| 1890 | 4000 | 1111 | 2.42 | 3.24 | 1156 | 2.60 | 3.48 | 1203 | 2.78 | 3.72 | 1253 | 2.95 | 3.96 | 1305 | 3.15 | 4.22 | 1359 | 3.34 | 4.48 | --- | --- | --- |
| 2005 | 4250 | 1132 | 2.66 | 3.57 | 1177 | 2.84 | 3.81 | 1224 | 3.02 | 4.05 | 1274 | 3.22 | 4.31 | 1327 | 3.41 | 4.57 | 1382 | 3.62 | 4.85 | --- | --- | --- |
| 2125 | 4500 | 1154 | 2.92 | 3.92 | 1199 | 3.11 | 4.17 | 1247 | 3.29 | 4.41 | 1297 | 3.48 | 4.67 | 1350 | 3.69 | 4.94 | 1405 | 3.89 | 5.22 | --- | --- | --- |
| 2240 | 4750 | 1177 | 3.20 | 4.29 | 1223 | 3.39 | 4.54 | 1270 | 3.57 | 4.79 | 1321 | 3.76 | 5.04 | 1374 | 3.96 | 5.31 | 1428 | 4.16 | 5.58 | --- | --- | --- |
| 2360 | 5000 | 1201 | 3.50 | 4.69 | 1247 | 3.69 | 4.94 | 1295 | 3.86 | 5.18 | 1345 | 4.04 | 5.42 | 1398 | 4.24 | 5.68 | --- | --- | --- | --- | --- | --- |
| 2475 | 5250 | 1226 | 3.80 | 5.10 | 1272 | 3.98 | 5.34 | 1320 | 4.16 | 5.57 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2595 | 5500 | 1253 | 4.13 | 5.53 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

BLOWER DATA

FACTORY INSTALLED BELT DRIVE KIT SPECIFICATIONS

| Nominal | | Maximum | | Drive Kit Number | Rev/Min Range |
|---------|----|---------|------|------------------|---------------|
| kW | hp | kW | hp | | |
| 1.5 | 2 | 1.7 | 2.3 | 1 | 490 - 740 |
| 1.5 | 2 | 1.7 | 2.3 | 2 | 665 - 920 |
| 1.5 | 2 | 1.7 | 2.3 | 3 | 660 - 995 |
| 2.2 | 3 | 2.6 | 3.45 | 7 | 610 - 810 |
| 2.2 | 3 | 2.6 | 3.45 | 8 | 780 - 1000 |
| 2.2 | 3 | 2.6 | 3.45 | 9 | 845 - 1085 |
| 3.7 | 5 | 4.3 | 5.75 | 10 | 750 - 945 |
| 3.7 | 5 | 4.3 | 5.75 | 11 | 865 - 1095 |
| 3.7 | 5 | 4.3 | 5.75 | 12 | 940 - 1190 |

NOTE - Using total air volume and system static pressure requirements determine from blower performance tables rev/min and motor output required. Maximum usable output of motors furnished are shown. If motors of comparable output 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 | 1687 | 3575 |
| 12 | 0.05 | 1607 | 3405 |
| 25 | 0.10 | 1675 | 3550 |
| 37 | 0.15 | 1531 | 3245 |
| 50 | 0.20 | 1470 | 3115 |
| 62 | 0.25 | 1425 | 3020 |
| 75 | 0.30 | 1369 | 2900 |
| 87 | 0.35 | 1314 | 2785 |

FACTORY INSTALLED OPTIONS/FIELD INSTALLED ACCESSORY AIR RESISTANCE

| Air Volume | | Wet Indoor Coil | | | | | | Electric Heat | | Economizer | | Filters | | | |
|------------|------|-----------------|----------|----------|----------|-----|----------|---------------|----------|------------|----------|---------|----------|---------|----------|
| | | 092 | | 102, 120 | | 150 | | | | | | MERV 8 | | MERV 13 | |
| 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. |
| 825 | 1750 | 5 | 0.02 | 7 | 0.03 | 10 | 0.04 | 7 | 0.03 | 7 | 0.03 | 2 | 0.01 | 7 | 0.03 |
| 945 | 2000 | 5 | 0.02 | 10 | 0.04 | 12 | 0.05 | 7 | 0.03 | 12 | 0.05 | 2 | 0.01 | 7 | 0.03 |
| 1060 | 2250 | 7 | 0.03 | 12 | 0.05 | 15 | 0.06 | 10 | 0.04 | 15 | 0.06 | 2 | 0.01 | 10 | 0.04 |
| 1180 | 2500 | 7 | 0.03 | 12 | 0.05 | 17 | 0.07 | 10 | 0.04 | 20 | 0.08 | 2 | 0.01 | 12 | 0.05 |
| 1300 | 2750 | 10 | 0.04 | 15 | 0.06 | 20 | 0.08 | 12 | 0.05 | 22 | 0.09 | 5 | 0.02 | 12 | 0.05 |
| 1415 | 3000 | 12 | 0.05 | 17 | 0.07 | 22 | 0.09 | 15 | 0.06 | 27 | 0.11 | 5 | 0.02 | 15 | 0.06 |
| 1535 | 3250 | 12 | 0.05 | 20 | 0.08 | 25 | 0.10 | 15 | 0.06 | 32 | 0.13 | 5 | 0.02 | 15 | 0.06 |
| 1650 | 3500 | 15 | 0.06 | 22 | 0.09 | 27 | 0.11 | 22 | 0.09 | 37 | 0.15 | 7 | 0.03 | 17 | 0.07 |
| 1770 | 3750 | 17 | 0.07 | 25 | 0.10 | 32 | 0.13 | 22 | 0.09 | 42 | 0.17 | 7 | 0.03 | 20 | 0.08 |
| 1890 | 4000 | 17 | 0.07 | 27 | 0.11 | 35 | 0.14 | 22 | 0.09 | 47 | 0.19 | 10 | 0.04 | 20 | 0.08 |
| 2005 | 4250 | 20 | 0.08 | 32 | 0.13 | 37 | 0.15 | 32 | 0.13 | 52 | 0.21 | 10 | 0.04 | 22 | 0.09 |
| 2125 | 4500 | 22 | 0.09 | 35 | 0.14 | 42 | 0.17 | 35 | 0.14 | 60 | 0.24 | 10 | 0.04 | 22 | 0.09 |
| 2240 | 4750 | 25 | 0.10 | 37 | 0.15 | 45 | 0.18 | 42 | 0.17 | 65 | 0.26 | 12 | 0.05 | 25 | 0.10 |
| 2360 | 5000 | 25 | 0.10 | 40 | 0.16 | 50 | 0.20 | 50 | 0.20 | 72 | 0.29 | 15 | 0.06 | 25 | 0.10 |
| 2475 | 5250 | 27 | 0.11 | 42 | 0.17 | 55 | 0.22 | 55 | 0.22 | 80 | 0.32 | 15 | 0.06 | 27 | 0.11 |
| 2595 | 5500 | 30 | 0.12 | 47 | 0.19 | 57 | 0.23 | 62 | 0.25 | 85 | 0.34 | 17 | 0.07 | 30 | 0.12 |
| 2715 | 5750 | 32 | 0.13 | 50 | 0.20 | 62 | 0.25 | 77 | 0.31 | 92 | 0.37 | 17 | 0.07 | 30 | 0.12 |
| 2830 | 6000 | 35 | 0.14 | 55 | 0.22 | 67 | 0.27 | 82 | 0.33 | 99 | 0.40 | 20 | 0.08 | 32 | 0.13 |

BLOWER DATA

CEILING DIFFUSERS AIR RESISTANCE

| Unit Size | RTD11 Step-Down Diffuser | | | | | | | | FD11 Flush Diffuser | |
|------------------|--------------------------|----------|-------------|----------|---------------------|----------|-----------------------|----------|---------------------|----------|
| | Air Volume | | 2 Ends Open | | 1 Side, 2 Ends Open | | All Ends & Sides Open | | | |
| | Pa | in. w.g. | Pa | in. w.g. | Pa | in. w.g. | Pa | in. w.g. | Pa | in. w.g. |
| 092 Models | 1133 | 2400 | 52 | 0.21 | 45 | 0.18 | 37 | 0.15 | 35 | 0.14 |
| | 1227 | 2600 | 60 | 0.24 | 52 | 0.21 | 45 | 0.18 | 42 | 0.17 |
| | 1321 | 2800 | 67 | 0.27 | 60 | 0.24 | 52 | 0.21 | 50 | 0.20 |
| | 1416 | 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 |
| | 1604 | 3400 | 124 | 0.50 | 112 | 0.45 | 97 | 0.39 | 92 | 0.37 |
| | 1699 | 3600 | 152 | 0.61 | 134 | 0.54 | 119 | 0.48 | 109 | 0.44 |
| 102 & 120 Models | 1793 | 3800 | 182 | 0.73 | 157 | 0.63 | 142 | 0.57 | 127 | 0.51 |
| | 1699 | 3600 | 90 | 0.36 | 70 | 0.28 | 57 | 0.23 | 37 | 0.15 |
| | 1793 | 3800 | 99 | 0.40 | 80 | 0.32 | 65 | 0.26 | 45 | 0.18 |
| | 1888 | 4000 | 109 | 0.44 | 90 | 0.36 | 72 | 0.29 | 52 | 0.21 |
| | 1982 | 4200 | 122 | 0.49 | 99 | 0.40 | 82 | 0.33 | 60 | 0.24 |
| | 2076 | 4400 | 134 | 0.54 | 109 | 0.44 | 92 | 0.37 | 67 | 0.27 |
| | 2171 | 4600 | 149 | 0.60 | 122 | 0.49 | 104 | 0.42 | 77 | 0.31 |
| | 2265 | 4800 | 162 | 0.65 | 132 | 0.53 | 114 | 0.46 | 87 | 0.35 |
| 150 Models | 2360 | 5000 | 172 | 0.69 | 144 | 0.58 | 124 | 0.50 | 97 | 0.39 |
| | 2454 | 5200 | 186 | 0.75 | 154 | 0.62 | 134 | 0.54 | 107 | 0.43 |
| | 1982 | 4200 | 55 | 0.22 | 47 | 0.19 | 40 | 0.16 | 25 | 0.10 |
| | 2076 | 4400 | 70 | 0.28 | 60 | 0.24 | 50 | 0.20 | 30 | 0.12 |
| | 2171 | 4600 | 85 | 0.34 | 72 | 0.29 | 60 | 0.24 | 37 | 0.15 |
| | 2265 | 4800 | 99 | 0.40 | 85 | 0.34 | 72 | 0.29 | 47 | 0.19 |
| | 2360 | 5000 | 114 | 0.46 | 97 | 0.39 | 85 | 0.34 | 57 | 0.23 |
| | 2454 | 5200 | 129 | 0.52 | 109 | 0.44 | 97 | 0.39 | 67 | 0.27 |
| | 2548 | 5400 | 144 | 0.58 | 122 | 0.49 | 107 | 0.43 | 77 | 0.31 |
| 2643 | 5600 | 159 | 0.64 | 134 | 0.54 | 117 | 0.47 | 87 | 0.35 | |
| 2737 | 5800 | 174 | 0.70 | 147 | 0.59 | 127 | 0.51 | 97 | 0.39 | |

CEILING DIFFUSER AIR THROW DATA

| Model No. | Air Volume | | ¹ Effective Throw Range | | | |
|-----------------|------------|---------|------------------------------------|---------|------------|---------|
| | | | RTD11 Step-Down | | FD11 Flush | |
| | L/s | cfm | m | ft. | m | ft. |
| 092 Models | 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 |
| 102, 120 Models | 1700 | 3600 | 8 - 10 | 25 - 33 | 7 - 9 | 22 - 29 |
| | 1795 | 3800 | 8 - 11 | 27 - 35 | 7 - 9 | 22 - 30 |
| | 1890 | 4000 | 9 - 11 | 29 - 37 | 7 - 10 | 24 - 33 |
| | 1980 | 4200 | 10 - 12 | 32 - 40 | 8 - 11 | 26 - 35 |
| | 2075 | 4400 | 10 - 13 | 34 - 42 | 9 - 11 | 28 - 37 |
| 150 Models | 2645 | 5600 | 12 - 15 | 39 - 49 | 9 - 11 | 28 - 37 |
| | 2735 | 5800 | 13 - 16 | 42 - 51 | 9 - 12 | 29 - 38 |
| | 2830 | 6000 | 13 - 17 | 44 - 54 | 12 - 15 | 40 - 50 |
| | 2925 | 6200 | 14 - 17 | 45 - 55 | 13 - 16 | 42 - 51 |
| | 3020 | 6400 | 14 - 17 | 46 - 55 | 13 - 16 | 43 - 52 |
| 3115 | 6600 | 14 - 17 | 47 - 56 | 14 - 17 | 45 - 56 | |

¹ Throw is the horizontal or vertical distance an air stream travels on leaving the outlet or diffuser before the maximum velocity is reduced to 15 m (50 ft.) per minute. Four sides open.

ELECTRICAL/ELECTRIC HEAT DATA

| | | ZCA092S4 | | | ZCA102S4 | | |
|--|---|----------|-----|-----|----------|-----|-----|
| ¹ Voltage - 50Hz 3 Phase with neutral | | 380/420V | | | 380/420V | | |
| Compressor 1 | Rated Load Amps | 8 | | | 8 | | |
| | Locked Rotor Amps | 59 | | | 59 | | |
| Compressor 2 | Rated Load Amps | 4 | | | 5.5 | | |
| | Locked Rotor Amps | 31 | | | 37 | | |
| Outdoor Fan Motors (2) | Full Load Amps | 1.3 | | | 1.3 | | |
| | (total) | (2.6) | | | (2.6) | | |
| Power Exhaust (2) 0.33 kW (0.5 hp) | Full Load Amps | 1.7 | | | 1.7 | | |
| | | (3.4) | | | (3.4) | | |
| Indoor Blower Motor | kW | 1.5 | 2.2 | 3.7 | 1.5 | 2.2 | 3.7 |
| | Full Load Amps | 3.6 | 5.3 | 8.2 | 3.6 | 5.3 | 8.2 |
| ² Maximum Overcurrent Protection | Unit Only | 25 | 25 | 30 | 25 | 30 | 30 |
| | With (2) 0.33 kW (0.5 hp) Power Exhaust | 30 | 30 | 35 | 30 | 30 | 35 |
| ³ Minimum Circuit Ampacity | Unit Only | 21 | 22 | 25 | 22 | 24 | 27 |
| | With (2) 0.33 kW (0.5 hp) Power Exhaust | 24 | 26 | 29 | 26 | 27 | 28 |

ELECTRIC HEAT DATA

| Electric Heat Voltage | | | 420V | 420V | 420V | 420V | 420V | 420V |
|--|--|---------|------|------|------|------|------|------|
| ² Maximum Overcurrent Protection | Unit+ ⁴ Electric Heat | 5.7 kW | 25 | 25 | 30 | 25 | 30 | 30 |
| | | 11.5 kW | 25 | 30 | 30 | 25 | 30 | 30 |
| | | 17.2 kW | 35 | 40 | 40 | 35 | 40 | 40 |
| | | 23 kW | 45 | 50 | 50 | 45 | 50 | 50 |
| | | 34.5 kW | 70 | 70 | 70 | 70 | 70 | 70 |
| ³ Minimum Circuit Ampacity | Unit+ ⁴ Electric Heat | 5.7 kW | 21 | 22 | 25 | 22 | 24 | 27 |
| | | 11.5 kW | 25 | 27 | 30 | 25 | 27 | 30 |
| | | 17.2 kW | 35 | 37 | 40 | 35 | 37 | 40 |
| | | 23 kW | 44 | 47 | 50 | 44 | 47 | 50 |
| | | 34.5 kW | 64 | 66 | 70 | 64 | 66 | 70 |
| ² Maximum Overcurrent Protection | Unit+ ⁴ Electric Heat and (2) 0.33 kW (0.5 hp) Power Exhaust | 5.7 kW | 30 | 30 | 35 | 30 | 30 | 35 |
| | | 11.5 kW | 30 | 35 | 35 | 30 | 35 | 35 |
| | | 17.2 kW | 40 | 45 | 45 | 40 | 45 | 45 |
| | | 23 kW | 50 | 60 | 60 | 50 | 60 | 60 |
| | | 34.5 kW | 70 | 80 | 80 | 70 | 80 | 80 |
| ³ Minimum Circuit Ampacity | Unit+ ⁴ Electric Heat and (2) 0.33 kW (0.5 hp) Power Exhaust | 5.7 kW | 24 | 26 | 29 | 26 | 27 | 30 |
| | | 11.5 kW | 29 | 31 | 35 | 29 | 31 | 35 |
| | | 17.2 kW | 39 | 41 | 45 | 39 | 41 | 45 |
| | | 23 kW | 49 | 51 | 54 | 49 | 51 | 54 |
| | | 34.5 kW | 68 | 71 | 74 | 68 | 71 | 74 |

ELECTRIC HEAT ACCESSORIES

| | | | | | | | |
|-----------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Unit Fuse Block | Unit Only | 10Z39 | 10Z39 | 10Z39 | 10Z39 | 10Z39 | 10Z39 |
| | Unit + Power Exhaust | 10Z39 | 10Z39 | 10Z40 | 10Z39 | 10Z39 | 10Z40 |

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

² Heating / Air Conditioning / Refrigeration (HACR) type breaker or fuse.

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

⁴ Nominal kW based on 420V-3ph-50hz.

ELECTRICAL/ELECTRIC HEAT DATA

| | | ZCA120S4 | | | ZCA150S4 | | |
|--|---|----------|-----|-----|----------|-----|-----|
| ¹ Voltage - 50hz 3 Phase with neutral | | 380/420V | | | 380/420V | | |
| Compressor 1 | Rated Load Amps | 8 | | | 8 | | |
| | Locked Rotor Amps | 59 | | | 67.1 | | |
| Compressor 2 | Rated Load Amps | 8 | | | 8 | | |
| | Locked Rotor Amps | 59 | | | 67.1 | | |
| Outdoor Fan Motors (2) | Full Load Amps | 1.3 | | | 1.5 | | |
| | (total) | (2.6) | | | (3) | | |
| Power Exhaust (2) 0.33 kW (0.5 hp) | Full Load Amps | 1.7 | | | 1.7 | | |
| | | (3.4) | | | (3.4) | | |
| Indoor Blower Motor | kW | 1.5 | 2.2 | 3.7 | 1.5 | 2.2 | 3.7 |
| | Full Load Amps | 3.6 | 5.3 | 8.2 | 3.6 | 5.3 | 8.2 |
| ² Maximum Overcurrent Protection | Unit Only | 30 | 30 | 35 | 30 | 30 | 35 |
| | With (2) 0.33 kW (0.5 hp) Power Exhaust | 30 | 35 | 40 | 35 | 35 | 40 |
| ³ Minimum Circuit Ampacity | Unit Only | 25 | 26 | 29 | 25 | 27 | 30 |
| | With (2) 0.33 kW (0.5 hp) Power Exhaust | 28 | 30 | 40 | 28 | 30 | 33 |

ELECTRIC HEAT DATA

| Electric Heat Voltage | | | 420V | 420V | 420V | 420V | 420V | 420V |
|---|--|---------|------|------|------|------|------|------|
| ² Maximum Overcurrent Protection | Unit+ ⁴ Electric Heat | 11.5 kW | 30 | 30 | 35 | 30 | 30 | 35 |
| | | 17.2 kW | 35 | 40 | 40 | 35 | 40 | 40 |
| | | 23 kW | 45 | 50 | 50 | 45 | 50 | 50 |
| | | 34.5 kW | 70 | 70 | 70 | 70 | 70 | 70 |
| | | 45.9 kW | 70 | 70 | 80 | 70 | 70 | 80 |
| ³ Minimum Circuit Ampacity | Unit+ ⁴ Electric Heat | 11.5 kW | 25 | 27 | 30 | 25 | 27 | 30 |
| | | 17.2 kW | 35 | 37 | 40 | 35 | 37 | 40 |
| | | 23 kW | 44 | 47 | 50 | 44 | 47 | 50 |
| | | 34.5 kW | 64 | 66 | 70 | 64 | 66 | 70 |
| | | 45.9 kW | 68 | 70 | 74 | 68 | 70 | 74 |
| ² Maximum Overcurrent Protection | Unit+ ⁴ Electric Heat and (2) 0.33 kW (0.5 hp) Power Exhaust | 11.5 kW | 35 | 35 | 40 | 35 | 35 | 40 |
| | | 17.2 kW | 40 | 45 | 45 | 40 | 45 | 45 |
| | | 23 kW | 50 | 60 | 60 | 50 | 60 | 60 |
| | | 34.5 kW | 70 | 80 | 80 | 70 | 80 | 80 |
| | | 45.9 kW | 80 | 80 | 80 | 80 | 80 | 80 |
| ³ Minimum Circuit Ampacity | Unit+ ⁴ Electric Heat and (2) 0.33 kW (0.5 hp) Power Exhaust | 11.5 kW | 29 | 31 | 35 | 29 | 31 | 35 |
| | | 17.2 kW | 39 | 41 | 45 | 39 | 41 | 45 |
| | | 23 kW | 49 | 51 | 54 | 49 | 51 | 54 |
| | | 34.5 kW | 68 | 71 | 74 | 68 | 71 | 74 |
| | | 45.9 kW | 72 | 75 | 78 | 72 | 75 | 78 |

ELECTRIC HEAT ACCESSORIES

| | | | | | | | |
|-----------------|----------------------|-------|-------|-------|-------|-------|-------|
| Unit Fuse Block | Unit Only | 10Z39 | 10Z39 | 10Z40 | 10Z39 | 10Z39 | 10Z40 |
| | Unit + Power Exhaust | 10Z40 | 10Z40 | 10Z40 | 10Z40 | 10Z40 | 10Z40 |

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

² Heating / Air Conditioning / Refrigeration (HACR) type breaker or fuse.

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

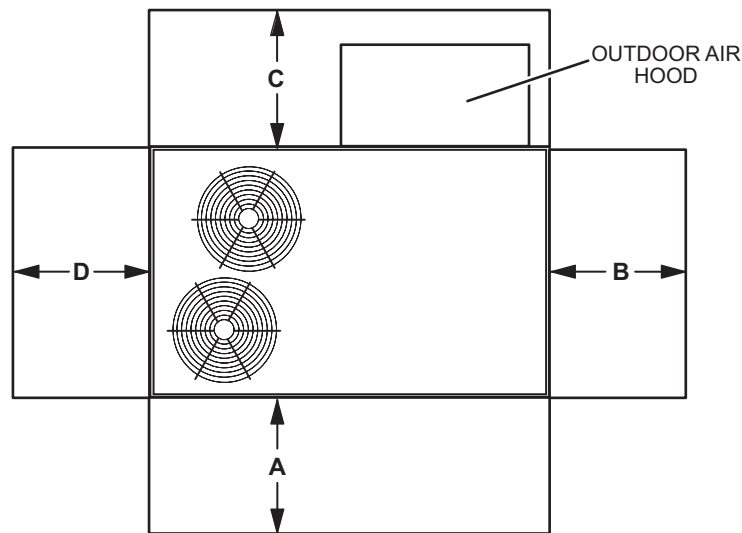
⁴ Nominal kW based on 420V-3ph-50hz.

ELECTRIC HEAT CAPACITIES

| Volts Input | 5.7 kW | | | 11.5 kW | | | 17.2 kW | | | 23 kW | | | 34.5 kW | | | 45.9 kW | | |
|-------------|----------|-------------|---------------|----------|-------------|---------------|----------|-------------|---------------|----------|-------------|---------------|----------|-------------|---------------|----------|-------------|---------------|
| | kW Input | Btuh Output | No. of Stages | kW Input | Btuh Output | No. of Stages | kW Input | Btuh Output | No. of Stages | kW Input | Btuh Output | No. of Stages | kW Input | Btuh Output | No. of Stages | kW Input | Btuh Output | No. of Stages |
| 380 | 4.7 | 16 000 | 1 | 9.4 | 32 100 | 1 | 14.1 | 48 200 | 1 | 18.8 | 64 200 | 2 | 28.2 | 96 300 | 2 | 37.6 | 128 400 | 2 |
| 400 | 5.2 | 17 800 | 1 | 10.4 | 35 500 | 1 | 15.6 | 53 300 | 1 | 20.9 | 71 400 | 2 | 31.2 | 106 600 | 2 | 41.6 | 142 100 | 2 |
| 420 | 5.7 | 19 500 | 1 | 11.5 | 39 300 | 1 | 17.2 | 58 700 | 1 | 23 | 78 500 | 2 | 34.5 | 117 500 | 2 | 45.9 | 156 800 | 2 |

UNIT CLEARANCES

UNIT WITH ECONOMIZER



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

OUTDOOR SOUND DATA

| Unit Model Number | Octave Band Linear Sound Power Levels dB, re 10 ⁻¹² Watts - Center Frequency - Hz | | | | | | | 1 Sound Rating Number (SRN) (dBA) |
|-------------------|--|-----|-----|------|------|------|------|-----------------------------------|
| | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| 092, 102 and 120 | 72 | 74 | 79 | 80 | 76 | 70 | 63 | 84 |
| 150 | 76 | 81 | 87 | 86 | 80 | 77 | 76 | 91 |

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

WEIGHT DATA

| Model Number | Net | | Shipping | |
|---------------|-----|------|----------|------|
| | kg | lbs. | kg | lbs. |
| 092 Base Unit | 387 | 854 | 426 | 939 |
| 092 Max. Unit | 459 | 1011 | 497 | 1096 |
| 102 Base Unit | 396 | 874 | 435 | 959 |
| 102 Max. Unit | 468 | 1031 | 506 | 1116 |
| 120 Base Unit | 415 | 914 | 453 | 999 |
| 120 Max. Unit | 489 | 1078 | 528 | 1163 |
| 150 Base Unit | 455 | 1004 | 494 | 1089 |
| 150 Max. Unit | 530 | 1168 | 568 | 1253 |

OPTIONS / ACCESSORIES

| Model Number | Shipping Weight | |
|--------------|-----------------|------|
| | kg | lbs. |

CABINET

| | | |
|-----------------|----|----|
| Coil/Hail Guard | 23 | 50 |
|-----------------|----|----|

CEILING DIFFUSERS**Step-Down**

| | | |
|------------|-----|----|
| RTD11-95S | 118 | 54 |
| RTD11-135S | 135 | 61 |
| RTD11-185S | 168 | 76 |

Flush

| | | |
|-----------|-----|----|
| FD11-95S | 118 | 54 |
| FD11-135S | 135 | 61 |
| FD11-185S | 168 | 76 |

ECONOMIZER / OUTDOOR AIR / EXHAUST**Economizer**

| | | |
|--|----|----|
| Downflow with Barometric Relief Dampers and Hoods | 41 | 90 |
| Horizontal with Barometric Relief Dampers and Hoods | 43 | 95 |
| Horizontal Low Profile Barometric Relief Dampers with Hood | 4 | 8 |

Outdoor Air Dampers

| | | |
|--|----|----|
| Outdoor Air Damper Section with Hood - Automatic | 26 | 58 |
| Outdoor Air Damper Section with Hood - Manual | 23 | 50 |

Power Exhaust

| | | |
|------------|----|----|
| Downflow | 27 | 60 |
| Horizontal | 19 | 41 |

ELECTRIC HEAT

| | | |
|---------|----|----|
| 5.7 kW | 41 | 90 |
| 11.5 kW | 41 | 90 |
| 17.2 kW | 41 | 90 |
| 23 kW | 41 | 90 |
| 34.5 kW | 41 | 90 |
| 45.9 kW | 41 | 90 |

ROOF CURBS**Hybrid Roof Curbs, Downflow**

| | | |
|---------------|----|-----|
| 203 mm height | 36 | 79 |
| 356 mm height | 47 | 104 |
| 457 mm height | 54 | 120 |
| 610 mm height | 66 | 145 |

PACKAGING

| | | |
|--------------------------------------|----|-----|
| LTL Packaging (less than truck load) | 48 | 105 |
|--------------------------------------|----|-----|

DIMENSIONS

| 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. |
| 092 | 111 | 244 | 130 | 287 | 82 | 181 | 103 | 227 | 83 | 182 | 100 | 220 | 112 | 247 | 126 | 278 | 1207 | 47.5 | 1232 | 48.5 | 648 | 25.5 | 673 | 26.5 |
| 102 | 113 | 250 | 133 | 293 | 84 | 185 | 105 | 231 | 85 | 187 | 102 | 224 | 114 | 252 | 128 | 283 | 1207 | 47.5 | 1232 | 48.5 | 648 | 25.5 | 673 | 26.5 |
| 120 | 119 | 262 | 139 | 306 | 88 | 193 | 110 | 242 | 88 | 195 | 106 | 234 | 120 | 264 | 134 | 296 | 1207 | 47.5 | 1232 | 48.5 | 648 | 25.5 | 673 | 26.5 |
| 150 | 130 | 287 | 150 | 332 | 96 | 212 | 119 | 262 | 97 | 214 | 115 | 254 | 131 | 290 | 145 | 321 | 1207 | 47.5 | 1232 | 48.5 | 648 | 25.5 | 673 | 26.5 |

Base Unit - The unit with NO OPTIONS.

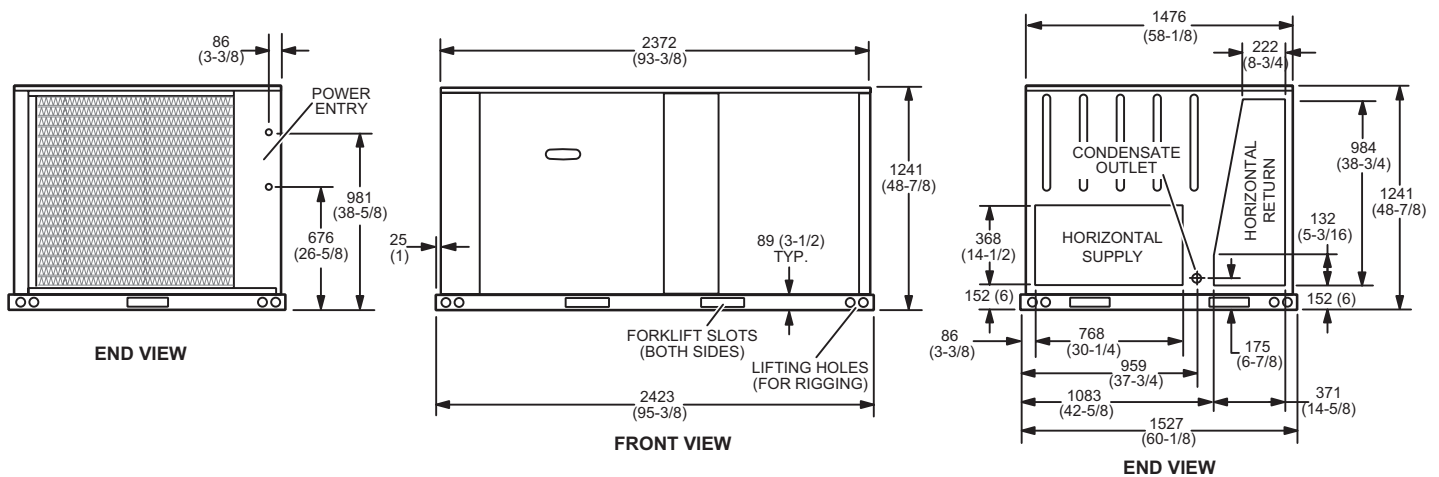
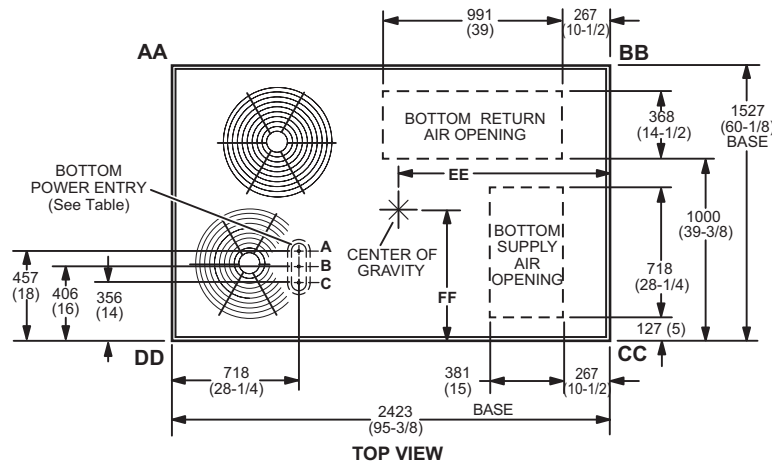
Max. Unit - The unit with ALL OPTIONS Installed. (Economizer, etc.)

BOTTOM POWER ENTRY

Holes required for Optional Bottom Power Entry Kit

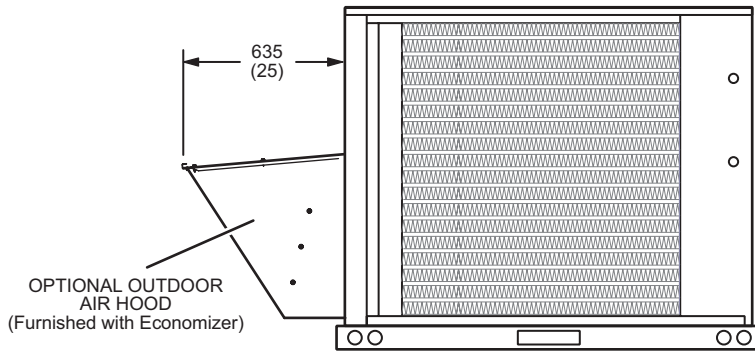
| | Threaded Conduit Fittings (Provided in Kit) | Wire Use | Hole Diameter Required in Unit Base (Max.) |
|----------|---|----------|--|
| A | ¹ 1/2 in. | ACC | 23 (7/8) |
| B | 1/2 in. | 24V | 23 (7/8) |
| C | 1-1/4 in. | POWER | 44 (1-3/4) |

¹ Field provided.

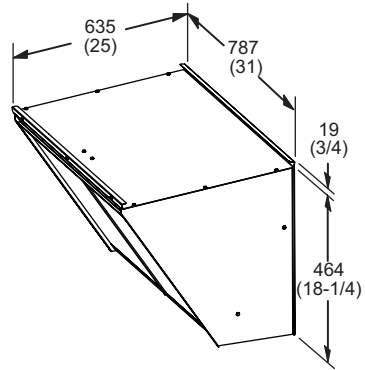


ACCESSORY DIMENSIONS

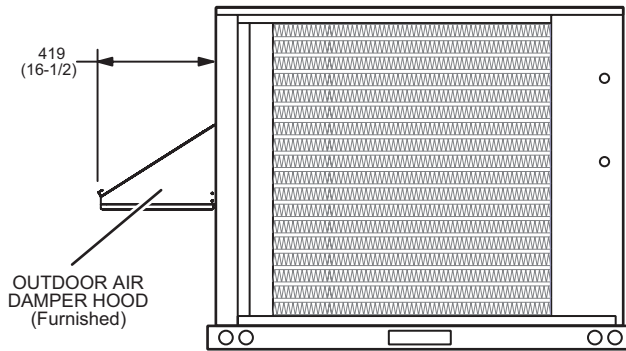
OUTDOOR AIR HOOD DETAIL FOR OPTIONAL DOWNFLOW ECONOMIZER (Downflow Applications)



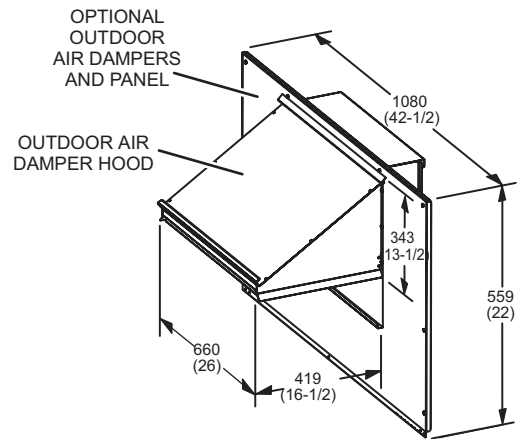
END VIEW



OUTDOOR AIR DAMPER HOOD DETAIL FOR OPTIONAL MANUAL OR MOTORIZED OUTDOOR AIR DAMPERS (Downflow or Horizontal Applications)

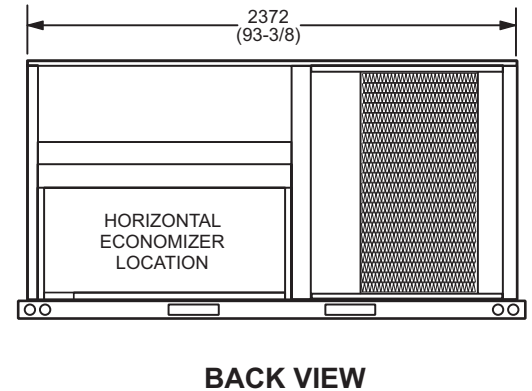
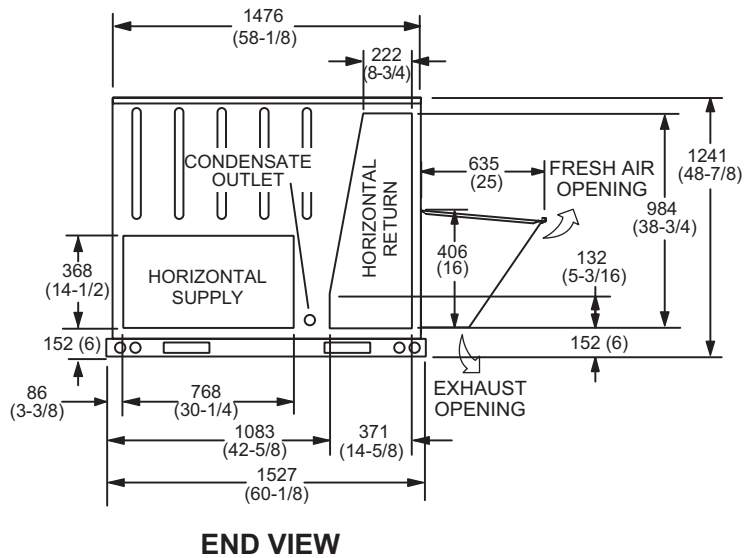
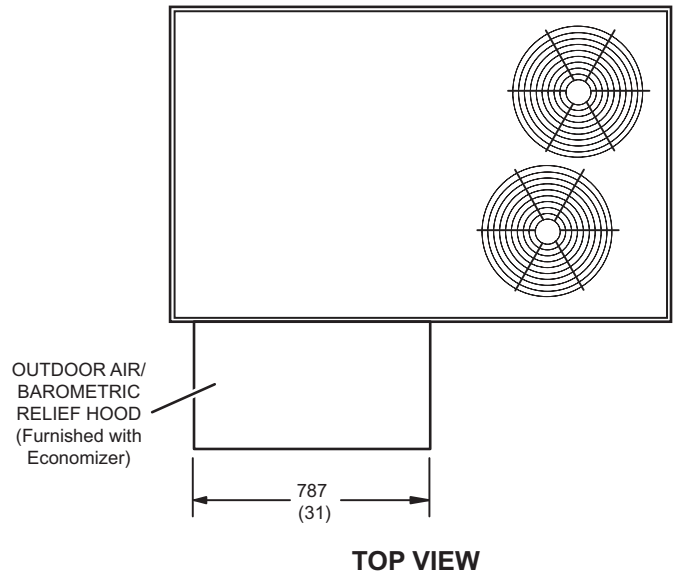


END VIEW



ACCESSORY DIMENSIONS

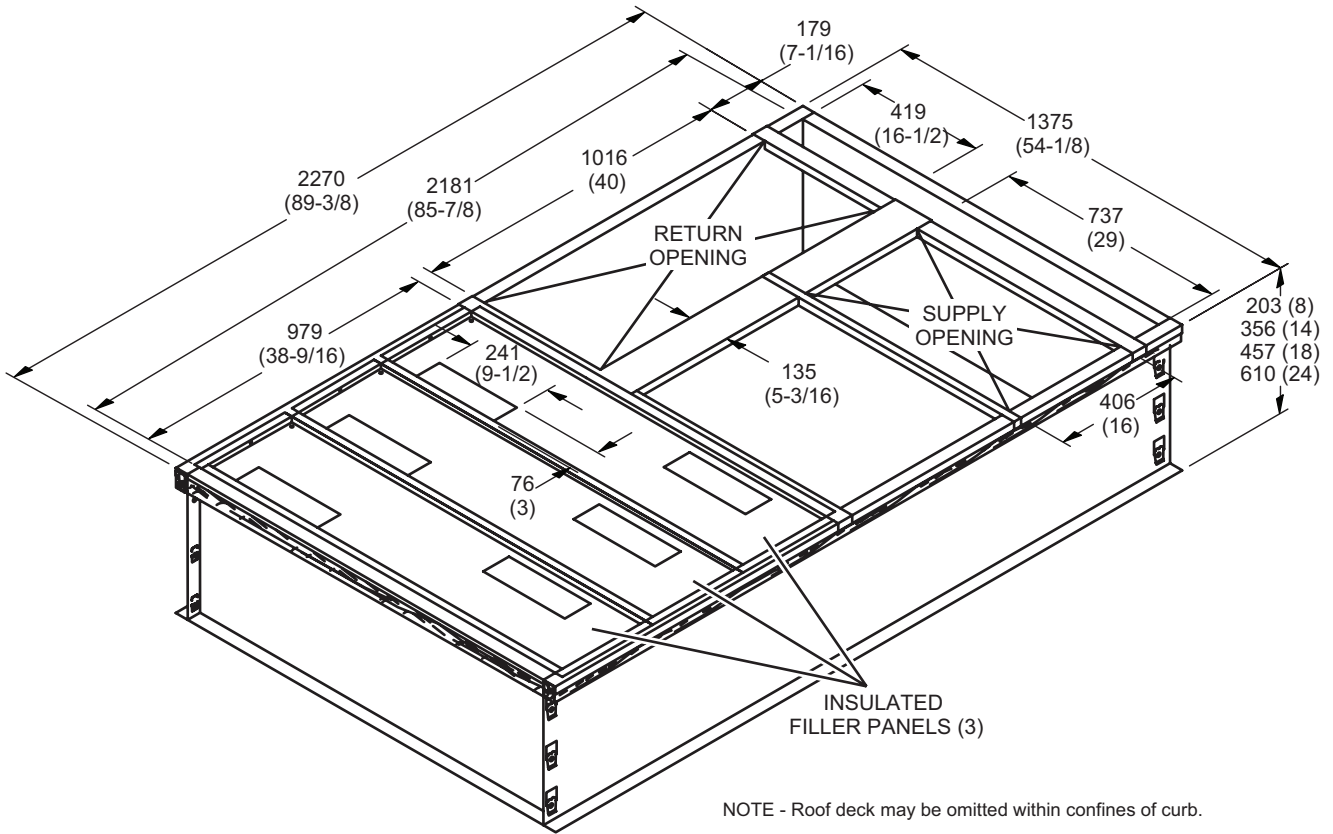
OUTDOOR AIR HOOD DETAIL WITH OPTIONAL HORIZONTAL ECONOMIZER AND BAROMETRIC RELIEF DAMPERS (Horizontal Applications)



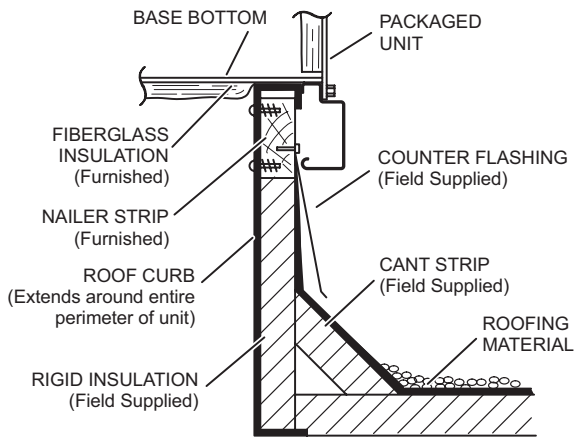
Note - Supply and Return Air Ducts must be supported.

ACCESSORY DIMENSIONS

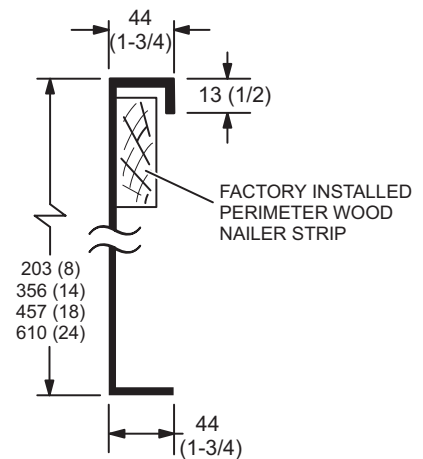
HYBRID CURBS - DOUBLE DUCT OPENING



TYPICAL FLASHING DETAIL FOR ROOF CURB



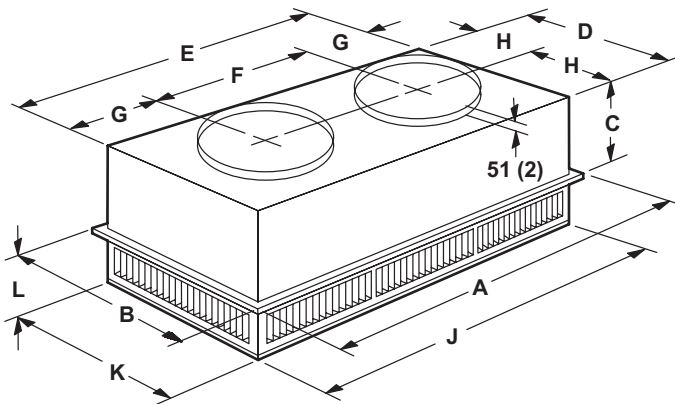
DETAIL ROOF CURB



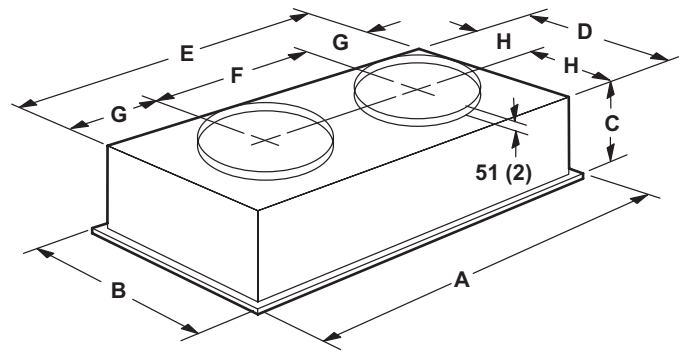
ACCESSORY DIMENSIONS

COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER



FLUSH CEILING DIFFUSER



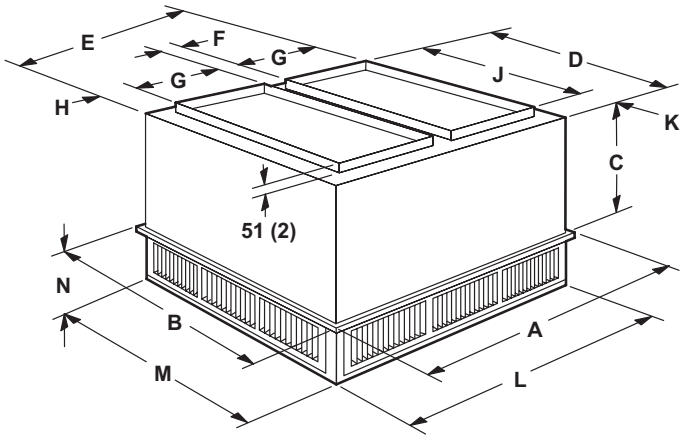
| Model Number | | RTD11-95S |
|--------------|-----|-----------|
| A | mm | 1159 |
| | in. | 47-5/8 |
| B | mm | 752 |
| | in. | 29-5/8 |
| C | mm | 365 |
| | in. | 14-3/8 |
| D | mm | 699 |
| | in. | 27-1/2 |
| E | mm | 1158 |
| | in. | 45-1/2 |
| F | mm | 572 |
| | in. | 22-1/2 |
| G | mm | 292 |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

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

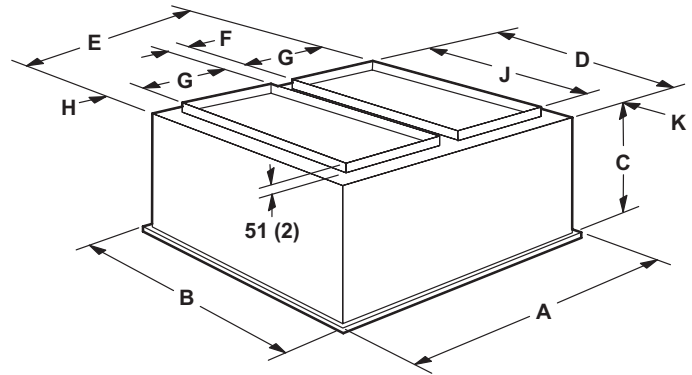
ACCESSORY DIMENSIONS

COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER



FLUSH CEILING DIFFUSER



| Model Number | | RTD11-135S | RTD11-185S |
|--------------|-----|------------|------------|
| A | mm | 1210 | 1210 |
| | in. | 47-5/8 | 47-5/8 |
| B | mm | 905 | 1210 |
| | in. | 35-5/8 | 47-5/8 |
| C | mm | 524 | 625 |
| | in. | 20-5/8 | 24-5/8 |
| D | mm | 851 | 1156 |
| | in. | 33-1/2 | 45-1/2 |
| E | mm | 45-1/2 | 45-1/2 |
| | in. | 1156 | 1156 |
| F | mm | 114 | 114 |
| | in. | 4-1/2 | 4-1/2 |
| G | mm | 457 | 457 |
| | in. | 18 | 18 |
| H | mm | 64 | 64 |
| | in. | 2-1/2 | 2-1/2 |
| J | mm | 711 | 914 |
| | in. | 28 | 36 |
| K | mm | 70 | 121 |
| | in. | 2-3/4 | 4-3/4 |
| L | mm | 1156 | 1156 |
| | in. | 45-1/2 | 45-1/2 |
| M | mm | 851 | 1156 |
| | in. | 33-1/2 | 45-1/2 |
| N | mm | 232 | 257 |
| | in. | 9-1/8 | 10-1/8 |
| Duct Size | mm | 457 x 711 | 457 x 914 |
| | in. | 18 x 28 | 18 x 36 |

| Model Number | | FD11-135S | FD11-185S |
|--------------|-----|-----------|-----------|
| A | mm | 1210 | 1210 |
| | in. | 47-5/8 | 47-5/8 |
| B | mm | 905 | 1210 |
| | in. | 35-5/8 | 47-5/8 |
| C | mm | 591 | 743 |
| | in. | 23-1/4 | 29-1/4 |
| D | mm | 838 | 1143 |
| | in. | 33 | 45 |
| E | mm | 1143 | 1143 |
| | in. | 45 | 45 |
| F | mm | 114 | 114 |
| | in. | 4-1/2 | 4-1/2 |
| G | mm | 457 | 457 |
| | in. | 18 | 18 |
| H | mm | 57 | 57 |
| | in. | 2-1/4 | 2-1/4 |
| J | mm | 711 | 914 |
| | in. | 28 | 36 |
| K | mm | 64 | 114 |
| | in. | 2-1/2 | 4-1/2 |
| Duct Size | mm | 457 x 711 | 457 x 914 |
| | in. | 18 x 28 | 18 x 36 |

REVISIONS

| Sections | Description of Change |
|---------------------|--|
| Options/Accessories | Removed Healthy Climate® High Efficiency Air Filters |



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