



MAINLINE® PACKAGED GAS ELECTRIC UNITS



RGEDZT

Nominal Sizes 7.5, 8.5, 10 & 12.5 Tons
Standard VFD and optional Reheat Technology
ASHRAE 90.1-2019 Compliant Models

Manufactured for
Mainline®
HVACmainline.com



Table of Contents

Unit Features & Benefits	3-12
Model Number Identification	13
Options	14
Selection Procedure	15
General Data	16
General Data Notes	17
Heating Performance Data	18
Gross Systems Performance Data	19-22
Reheat Gross Systems Performance Data	23-26
Airflow Performance Data	27-42
Electrical Data	43-48
Dimensional Data	49-51
Field Installed Accessories	52-72
Guide Specifications	73-80
Limited Warranty	81



TIER COMPARISON

	Single-Stage Cooling	Two-Stage Cooling	2018 DOE Efficiency Standards Compliant	2023 DOE Efficiency Standards Compliant	VFD Technology	Reheat
RGEDZT		X	X	X	X	X (Optional)

RGEDZT STANDARD FEATURES INCLUDE:

- Factory charged with R-410A HFC refrigerant
- Wired and run tested
- Scroll compressors with internal line break overload and high pressure protection
- Models have a two-stage compressor
- Convertible airflow – vertical down flow or horizontal side flow
- Forkable base rails for easy handling and lifting
- Cooling operation up to 125°F ambient
- Two-stage gas heat input with direct spark ignition system, solid state furnace controls, and optimized induced draft combustion
- MicroChannel evaporator and condenser coil
- ServiceSmart package includes:
 Quick-Change Flex-Fit Rack
 Quick-Slide Blower Assembly
 Quick-Clean Drain Pan
- Overflow condensate sensor
- Diagnostics with Dual 7-Segment LED Display to meet code compliance
- One-piece top cover and base pan with drawn supply and return opening
- Two-piece control door
- ¼ turn fasteners on filter access door
- Color-coded and labeled wiring
- External lockable gauge ports
- TXV refrigerant metering system
- Solid-core liquid line filter drier
- High pressure and low pressure/loss of charge protection with built-in Smart Logic
- Insulation encapsulated throughout entire unit
- High performance belt drive motor with variable pitch pulleys and quick adjust belt system
- Variable Frequency Drive (VFD) blower is standard
- New product footprint with matching connections
- Improved factory lead times
- MERV 8 & MERV 13 filters are available as an accessory

FACTORY INSTALLED OPTIONS:

- Louvered panels
- Hinged access doors
- Stainless steel heat exchanger (20 year warranty)
- Reheat Dehumidification System
- Low ambient/freeze stat
- Powered convenience outlet
- Non-powered convenience outlet
- Unfused disconnect
- Circuit breaker
- Economizer (Title 24 and ASHRAE 90.1 2013 compliant)
- Supply and return smoke detector
- Return smoke detector
- ElectroFin® E-Coat for Microchannel Condenser Coil Coating
- Direct Digital Control (DDC)
- Comfort Alert Phase-monitor Protection
- Vertical Economizer

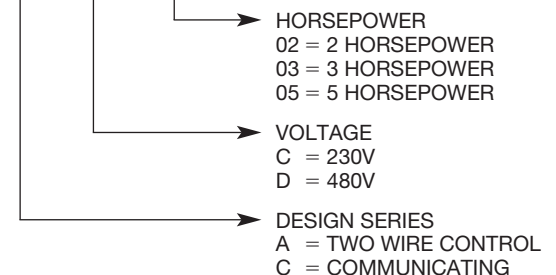
FIELD INSTALLED ACCESSORIES:

Accessory	Model Number	Factory Installation Available?
Economizer w/Single Enthalpy (Downflow)	RXRD-01MDDAM3	Yes
Economizer w/Single Enthalpy (Horizontal)	RXRD-01MDHAM3	No
Economizer-w/Single Enthalpy (Downflow) DDC	RXRD-01MDDBM3	Yes
Economizer w/Single Enthalpy (Horizontal) DDC	RXRD-01MDHBM3	No
Dual Enthalpy Kit	RXRX-BV01	No
Dual Enthalpy Kit DDC	RXRX-BV02	No
Carbon Dioxide Sensor (Wall Mount)	RXRX-AR02	No
Power Exhaust	RXRX-CDF01C	No
Power Exhaust	RXRX-CDF01D	No
Manual Fresh Air Damper	RXRF-ADA1	No
Motorized Fresh Air Damper	RXRF-ADB1	No
Motorized Fresh Air Damper (DDC)	RXRF-ADC1	No
Roofcurb, 14"	RXKG-DDD14	No
Roofcurb, 24"*	RXKG-DDD24	No
Roofcurb Adapter	RXRX-DDCAE	No
Roofcurb, 14" Welded	RXKG-SD14	No
Roofcurb, 24" Welded	RXKG-SD24	No
Concentric Diffuser 7.5/8.5 Ton Flush	RXRN-AEF2000	No
Concentric Diffuser 10.0 Ton Flush	RXRN-AEF3415	No
Concentric Diffuser 12.5 Ton Flush	RXRN-AEF3618	No
Concentric Diffuser 7.5/8.5 Ton Drop	RXRN-AED2000	No
Concentric Diffuser 10.0 Ton Drop	RXRN-AED3415	No
Concentric Diffuser 12.5 Ton Drop	RXRN-AED3618	No
Concentric Adapter 7.5/8.5 Ton Drop	RXMC-DD01	No
Concentric Adapter 10 Ton Drop	RXMC-DD02	No
Concentric Adapter 12.5 Ton Drop	RXMC-DD03	No
Outdoor Coil Louver Kit - GED-090/102/120	RXRX-ADD04A	Yes
Outdoor Coil Louver Kit - GED-150	RXRX-ADD04B	Yes
Unwired Convenience Outlet	RXRX-BN01	Yes

*Compatible with 1st generation "B" series units

Accessory	Model Number	Factory Installation Available?
Unfused Service Disconnect	RXRX-BP01	Yes
Comfort Alert (1 Per Compressor)	RXRX-AZ02	Yes
BACnet Communication Card	RXRX-AY01	No
LonWorks Communication Card	RXRX-AY02	No
Room Humidity Sensor	RHC-ZNS4	No
Room Temperature and Relative Humidity Sensor	RHC-ZNS5	No
Low-Ambient Control Kit	RXRZ-A04	Yes
Freeze Stat Kit	RXRX-AM01	Yes
LP Conversion Kit	RXGJ-FP39	No
Flue Diverter	RXRX-DFG04	No
Variable Frequency Drive Kit* *See model number break down below	RXRX-AC02	No
	RXRX-AC03	No
	RXRX-AC05	No
	RXRX-AD02	No
	RXRX-AD03	No
	RXRX-AD05	No
	RXRX-CC02	No
	RXRX-CC03	No
	RXRX-CC05	No
	RXRX-CD02	No
RXRX-CD03	No	
RXRX-CD05	No	
MERV 8 Filter 7.5-10 Ton	RXMF-M08A22020	No
MERV 8 Filter 12.5 Ton	RXMF-M08A22520	No
MERV 13 Filter 7.5-10 Ton	RXMF-M13A22020	No
MERV 13 Filter 12.5 Ton	RXMF-M13A22520	No
Smoke Detector Kit - Return	RXRX-BS03	No
Smoke Detector Kit - Return/Supply	RXRX-BS04	No
UV-C Light Kit (208/230V)	RXRX-UVC34D	No
UV-C Transformer Kit (460/575V)	RXRX-UVCTD	No

RXRX - A C 02





Cabinet and Foundation

Outwardly, the large Mainline label (1) identifies the brand to the customer. The sheet-metal cabinet (2) uses 18-gauge material for structural components with an underlying coat of G90. To ensure the leak-proof integrity of these units, the design utilizes a one-piece top with a 1/8" drip lip (3) as well as gasket-protected panels and screws. The Mainline hail guard (optional) (4) sets the standard for coil protection in the industry. Electro deposition, baked-on enamel that is tested to withstand a rigorous 1000-hour salt spray test, per ASTM B117.

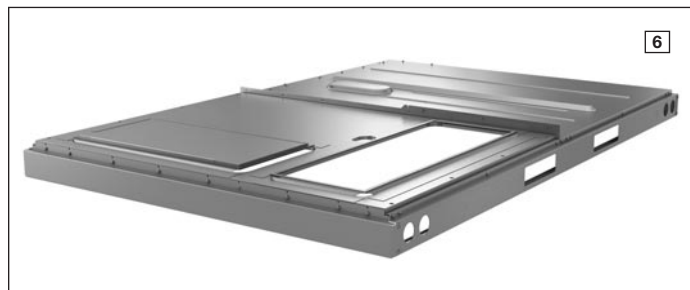
Anything built to last must start with the right foundation. Following that model, the foundation is comprised of 14-gauge, commercial-grade, full perimeter base rails (5) that integrate fork slots and rigging holes to save set-up time on the job site.

Easy Installation

The line features a new footprint that simplifies the replacement process by eliminating the need for a new curb adapter and being able to match inlet, outlet and electrical connections of the most common/industry-standard configurations.

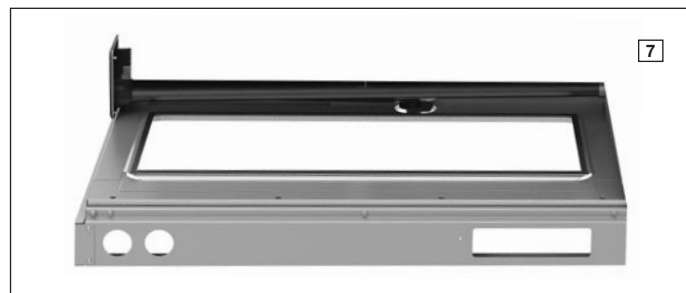
Base Pan

The base pan is stamped to form a 7/8" flange around the supply and return cover, which eliminates the worry of water entering the conditioned space (6). All insulation is secured with both adhesive and mechanical fasteners, and all edges are hidden.



Drain Pan

The Quick-Clean Drain Pan (7) is made from a composite material that resists the growth of harmful bacteria. With both side and center drain options, the drain pan slides out completely for easy cleaning. It also features a standard overflow switch.



Test Standards

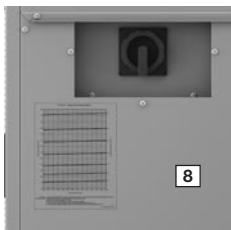
During development, each unit was tested to U.L. 1995, AHRI 340-360 as well as other Mainline-required reliability tests. Mainline adheres to stringent ISO 9002 quality procedures, and each unit bears the U.L. and AHRI certification labels located on the unit nameplate. Contractors can be assured that when a Mainline packaged unit arrives at the job, it is ready to go with a factory charge and quality checks. Each unit also proudly displays the "Made in the USA" designation.

Easy Access

All major compartments are easily accessible from the front of the unit: the electrical compartment, blower compartment, heating section, and outdoor section. Each compartment has mechanical fasteners. Panels are permanently embossed with the compartment name (e.g. control/filter access, blower access, and electric heat access). The filter compartment is accessed through a large, mechanically fastened panel. Information is readily available on the outside of the panel, with a nameplate that contains the model and serial numbers, electrical data, and other important unit information. Hinged access is available as an option for the electrical, blower, and filter compartments.

Charging Charts, Wiring Diagrams, & Labels

The unit charging chart is located on the outside of the compressor access panel. Electrical wiring diagrams are found on the control box cover, which allows contractors to move them to more readable locations. The model and serial numbers are located on the right of the control box. Having this information on the inside means easier model identification for the life of the product. The production line quality test assurance label is also placed in this location (8).



Filter Rack

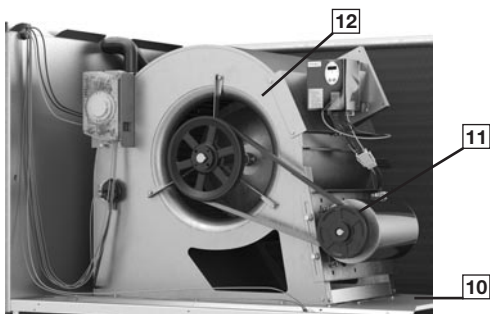
Located within the filter compartment, the Quick-Change Flex-Fit Rack (9) allows easy changeover between 2" and 4" standard size and readily available filters.



Blower Assembly

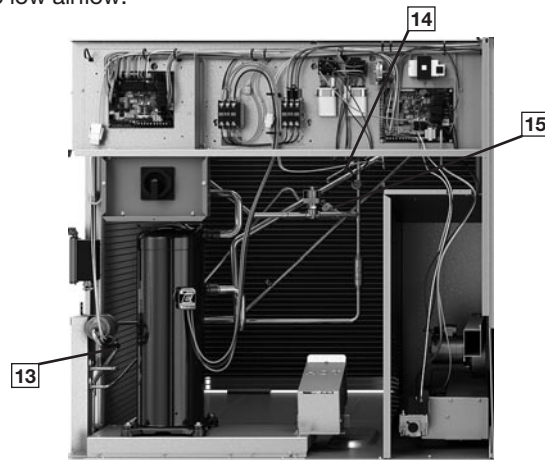
Removing three screws provides full access to the blower compartment. Inside, the Quick-Slide Blower Assembly (10) is incredibly easy to access and remove. This makes servicing internal components such as blower motor, TXV, and microchannel coil much easier. The entire assembly slides out by removing the 3/8" screws from the blower retention bracket. The adjustable motor pulley (11) can easily be adjusted by loosening the bolts on either side of the motor mount. Removing the bolts allows for easy removal of the blower pulley by pushing the blower assembly up to loosen the belt. Once the pulley is removed, the motor sheave can be adjusted to the desired number of turns, ranging from 0 to 6 turns open.

Where the demands for the job require high static, Mainline offers drives that deliver nominal airflow up to 2" of static. By referring to the airflow performance tables listed in the installation instructions, proper static pressure and CFM requirements can be dialed in. The scroll housing (12) and blower scroll provide quiet and efficient airflow. The blower sheave is secured by an "H" bushing that firmly secures the pulley to the blower shaft, resulting in years of trouble-free operation. The "H" bushing allows for easy removal of the blower pulley from the shaft. This is an improvement from a set screw, which can score the shaft and create burrs that make blower-pulley removal difficult.



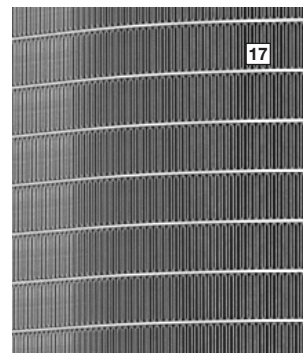
High and Low Pressure Switches & Freeze Stat

High pressure (13) and low pressure (14) switches are standard. They are located in the outdoor section along with the low-ambient control (15). The optional Freeze Stat (16) (standard on models with Direct Digital Control (DDC)), is clipped onto the suction line in the blower compartment. The low ambient control allows the compressor to operate down to 0 degrees ambient temperature by cycling the outdoor fans on high pressure. The high-pressure switch shuts off the compressors if pressures exceeding 610 PSIG are detected. The low-pressure switch shuts off the compressors if low pressure is detected due to loss of charge. Built-in Smart Logic reduces nuisance calls by only shutting off compressors after the third detection. The freeze stat protects the compressor if the evaporator coil gets too cold (below freezing) due to low airflow.



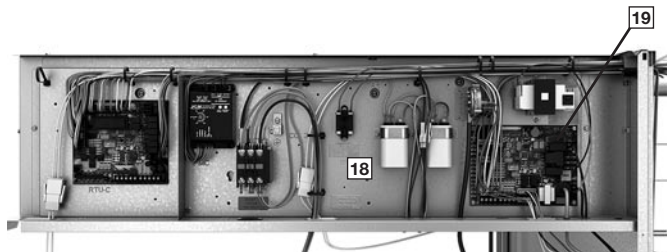
MicroChannel Evaporator & TXV

The Microchannel Evaporator (17) is accessible through the blower compartment, and through the filter rack, to simplify cleaning. The evaporator uses microchannel technology for maximum heat transfer, light weight, fewer manually brazed connections and reduced refrigerant charge. The TXV metering device maintains superheat over a wide range of varying temperatures optimizing unit performance for all conditions.



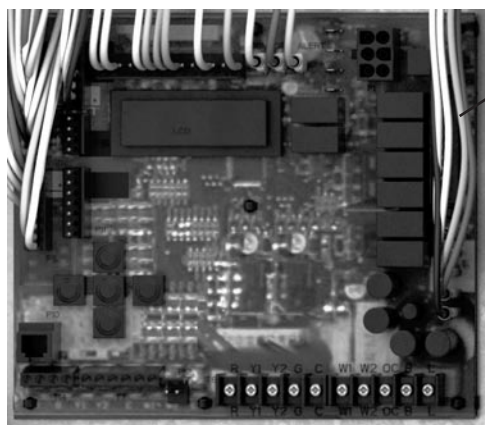
Control Box

Inside the control box (18), each electrical component is clearly labeled; that label matches the component to the wire diagram for ease of trouble shooting. All wiring is numbered on each end of the termination and is color-coded to match the wiring diagram. The integrated furnace control, incorporates the Diagnostics: Dual 7-Segment LED Display (19) with easy-to-understand fault codes. The control transformer has a low voltage circuit breaker that trips if an electrical short occurs. There is a blower contactor and compressor contactor for each compressor.



Direct Digital Control (DDC)

The optional Direct Digital Control (DDC) system consisting of a rooftop unit controller, temperature sensors, and pressure sensors, allows real-time monitoring and communication between rooftop units. The Rooftop Unit Controller (RTU-C) that is factory mounted and wired into the control panel. The RTU-C is a solid-state, microprocessor-based control board that provides flexible control and extensive diagnostics for all unit functions. The RTU-C, using proportional/integral control algorithms, performs specific unit functions that govern unit operation in response to zone conditions, system temperatures, system pressures, ambient conditions, and electrical inputs. The RTU-C features a 16 x 2 character LCD display and a five-button keypad for local configuration and direct diagnosis of the system (20). Features include a clogged filter switch (CFS), fan proving switch (FPS), return air temperature sensor (RAT), discharge air temperature sensor (DAT), and outdoor air temperature sensor (OAT). Freeze sensors (FS) are used in place of freeze stats to allow measurement of refrigerant suction line temperatures.

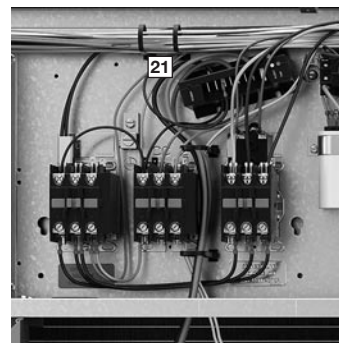


The RGEDZT Gas Electric with the RTU-C is specifically designed to be applied in four distinct applications:

- 1. BACnet Communication** — The RGEDZT is compatible with a third party building management system that supports the BACnet Application Specific Controller device profile, with the use of a field installed BACnet Communication Module. The BACnet Communication Module plugs onto the unit RTU-C controller and allows communication between the RTU-C and the BACnet MSTP network. A zone sensor, a BACnet network zone sensor, a BACnet thermostat, or DDC controller may be used to send the zone temperature or thermostat demands to the RTU-C. The BACnet Communication Module is compatible with MSTP EIA-485 daisy chain networks communicating at 38.4 bps. It is compatible with twisted pair, shielded cables.
- 2. LonWorks Communication** — The RGEDZT is compatible with a third party building management system that supports the LonMark Space Comfort Controller (SCC) functional profile or LonMark Discharge Air Controller (DAC) functional profile. This is accomplished with a field installed LonMark communication module. The LonMark Communication Module plugs onto the RTU-C controller and allows communication between the RTU-C and a LonWorks network. A zone sensor, a LonTalk network zone sensor, or a LonTalk thermostat or DDC controller may be used to send the zone temperature or thermostat demands to the RTU-C. The LonMark Communication Module utilizes an FTT-10A free topology transceiver communicating at 78.8 kbps. It is compatible with Echelon qualified, twisted pair cable, Belden 8471, or NEMA Level 4 cables. The module can communicate up to 1640 feet with no repeater. The LonWorks limit of 64 nodes per segment applies to this device.
- 3. 24V Thermostat Compatibility** — The RGEDZT is compatible with a programmable 24 volt thermostat. Connections are made via conventional thermostat screw terminals. Extensive unit status and diagnostics are displayed on the LCD screen of the RTU-C.
- 4. Zone Sensor Compatibility** — The RGEDZT is compatible with a zone sensor and a mechanical or solid state time clock connected to the RTU-C. Extensive unit status and diagnostics are displayed on the LCD screen of the RTU-C.

ComfortAlert®

A factory or field installed Comfort Alert® (21) module is available for power phase-monitoring protection and additional compressor diagnostics. The alarms can be displayed on the RTU-C display, through the (BAS) network, or connected to the “L-Terminal” of a thermostat for notification.



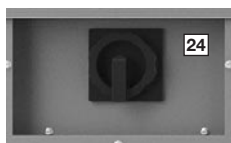
Variable Frequency Drive

The supply fan Variable Frequency Drive (VFD) (22) optimizes energy usage year round by providing a lower speed for first stage cooling operation, improving IEER's over the conventional constant fan system. Operating in the constant fan mode at the reduced speed can use as little as 1/5 of the energy of a conventional constant fan system. Also, by operating at a lower speed on first stage cooling, up to 126% more moisture is removed, improving comfort during low load operation. VFD comes standard. The VFD supply fan factory option meets California Title 24 and ASHRAE 90.1-2016 requirements for multi blower speed control. VFD also ramps up to the desired speed, reducing stress on the supply fan components and noise from a sudden inrush of air. Because the airflow is cut in half during first stage cooling and constant fan operation, noise is much less during these modes of operation.



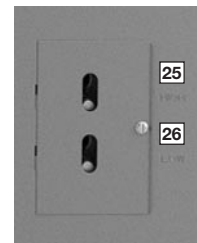
Convenience Outlet, Disconnect, & Circuit Breaker

For added convenience in the field, factory-installed options of powered and non-powered convenience outlet (23), disconnect (24) and circuit breakers are available. Low and high voltage can enter from the side or through the base. Low-voltage connections are made through the low-voltage terminal strip. For ease of access, the U.L.-required low voltage barrier can be temporarily removed for low-voltage termination and then reinstalled. The high-voltage connection is terminated at the number 1 compressor contactor. The suggested mounting for the field-installed disconnect or circuit breaker is on the exterior side of the electrical control box.



External Lockable Gauge Ports

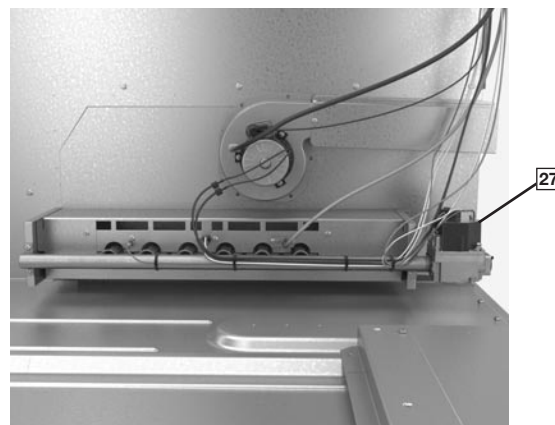
To the right left of the compressor compartment are the externally mounted lockable gauge ports. They are permanently identified by embossed lettering that identifies the compressor circuit, high pressure connection, (25) and low pressure connection (26). Because the gauge ports are mounted externally, an accurate diagnostic of system operation can be performed without removing access panels. Brass caps on the Schrader fitting ensure the gauge parts are leak proof.



Furnace & Gas Heat Exchanger

The furnace compartment contains the latest technology on the market. Each furnace is equipped with a two-stage gas valve (27) to provide two stages of gas heat input. The first stage operates at 70% of the second stage (full fire), 81% steady state efficiency is maintained. Stainless steel heat exchangers can be factory installed for those applications that have high fresh-air requirements or in applications with corrosive environments. The direct spark igniter (28) ensures reliable ignition in the most adverse conditions. This is coupled with remote flame sensor (29) so the flame is carried across the entire length of the burner assembly. Gas supply can be routed from the side or up through the base. Each furnace has the following safety devices to ensure consistent and reliable operation after ignition:

- Stainless steel heat exchanger warranty increases from 10 years to 20 years.
- Pressures switches to ensure adequate combustion airflow before ignition.
- Rollout switches to prevent obstruction or cracks in the heat exchanger.
- A limit device to protect the furnace from over-temperature problems.



Compressor

The compressor compartment houses the heart-beat of the unit. The scroll compressor (30) is known for its long life and for reliable, quiet, and efficient operation. The suction and discharge lines are designed with shock loops (31) to absorb the strain and stress that the starting torque, steady state operation, and shut-down cycle impose on the refrigerant tubing. Units have two stages of efficient cooling operation in which the first stage is approximately 50% of second stage. Each unit comes standard with a filter dryer.



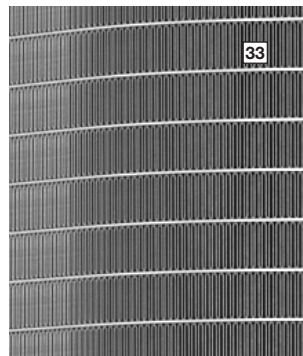
Condenser Fans

The condenser fan motors (32) can easily be accessed and maintained through the top of the unit. A down-mount fan provides corrosion protection and easy removal. The polarized plug connection allows the motor to be changed quickly and eliminates the need to snake wires through the unit.



MicroChannel Condenser Technology

The outdoor coil uses the latest microchannel technology (33) for the most effective method of heat transfer. The outdoor coil is protected by optional louvered panels, which allow unobstructed airflow while protecting the unit from both the environment and vandalism.



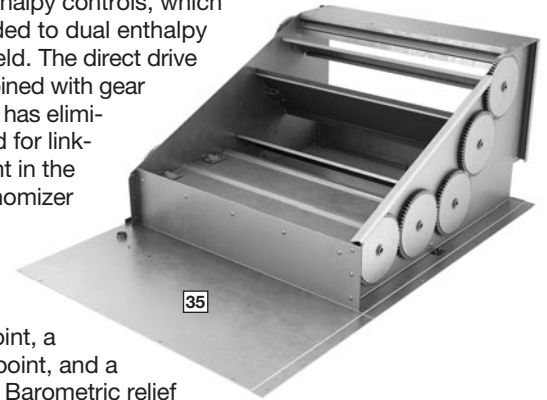
Coil Coating

Every unit offers the option of factory-applied ElectroFin® E-Coat condenser coating (34) that delivers superior corrosion resistance for outdoor coils to operate in the harshest of environments.



Economizer and Dampers

Each unit is designed for both down flow or horizontal applications (35) for job configuration flexibility. The return air compartment can also contain an economizer. Each unit is pre-wired for the economizer to allow quick, plug-in installation. Available as a factory-installed option, the economizer provides free cooling when outdoor conditions are suitable and also provides fresh air to meet local requirements. It comes standard with single enthalpy controls, which can be upgraded to dual enthalpy easily in the field. The direct drive actuator combined with gear drive dampers has eliminated the need for linkage adjustment in the field. The economizer control has a minimum position set point, an outdoor-air set point, a mixed-air set point, and a CO₂ set point. Barometric relief is standard on all economizers.



Power Exhaust is easily field-installed. The power exhaust is housed in the barometric relief opening and is easily slipped in with a plugin assembly. The wire harness to the economizer also has accommodations for a smoke detector.

The damper minimum position, actual damper position, power exhaust on/off set point, mixed air temperature limit set point, and Demand Controlled Ventilation (DCV) set point can be read and adjusted at the unit controller display or remotely through a network connection. The Space CO₂ level, mixed air temperature, and Economizer Status (free cooling available, single or dual enthalpy) can be read at the unit controller display or remotely through a network connection. Economizer faults will trigger a network alarm and can be read at the unit controller display or remotely through a network connection.

Roofcurb

The Mainline roofcurb (36) is made for tool-less assembly at the jobsite by engaging tabs in slots of adjacent curb sides, which makes the assembly process quick and easy.



REHEAT SYSTEM FEATURES

Reheat is a Mainline exclusive dehumidification packaged unit solution. It delivers maximum humidity control without compromising desired temperature set point for a high degree of comfort. Reheat maintains humidity levels at a desired set point when there's little or no demand for air conditioning. The Reheat rooftop unit is controlled by a thermostat and humidistat. The thermostat takes priority on single-stage system. When the thermostat is activated by temperatures that exceed its set point, Reheat operates like a standard rooftop unit. It can operate on first stage cooling when demand is low or at full capacity when air conditioning load is high. Unlike other rooftop or reheat units, Reheat is uniquely designed so the VFD will operate at a low speed, increasing moisture removal during first-stage cooling operation. This provides initial defense for controlling humidity. When temperature is desirable but humidity exceeds the humidistat set point, the Reheat rooftop unit initiates a dehumidification cycle using a combination of hot gas and sub-cooled liquid reheat and the VFD operates at low speed. During this cycle, the Reheat rooftop unit delivers dry, neutral air. On a two-stage system, it is possible for both a thermostat and humidistat to register readings above set point. Under this condition, the system runs in the high stage dehumidification cycle, and the VFD operates on high speed. This provides dry conditioned air.

Figure 1 shows the refrigerant path during the normal cooling mode. The liquid refrigerant leaves the TXV with the sudden pressure drop causing the liquid to expand to a vapor and absorbing the heat from the supply air going through the evaporator coil. The refrigerant vapor then travels to the compressor where it is elevated to a higher pressure and temperature. The superheated refrigerant vapor next carries the heat to the outside coil where the heat is then rejected and the refrigerant condenses into a subcooled liquid where the process repeats itself.

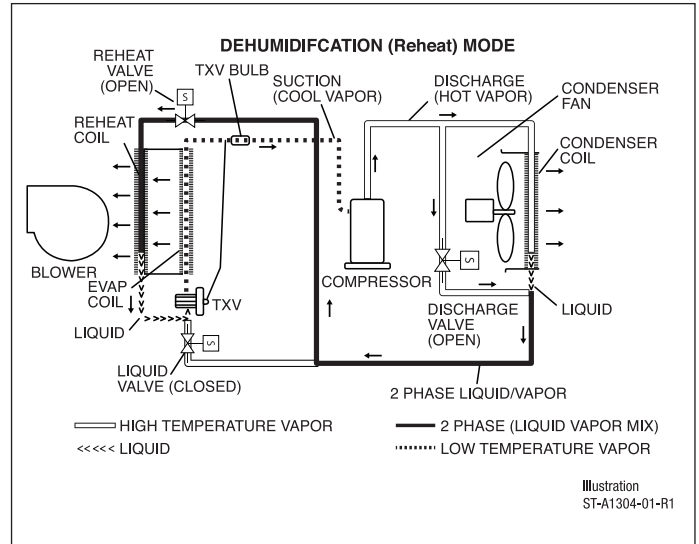
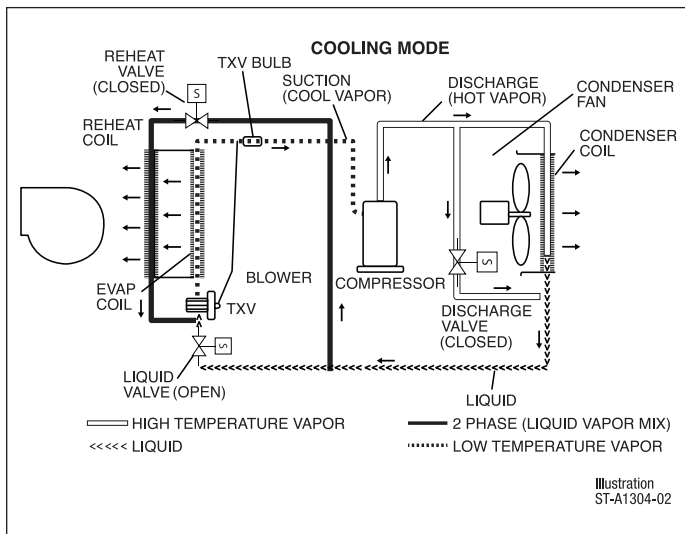


Figure 2 shows the refrigerant path during the reheat mode. When the reheat cycle is energized by the RTU-C, the reheat solenoid valve, upstream of the reheat coil opens. The liquid solenoid valve ahead of the TXV, closes. The discharge solenoid valve, in the compressor discharge line, opens. The liquid refrigerant leaves the TXV with the sudden pressure drop causing the liquid to expand to a vapor and absorbing the heat from the supply air going through the evaporator coil. The refrigerant vapor then travels to the compressor where it is elevated to a higher pressure and temperature. The refrigerant next carries the heat to a parallel path between the outside condenser coil and a bypass circuit. Some of the heat is rejected outdoors. The ratio of heat rejected outdoors versus indoors is controlled by an outdoor fan motor controller (OFMC) that monitors the two-phase temperature and varies the fan speed. This 2-phase refrigerant vapor is then sent to the reheat coil. As the refrigerant travels through the reheat coil it condenses into a subcooled liquid where the process repeats itself.

R GE D ZT 090 A C F 15 2 A A ***
1 23 4 56 789 10 11 12 13 14 15 16 17 18 19 20

1—Brand

R = Mainline

2, 3—Unit Type

GE = Packaged Gas Electric

4—Cabinet Type

D = Medium Commercial

5, 6—Series

ZT¹ = Tier 1

7, 8, 9—Capacity

090 = 7.5 ton

102 = 8.5 ton

120 = 10 ton

150 = 12.5 ton

10—Major series

A

11—Voltage

C = 3 phase 208-230/60

D = 3 phase 460/60

Y = 3 phase 575/60

12—Drive

F = Belt Drive - VFD Low

G = Belt Drive - VFD Medium

H = Belt Drive - VFD High

13, 14—Heat Capacity

15 = 150k

20 = 205k¹

22 = 225k²

15—Heat Configuration

2 = 2 stage

B = 2 stage Stainless

16—Control

A = Non communicating

B = Comfort Alert/Phase Monitor

C = Direct Digital Control (DDC)

D = Direct Digital Control (DDC)
 & Comfort Alert

17—Minor series

A

18, 19, 20—Option Code

See next page

Notes:

1. 205k heat capacity can only be selected for 7.5 ton models
2. 225k heat capacity can only be selected for 8.5 to 12.5 ton models

FACTORY INSTALLED OPTION CODES FOR RGEDZT (7.5 TO 12.5 TON)

18					19				20			
LV = Louver protection					LF = Low Ambient / Freeze Stat				EC = Economizer			
RH = Reheat ¹									SS = Supply and Return Smoke Detector			
HA = Hinged Access					NP = Non-powered Convenience Outlet				RS = Return Smoke Detector			
CC ² = Coil Coating					DC = Disconnect Switch							
Option code character highlighted below					Option code character highlighted below				Option code character highlighted below			
A	None				A	None			0	None		
B	LV				B	LF			1	EC		
C	HA				C	NP			2	RS		
D	LV	HA			D	LF	NP		3	EC	RS	
E	LV	CC			E	DC			4	SS	RS	
F	LV	HA	CC		F	LF	DC		5	EC	SS	RS
N	RH				G							
P	LV	RH			H	NP	DC					
Q	RH	HA			J							
R	LV	RH	CC		K	LF	NP	DC				
S	LV	RH	HA									
T	LV	RH	HA	CC								

¹Reheat option only available on units with F, G or H drives (VFD) and “C” or “D” control. Low ambient freeze-stat included on all reheat models; low ambient option is not selectable for this unit.

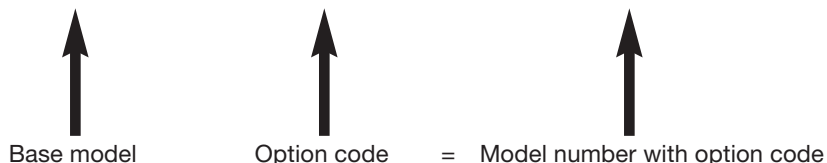
²CC-requires LV (louver protection)

Instructions for Factory Installed Option(s) Selection

Note: Three characters following the model number will be utilized to designate a factory-installed option or combination of options. If no factory option(s) is required, “AAO” follows the model number.

- **Step 1:** In the table above, based on the desired features, choose option code character from highlighted options on the left side under the number 18. For example, the option code character “E” has Louver protection and Coil Coating.
- **Step 2:** In the table above, based on the desired features, choose option code character from highlighted options on the left side under the number 19. For example, the option code character “F” has Low Ambient / Freeze Stat and Disconnect switch.
- **Step 3:** In the table above, based on the desired features, choose option code character from highlighted options on the left side under the number 20. For example, the option code character “3” has Economizer and Return Smoke.
- The resulting option code from examples above is: “EF3”
- **Step 4:** Add your option code selection to the end of model number

○ Example: RGEDZT090ACC152AA EF3 = RGEDZT090ACC152AAEF3



To select an RGEDZT Cooling and Heating unit to meet a job requirement, follow this procedure, with example, using data supplied in this specification sheet.

1. DETERMINE COOLING AND HEATING REQUIREMENTS AND SPECIFIC OPERATING CONDITIONS FROM PLANS AND SPECS.

Example:

Voltage—	208/240V – 3 Phase
Total cooling capacity—	105,000 BTUH [30.77 kW]
Sensible cooling capacity—	90,000 BTUH [26.38 kW]
Heating capacity—	159,000 BTUH [46.60 kW]
*Condenser Entering Air—	95°F [35°C] DB
*Evaporator Mixed Air Entering—	65°F [18°C] WB; 78°F [26°C] DB
*Indoor Air Flow (vertical)—	3750 CFM [1770 L/s]
*External Static Pressure—	.70 in. WG

2. SELECT UNIT TO MEET COOLING REQUIREMENTS.

Since total cooling is within the range of a nominal 10 ton [35.2 kW] unit, enter cooling performance table at 95°F [35°C] DB condenser inlet air. Interpolate between 63°F [2°C] and 67°F [19°C] to determine total and sensible capacity and power input for 65°F [18°C] WB evap inlet air at 3750 CFM [1770 L/s] indoor air flow (table basis):

Total Capacity = 120,060 BTUH [35.2 kW]
Sensible Capacity = 101,350 BTUH [29.7 kW]
Power Input (Compressor and Cond. Fans) = 8,950 watts

Use formula $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ in note ① to determine sensible capacity at 80°F [26.7°C] DB evaporator entering air:

Sensible Capacity = 101,350 BTUH [29.7 kW]

3. CORRECT CAPACITIES OF STEP 2 FOR ACTUAL AIR FLOW.

Select factors from airflow correction table at 3700 & 3800 CFM, average data [1746.2 & 1793.4 L/s] and apply to data obtained in step 2 to obtain gross capacity:

Total Capacity, $120,060 \times .99 = 118,859$ BTUH [33.6 kW]
Sensible Capacity, $101,350 \times .95 = 96,283$ BTUH [28.2 kW]
Power Input $8,950 \times 1.0 = 8,950$ Watts

These are Gross Capacities, not corrected for blower motor heat or power.

4. DETERMINE BLOWER SPEED AND WATTS TO MEET SYSTEM DESIGN.

Enter Indoor Blower performance table at 3700 & 3800 CFM, average data [1746.2 & 1793.4 L/s]. Total ESP (external static pressure) per the spec of .70 in. includes the system duct and grilles. Add from the table “Component Air Resistance,” 0.08 for wet coil, for a total selection static pressure of .780 (.8) inches of water, and determine:

RPM = 835
WATTS = 1722
DRIVE = A (belt drive, low static)

5. CALCULATE INDOOR BLOWER BTUH HEAT EFFECT FROM MOTOR WATTS, STEP 4.

$$\text{BTUH} = 1,722 \times 3.412 = 5,875$$

6. CALCULATE NET COOLING CAPACITIES, EQUAL TO GROSS CAPACITY, STEP 3, MINUS INDOOR BLOWER MOTOR HEAT.

$$\begin{aligned} \text{Net Total Capacity} &= 118,859 \text{ (step 3)} - 5,875 \text{ (step 5)} = \\ &112,984 \text{ BTUH [33.1 kW]} \\ \text{Net Sensible Capacity} &= 96,283 \text{ (step 3)} - 5,875 \text{ (step 5)} = \\ &90,408 \text{ BTUH [26.5 kW]} \end{aligned}$$

7. CALCULATE UNIT INPUT AND JOB EER.

$$\begin{aligned} \text{Total Power Input} &= 8,950 \text{ (step 3)} + 5,875 \\ &\text{(step 4)} = 10,672 \text{ Watts} \end{aligned}$$

$$\text{EER} = \frac{\text{Net Total BTUH [kW]} \text{ (step 6)}}{\text{Power Input, Watts (above)}} = \frac{112,984}{10,672} = 10.58$$

8. SELECT UNIT HEATING CAPACITY.

From Physical Data Table read that gas heating output (input rating x efficiency) is:

$$\text{Heating Capacity} = 159,000 \text{ BTUH [52.45 kW]}$$

Choose Model RGEDZT120ACA222AA

*NOTE: These operating conditions are typical of a commercial application in a 95°F/79°F [35°C/26°C] design area with indoor design of 76°F [24°C] DB and 50% RH and 10% ventilation air, with the unit roof mounted and centered on the zone it conditions by ducts.

[] Designates Metric Conversions

GENERAL DATA – (-)GEDZT MODELS – 7.5 - 12.5 TON [26.4 - 44.0 kW]

Model (-)GEDZT Series	ZT090	ZT102	ZT120	ZT150
Cooling Performance^A				
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]	148,000 [43.36]
EER	11	11	11	10.8
IEER ^B	14.6	14.6	14.6	14
Nominal CFM/AHRI Rated CFM [L/s]	3000/3175 [1416/1498]	3400/3225 [1604/1522]	4000/3480 [1888/1642]	5000/4150 [2360/1959]
AHRI Net Cooling Capacity Btu [kW]	85,000 [24.9]	96,000 [28.13]	114,000 [33.4]	142,000 [41.61]
Net Sensible Capacity Btu [kW]	62,700 [18.37]	68,300 [20.01]	79,600 [23.32]	98,600 [28.89]
Net Latent Capacity Btu [kW]	22,300 [6.53]	27,700 [8.12]	34,400 [10.08]	43,400 [12.72]
Net System Power kW	7.73	8.73	10.36	13.15
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	2/Tandem Scroll
No. Stages	2	2	2	2
Outdoor Sound Rating (dB)^C				
	88	88	88	88
Outdoor Coil - Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	0.71 [18]	0.81 [20.6]	1 [25.4]	1 [25.4]
Rows / FPI [FPcm]	25.4 [2.36]	25.6 [2.38]	25.6 [2.38]	31.5 [2.93]
	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1.26 [32]	1.26 [32]	1 [25.4]
Rows / FPI [FPcm]	11 [1.02]	10.9 [1.01]	10.9 [1.01]	13.8 [1.28]
	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	2 / 18 [7]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8500 [4011]	9000 [4247]
Motor RPM	2 at 1/5 HP	2 at 1/5 HP	2 at 1/3 HP	2 at 3/4 HP
	820	820	1075	1100
Indoor Fan - Type				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	2	2	2	2
Motor RPM	1	1	1	1
Motor Frame Size	1725	1725	1725	1725
	56	56	56	184
Filter - Type				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x25 [51x508x635]
Refrigerant Charge Oz. [g]				
	100 [2835]	122 [3458]	136 [3856]	186 [5273]
Weights				
Net Weight lbs. [kg]	839 [381]	868 [394]	896 [406]	1094 [496]
Ship Weight lbs. [kg]	878 [398]	907 [411]	935 [424]	1133 [514]

NOTE: Please look at the rating plates pasted on the side of the unit to understand the model number of your unit.
See Page 17 for Notes.

[] Designates Metric Conversions

NOTES:

- A. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to $\pm 20\%$ of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 340/360.
- B. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures. Integrated Energy Efficiency Ratio (IEER) is rated in accordance with AHRI Standard 340/360.
- C. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

RGEDZT HEATING PERFORMANCE

Model RGEDZT	Heating Input BTU [kW] (1st Stage / 2nd Stage)	Heating Output BTU [kW] (1st Stage / 2nd Stage)	Temperature Rise Range °F [°C] (1st Stage / 2nd Stage)	Steady State Efficiency (%)	No. Burners	No. Stages	Gas Connection Pipe Size In. [mm]
090A**15**A	105,000/150,000 [30.76/43.95]	85,050/121,500 [24.92/35.6]	10-40 [5.6-22.2] / 25-55 [13.9-30.6]	81	6	2	0.75 [19]
090A**20**A	143,000/205,000 [42.06/60.06]	116,200/166,050 [34.07/48.66]	20-50 [11.1-27.8] / 35-65 [19.4-36.1]	81	9	2	0.75 [19]
102A**15**A	105,000/150,000 [30.76/43.95]	85,050/121,500 [24.92/35.6]	5-35 [2.8-19.4] / 15-45 [8.3-25]	81	6	2	0.75 [19]
102A**22**A	157,500/225,000 [46.16/65.92]	127,500/182,250 [37.39/53.4]	15-45 [8.3-25] / 35-65 [19.4-36.1]	81	9	2	0.75 [19]
120A**15**A	105,000/150,000 [30.76/43.95]	85,050/121,500 [24.92/35.6]	10-40 [5.6-22.2] / 20-50 [11.1-27.8]	81	6	2	0.75 [19]
120A**22**A	157,500/225,000 [46.16/65.92]	127,500/182,250 [37.39/53.4]	15-45 [8.3-25] / 35-65 [19.4-36.1]	81	9	2	0.75 [19]
150A**15**A	105,000/150,000 [30.76/43.95]	85,050/121,500 [24.92/35.6]	5-35 [2.8-19.4] / 15-45 [8.3-25]	81	6	2	0.75 [19]
150A**22**A	157,500/225,000 [46.16/65.92]	127,500/182,250 [37.39/53.4]	10-40 [5.6-22.2] / 25-55 [13.9-30.6]	81	9	2	0.75 [19]

Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standard Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.

[] Designates Metric Conversions

COOLING PERFORMANCE DATA — RGEDZT090A

wB/E		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①												
		71°F [21.7°C]		67°F [19.4°C]		63°F [17.2°C]		61°F [16.1°C]		59°F [15.0°C]				
CFM [L/s]	DR ①	3600 [1699]	2775 [1310]	2400 [1133]	2400 [1133]	2775 [1310]	3600 [1699]	2775 [1310]	2400 [1133]	2400 [1133]	2775 [1310]	3600 [1699]	2775 [1310]	2400 [1133]
75 [23.9]	Total BTUH [kW]	119.6 [35.0]	113.5 [33.2]	110.7 [32.4]	107.0 [31.3]	104.3 [30.6]	107.8 [31.6]	102.3 [30.0]	99.8 [29.2]	98.4 [28.8]	100.9 [29.6]	105.8 [31.0]	100.4 [29.4]	97.9 [28.7]
	Sens BTUH [kW]	70.3 [20.6]	61.8 [18.1]	57.9 [17.0]	73.2 [21.4]	68.5 [20.1]	96.0 [28.1]	84.3 [24.7]	79.0 [23.2]	84.1 [24.6]	89.7 [26.3]	105.8 [31.0]	94.9 [27.8]	88.9 [26.1]
	Power	5.2	5.1	5.0	5.0	4.9	5.1	4.9	4.9	4.9	5.0	5.0	4.9	4.8
80 [26.7]	Total BTUH [kW]	116.1 [34.0]	110.1 [32.3]	107.4 [31.5]	103.6 [30.4]	101.1 [29.6]	104.3 [30.6]	99.0 [29.0]	96.5 [28.3]	95.2 [27.9]	97.6 [28.6]	102.3 [30.0]	97.1 [28.4]	94.7 [27.7]
	Sens BTUH [kW]	68.4 [20.1]	60.1 [17.6]	56.3 [16.5]	71.5 [20.9]	67.0 [19.6]	94.1 [27.6]	82.7 [24.2]	77.4 [22.7]	82.5 [24.2]	88.1 [25.8]	102.3 [30.0]	93.2 [27.3]	87.4 [25.6]
	Power	5.6	5.4	5.4	5.4	5.3	5.5	5.3	5.3	5.2	5.3	5.4	5.3	5.2
85 [29.4]	Total BTUH [kW]	112.6 [33.0]	106.8 [31.3]	104.2 [30.5]	100.3 [29.4]	97.8 [28.7]	100.8 [29.5]	95.6 [28.0]	93.3 [27.3]	91.9 [26.9]	94.2 [27.6]	98.8 [28.9]	93.7 [27.5]	91.4 [26.8]
	Sens BTUH [kW]	66.6 [19.5]	58.5 [17.1]	54.8 [16.0]	69.8 [20.5]	65.4 [19.2]	92.3 [27.0]	81.0 [23.7]	75.9 [22.2]	81.0 [23.7]	86.4 [25.3]	98.8 [28.9]	91.6 [26.8]	85.8 [25.1]
	Power	6.0	5.9	5.8	5.8	5.8	5.9	5.8	5.7	5.7	5.7	5.9	5.7	5.6
90 [32.2]	Total BTUH [kW]	109.0 [31.9]	103.4 [30.3]	100.9 [29.6]	96.9 [28.4]	94.5 [27.7]	97.2 [28.5]	92.2 [27.0]	90.0 [26.4]	88.6 [26.0]	90.9 [26.6]	95.2 [27.9]	90.3 [26.5]	88.1 [25.8]
	Sens BTUH [kW]	64.7 [19.0]	56.8 [16.7]	53.2 [15.6]	68.2 [20.0]	63.9 [18.7]	90.4 [26.5]	79.4 [23.3]	74.4 [21.8]	79.4 [23.3]	84.8 [24.8]	95.2 [27.9]	90.0 [26.4]	84.3 [24.7]
	Power	6.6	6.4	6.3	6.4	6.3	6.5	6.3	6.2	6.2	6.3	6.4	6.2	6.2
95 [35]	Total BTUH [kW]	105.4 [30.9]	100.0 [29.3]	97.5 [28.6]	93.5 [27.4]	91.2 [26.7]	93.6 [27.4]	88.8 [26.0]	86.6 [25.4]	85.3 [25.0]	87.4 [25.6]	91.6 [26.8]	86.9 [25.5]	84.8 [24.8]
	Sens BTUH [kW]	62.9 [18.4]	55.2 [16.2]	51.7 [15.2]	66.6 [19.5]	62.4 [18.3]	88.6 [26.0]	77.8 [22.8]	72.9 [21.4]	77.9 [22.8]	83.2 [24.4]	91.6 [26.8]	86.9 [25.5]	82.8 [24.3]
	Power	7.2	7.0	6.9	7.0	6.9	7.1	6.9	6.8	6.8	6.9	7.0	6.9	6.8
100 [37.8]	Total BTUH [kW]	101.7 [29.8]	96.5 [28.3]	94.2 [27.6]	90.0 [26.4]	87.8 [25.7]	90.0 [26.4]	85.4 [25.0]	83.3 [24.4]	81.9 [24.0]	84.0 [24.6]	88.0 [25.8]	83.4 [24.5]	81.4 [23.9]
	Sens BTUH [kW]	61.0 [17.9]	53.6 [15.7]	50.2 [14.7]	65.0 [19.0]	60.9 [17.8]	86.7 [25.4]	76.2 [22.3]	71.4 [20.9]	76.4 [22.4]	81.6 [23.9]	88.0 [25.8]	83.4 [24.5]	81.3 [23.8]
	Power	7.9	7.7	7.6	7.7	7.6	7.8	7.6	7.5	7.5	7.6	7.7	7.5	7.4
105 [40.6]	Total BTUH [kW]	98.1 [28.7]	93.0 [27.3]	90.7 [26.6]	86.5 [25.4]	84.4 [24.7]	86.3 [25.3]	81.9 [24.0]	79.8 [23.4]	78.5 [23.0]	80.5 [23.6]	84.3 [24.7]	79.9 [23.4]	78.0 [22.9]
	Sens BTUH [kW]	59.3 [17.4]	52.0 [15.2]	48.8 [14.3]	63.4 [18.6]	59.4 [17.4]	84.9 [24.9]	74.6 [21.9]	69.9 [20.5]	74.9 [22.0]	80.0 [23.4]	84.3 [24.7]	79.9 [23.4]	78.0 [22.9]
	Power	8.7	8.5	8.4	8.4	8.3	8.6	8.4	8.3	8.2	8.3	8.5	8.3	8.2
110 [43.3]	Total BTUH [kW]	94.3 [27.6]	89.5 [26.2]	87.3 [25.6]	83.0 [24.3]	81.0 [23.7]	82.6 [24.2]	78.3 [23.0]	76.4 [22.4]	75.1 [22.0]	76.9 [22.5]	80.5 [23.6]	76.4 [22.4]	74.5 [21.8]
	Sens BTUH [kW]	57.5 [16.8]	50.5 [14.8]	47.3 [13.9]	61.9 [18.1]	57.9 [17.0]	82.6 [24.2]	73.0 [21.4]	68.4 [20.1]	73.5 [21.5]	76.9 [22.5]	80.5 [23.6]	76.4 [22.4]	74.5 [21.8]
	Power	9.5	9.3	9.2	9.2	9.1	9.4	9.2	9.1	9.0	9.2	9.4	9.1	9.0
115 [46.1]	Total BTUH [kW]	90.6 [26.5]	85.9 [25.2]	83.8 [24.6]	79.4 [23.3]	77.5 [22.7]	78.8 [23.1]	74.8 [21.9]	72.9 [21.4]	71.6 [21.0]	73.4 [21.5]	76.8 [22.5]	72.8 [21.3]	71.1 [20.8]
	Sens BTUH [kW]	55.7 [16.3]	48.9 [14.3]	45.8 [13.4]	60.3 [17.7]	56.5 [16.6]	78.8 [23.1]	71.5 [20.9]	67.0 [19.6]	71.6 [21.0]	73.4 [21.5]	76.8 [22.5]	72.8 [21.3]	71.1 [20.8]
	Power	10.5	10.2	10.1	10.2	10.0	10.4	10.1	10.0	9.9	10.1	10.3	10.0	9.9
120 [48.9]	Total BTUH [kW]	86.8 [25.4]	82.3 [24.1]	80.3 [23.5]	75.8 [22.2]	74.0 [21.7]	75.0 [22.0]	71.1 [20.9]	69.4 [20.3]	68.1 [19.9]	69.8 [20.4]	73.0 [21.4]	69.2 [20.3]	67.5 [19.8]
	Sens BTUH [kW]	54.0 [15.8]	47.4 [13.9]	44.4 [13.0]	58.8 [17.2]	55.1 [16.1]	75.0 [22.0]	70.0 [20.5]	65.5 [19.2]	68.1 [19.9]	69.8 [20.4]	73.0 [21.4]	69.2 [20.3]	67.5 [19.8]
	Power	11.5	11.2	11.1	11.1	11.0	11.4	11.1	11.0	10.9	11.1	11.3	11.0	10.9
125 [51.7]	Total BTUH [kW]	82.9 [24.3]	78.7 [23.1]	76.8 [22.5]	72.2 [21.2]	70.4 [20.6]	71.2 [20.9]	67.5 [19.8]	65.8 [19.3]	64.5 [18.9]	66.1 [19.4]	69.1 [20.3]	65.6 [19.2]	64.0 [18.8]
	Sens BTUH [kW]	52.3 [15.3]	45.9 [13.4]	43.0 [12.6]	57.3 [16.8]	53.7 [15.7]	71.2 [20.9]	67.5 [19.8]	64.1 [18.8]	64.5 [18.9]	66.1 [19.4]	69.1 [20.3]	65.6 [19.2]	64.0 [18.8]
	Power	12.6	12.3	12.1	12.2	12.1	12.5	12.1	12.0	12.0	12.1	12.4	12.1	11.9

DR — Depression ratio
dbE — Entering air dry bulb
wB/E — Entering air wet bulb

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 - DR) x (dbE - 80)].

[] Designates Metric Conversions

Total — Total capacity x 1000 BTUH
Sens — Sensible capacity x 1000 BTUH
Power — KW input

COOLING PERFORMANCE DATA — RGEDZT102A

WDE		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①																
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			61°F [16.1°C]			59°F [15.0°C]				
CFM [L/s]	DR ①	4100 [1995]	3200 [1510]	2700 [1274]	4100 [1995]	3200 [1510]	2700 [1274]	4100 [1995]	3200 [1510]	2700 [1274]	4100 [1995]	3200 [1510]	2700 [1274]	4100 [1995]	3200 [1510]	2700 [1274]		
75 [23.9]	Total BTUH [KW] Sens BTUH [KW] Power	129.9 [38.1] 81.3 [23.8] 6.2	123.6 [36.2] 71.9 [21.1] 6.1	120.1 [35.2] 66.6 [19.5] 6.0	122.7 [36.0] 96.4 [28.2] 6.1	116.7 [34.2] 85.2 [25.0] 6.0	113.4 [33.2] 79.0 [23.1] 5.9	118.3 [34.7] 110.1 [32.3] 6.1	112.5 [33.0] 97.3 [28.5] 5.9	109.5 [32.0] 90.2 [26.4] 5.8	108.6 [31.8] 95.2 [27.9] 5.8	117.5 [34.4] 116.1 [34.0] 6.0	111.8 [32.8] 102.6 [30.1] 5.9	108.6 [31.8] 95.2 [27.9] 5.8	118.0 [34.6] 118.0 [34.6] 6.0	112.2 [32.9] 107.3 [31.5] 5.9	109.0 [32.0] 99.5 [29.2] 5.8	
80 [26.7]	Total BTUH [KW] Sens BTUH [KW] Power	125.7 [36.8] 79.2 [23.2] 6.6	119.5 [35.0] 70.0 [20.5] 6.4	116.1 [34.0] 64.9 [19.0] 6.3	118.5 [34.7] 94.3 [27.6] 6.5	112.7 [36.0] 83.3 [24.4] 6.3	109.5 [32.1] 77.2 [22.6] 6.2	114.0 [33.4] 108.0 [31.6] 6.4	108.5 [31.8] 95.4 [28.0] 6.3	105.4 [30.9] 88.5 [25.9] 6.2	104.7 [30.7] 93.4 [27.4] 6.2	113.7 [33.3] 113.3 [33.2] 6.4	107.8 [31.6] 100.8 [29.5] 6.2	105.5 [32.1] 93.4 [27.4] 6.2	113.7 [33.3] 113.7 [33.3] 6.4	108.2 [31.7] 105.5 [30.9] 6.2	105.5 [32.1] 93.4 [27.4] 6.2	
85 [29.4]	Total BTUH [KW] Sens BTUH [KW] Power	121.4 [35.6] 77.0 [22.6] 6.9	115.5 [33.8] 68.1 [20.0] 6.8	112.2 [32.9] 63.1 [18.5] 6.7	114.2 [33.5] 92.1 [27.0] 6.9	108.7 [31.8] 81.4 [23.9] 6.7	105.6 [30.9] 75.5 [22.1] 6.6	109.8 [32.2] 105.8 [31.0] 6.8	104.4 [30.6] 93.5 [27.4] 6.6	101.5 [29.7] 86.7 [25.4] 6.6	100.8 [29.5] 91.7 [26.9] 6.5	109.0 [31.9] 109.0 [31.9] 6.8	103.7 [30.4] 98.9 [29.0] 6.6	101.5 [29.7] 91.7 [26.9] 6.5	109.5 [32.1] 103.6 [30.4] 6.6	104.2 [30.5] 103.6 [30.4] 6.6	101.2 [29.7] 96.0 [28.1] 6.5	
90 [32.2]	Total BTUH [KW] Sens BTUH [KW] Power	117.1 [34.3] 74.9 [21.9] 7.4	111.4 [32.7] 66.2 [19.4] 7.2	108.3 [31.7] 61.4 [18.0] 7.1	110.0 [32.2] 89.9 [26.4] 7.3	104.6 [30.7] 79.5 [23.3] 7.1	101.6 [29.8] 73.7 [21.6] 7.0	105.5 [30.9] 103.6 [30.4] 7.2	100.4 [29.4] 91.6 [26.8] 7.1	97.5 [28.6] 84.9 [24.9] 7.0	96.8 [28.4] 89.9 [26.3] 6.9	104.8 [30.7] 104.8 [30.7] 7.2	99.7 [29.2] 97.0 [28.4] 7.0	105.2 [30.8] 105.2 [30.8] 7.2	100.1 [29.3] 100.1 [29.3] 7.0	97.3 [28.5] 94.3 [27.6] 6.9	97.3 [28.5] 94.3 [27.6] 6.9	
95 [35]	Total BTUH [KW] Sens BTUH [KW] Power	112.9 [33.1] 72.6 [21.3] 7.8	107.4 [31.5] 64.2 [18.8] 7.6	104.3 [30.6] 59.5 [17.4] 7.5	105.7 [31.0] 87.7 [25.7] 7.7	100.5 [29.5] 77.5 [22.7] 7.6	97.7 [28.6] 71.9 [21.1] 7.4	101.2 [29.7] 101.2 [29.7] 7.7	96.3 [28.2] 89.7 [26.3] 7.5	93.6 [27.4] 83.1 [24.4] 7.4	92.9 [27.2] 88.1 [25.8] 7.4	100.5 [29.4] 100.5 [29.4] 7.6	95.6 [28.0] 95.0 [27.8] 7.5	100.9 [29.6] 100.9 [29.6] 7.6	96.0 [28.1] 96.0 [28.1] 7.4	93.3 [27.3] 92.4 [27.1] 7.3	93.3 [27.3] 92.4 [27.1] 7.3	
100 [37.8]	Total BTUH [KW] Sens BTUH [KW] Power	108.6 [31.8] 70.4 [20.6] 8.3	103.3 [30.3] 62.2 [18.2] 8.1	100.4 [29.4] 57.7 [16.9] 8.0	101.4 [29.7] 85.5 [25.0] 8.2	96.5 [28.3] 75.5 [22.1] 8.0	97.0 [28.4] 70.0 [20.5] 7.9	97.0 [28.4] 97.0 [28.4] 8.2	92.2 [27.0] 87.7 [25.7] 8.0	89.6 [26.3] 81.3 [23.8] 7.8	88.9 [26.3] 86.2 [25.3] 7.8	96.2 [28.2] 96.2 [28.2] 8.1	91.5 [26.8] 91.5 [26.8] 7.9	96.7 [28.3] 96.7 [28.3] 8.1	92.0 [26.9] 92.0 [26.9] 7.9	89.3 [26.2] 89.3 [26.2] 7.8	89.3 [26.2] 89.3 [26.2] 7.8	
105 [40.6]	Total BTUH [KW] Sens BTUH [KW] Power	104.3 [30.6] 68.1 [20.0] 8.8	99.2 [29.1] 60.2 [17.6] 8.6	96.4 [28.2] 55.8 [16.4] 8.5	97.1 [28.4] 83.2 [24.4] 8.7	92.4 [27.1] 73.5 [21.5] 8.5	89.7 [26.3] 68.1 [20.0] 8.4	92.7 [27.2] 92.7 [27.2] 8.7	88.1 [25.8] 85.6 [25.1] 8.5	85.6 [25.1] 79.4 [23.3] 8.3	84.9 [24.9] 84.3 [24.7] 8.3	91.9 [26.9] 91.9 [26.9] 8.6	87.4 [25.6] 87.4 [25.6] 8.4	92.4 [27.1] 92.4 [27.1] 8.6	87.9 [25.7] 87.9 [25.7] 8.4	85.4 [25.0] 85.4 [25.0] 8.3	85.4 [25.0] 85.4 [25.0] 8.3	
110 [43.3]	Total BTUH [KW] Sens BTUH [KW] Power	99.9 [29.3] 65.8 [19.3] 9.3	95.1 [27.9] 58.1 [17.0] 9.1	92.4 [27.1] 53.9 [15.8] 9.0	92.8 [27.2] 80.8 [23.7] 9.3	88.2 [25.9] 71.4 [20.9] 9.0	85.7 [25.1] 66.2 [19.4] 8.9	88.3 [25.9] 88.3 [25.9] 9.2	84.0 [24.6] 83.6 [24.5] 9.0	81.6 [23.9] 77.5 [22.7] 8.9	80.9 [23.7] 80.9 [23.7] 8.8	87.6 [25.7] 87.6 [25.7] 9.2	83.3 [24.4] 83.3 [24.4] 9.0	88.0 [25.8] 88.0 [25.8] 9.1	83.7 [24.5] 83.7 [24.5] 8.9	81.4 [23.8] 81.4 [23.8] 8.8	81.4 [23.8] 81.4 [23.8] 8.8	
115 [46.1]	Total BTUH [KW] Sens BTUH [KW] Power	95.6 [28.0] 63.4 [18.6] 9.9	91.0 [26.7] 56.0 [16.4] 9.7	88.4 [25.9] 51.9 [15.2] 9.5	88.4 [25.9] 78.4 [23.0] 9.8	84.1 [24.7] 69.3 [20.3] 9.6	84.0 [24.6] 64.3 [18.8] 9.5	84.0 [24.6] 84.0 [24.6] 9.8	79.9 [23.4] 79.9 [23.4] 9.5	77.6 [22.8] 75.5 [22.1] 9.4	76.9 [22.5] 76.9 [22.5] 9.4	83.2 [24.4] 83.2 [24.4] 9.7	79.2 [23.2] 79.2 [23.2] 9.5	83.7 [24.5] 83.7 [24.5] 9.7	79.6 [23.3] 79.6 [23.3] 9.5	77.4 [22.7] 77.4 [22.7] 9.4	77.4 [22.7] 77.4 [22.7] 9.4	
120 [48.9]	Total BTUH [KW] Sens BTUH [KW] Power	91.3 [26.7] 61.0 [17.9] 10.5	86.8 [25.4] 53.9 [15.8] 10.3	84.4 [24.7] 50.0 [14.6] 10.1	84.1 [24.6] 76.0 [22.3] 10.5	80.0 [23.4] 67.2 [19.7] 10.2	79.6 [23.3] 62.3 [18.3] 10.1	79.6 [23.3] 79.6 [23.3] 10.4	75.8 [22.2] 75.8 [22.2] 10.1	73.6 [21.6] 73.5 [21.6] 10.0	72.9 [21.4] 72.9 [21.4] 10.0	83.2 [24.4] 83.2 [24.4] 10.4	79.2 [23.2] 79.2 [23.2] 10.1	83.7 [24.5] 83.7 [24.5] 10.3	75.5 [22.1] 75.5 [22.1] 10.1	73.3 [21.5] 73.3 [21.5] 9.9	73.3 [21.5] 73.3 [21.5] 9.9	
125 [51.7]	Total BTUH [KW] Sens BTUH [KW] Power	86.9 [25.5] 58.5 [17.1] 11.2	82.7 [24.2] 51.7 [15.2] 10.9	80.3 [23.5] 48.0 [14.1] 10.7	79.7 [23.4] 73.6 [21.6] 11.1	75.8 [22.2] 65.0 [19.1] 10.8	73.7 [21.6] 60.3 [17.7] 10.7	73.7 [21.6] 73.7 [21.6] 11.0	71.6 [21.0] 71.6 [21.0] 10.8	69.6 [20.4] 69.6 [20.4] 10.6	68.9 [20.2] 68.9 [20.2] 10.6	83.2 [24.4] 83.2 [24.4] 11.0	79.2 [23.2] 79.2 [23.2] 10.7	83.7 [24.5] 83.7 [24.5] 11.0	75.0 [22.0] 75.0 [22.0] 11.0	71.3 [20.9] 71.3 [20.9] 10.7	69.3 [20.3] 69.3 [20.3] 10.5	69.3 [20.3] 69.3 [20.3] 10.5

DR —Depression ratio
dbE —Entering air dry bulb
wbE —Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power —KW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[] Designates Metric Conversions

COOLING PERFORMANCE DATA — RGEDZT120A

wB/E CFM [L/s] DR ①		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①														
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			61°F [16.1°C]			59°F [15.0°C]		
		4800 [2265]	3750 [1770]	3200 [1510]	4800 [2265]	3750 [1770]	3200 [1510]	4800 [2265]	3750 [1770]	3200 [1510]	4800 [2265]	3750 [1770]	3200 [1510]	4800 [2265]	3750 [1770]	3200 [1510]
75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	155.3 [45.5] 97.3 [28.5] 7.5	147.8 [43.3] 86.1 [25.2] 7.3	143.8 [42.2] 80.2 [23.5] 7.2	147.8 [43.3] 115.8 [33.9] 7.4	140.7 [41.2] 102.4 [30.0] 7.2	136.9 [40.1] 95.4 [28.0] 7.1	142.8 [41.8] 132.9 [38.9] 7.3	135.8 [39.8] 117.5 [34.4] 7.1	134.7 [39.5] 124.3 [36.4] 7.1	141.5 [41.5] 140.6 [41.2] 7.2	134.7 [39.5] 115.8 [33.9] 7.0	131.1 [38.4] 115.8 [33.9] 7.0	141.4 [41.4] 141.4 [41.4] 7.2	134.5 [39.4] 130.4 [38.2] 7.0	130.9 [38.4] 121.4 [35.6] 6.9
80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	150.6 [44.1] 94.9 [27.8] 7.9	143.4 [42.0] 84.0 [24.6] 7.7	139.5 [40.9] 78.2 [22.9] 7.6	143.2 [42.0] 113.5 [33.2] 7.8	136.2 [39.9] 100.3 [29.4] 7.6	132.6 [38.9] 93.5 [27.4] 7.5	140.5 [40.5] 130.5 [38.2] 7.7	131.4 [38.5] 115.4 [33.8] 7.5	130.2 [38.2] 122.2 [35.8] 7.5	136.9 [40.1] 136.7 [40.1] 7.6	126.8 [37.1] 113.8 [33.4] 7.4	126.8 [37.1] 113.8 [33.4] 7.4	130.1 [38.1] 128.3 [37.6] 7.4	130.1 [38.1] 128.3 [37.6] 7.4	126.6 [37.1] 119.5 [35.0] 7.3
85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	146.0 [42.8] 92.5 [27.1] 8.3	138.9 [40.7] 81.8 [24.0] 8.1	135.2 [39.6] 76.2 [22.3] 8.0	138.5 [40.6] 111.0 [32.5] 8.2	131.8 [38.6] 98.2 [28.8] 8.0	128.3 [37.6] 91.5 [26.8] 7.9	135.5 [39.1] 128.1 [37.5] 8.2	127.0 [37.2] 113.3 [33.2] 8.0	125.8 [36.9] 120.1 [35.2] 7.9	132.2 [38.7] 132.2 [38.7] 8.1	122.5 [35.9] 111.9 [32.8] 7.8	122.5 [35.9] 111.9 [32.8] 7.8	125.7 [36.8] 125.7 [36.8] 8.1	125.7 [36.8] 125.7 [36.8] 8.1	122.3 [35.9] 117.5 [34.4] 7.8
90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	141.4 [41.4] 90.1 [26.4] 8.8	134.5 [39.4] 79.7 [23.3] 8.6	131.0 [38.4] 74.2 [21.7] 8.5	133.9 [39.2] 108.6 [31.8] 8.7	127.4 [37.3] 96.0 [28.1] 8.5	124.0 [36.3] 89.5 [26.2] 8.4	128.8 [37.8] 125.6 [36.8] 8.6	122.6 [35.9] 111.1 [32.6] 8.4	121.4 [35.6] 117.9 [34.5] 8.4	127.6 [37.4] 127.6 [37.4] 8.6	119.3 [35.0] 103.5 [30.3] 8.3	119.3 [35.0] 103.5 [30.3] 8.3	121.3 [35.5] 121.3 [35.5] 8.5	121.3 [35.5] 121.3 [35.5] 8.5	118.1 [34.6] 115.5 [33.8] 8.2
95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	136.8 [40.1] 87.6 [25.7] 9.3	130.2 [38.1] 77.5 [22.7] 9.1	126.7 [37.1] 72.2 [21.1] 9.0	129.3 [37.9] 106.1 [31.1] 9.2	123.0 [36.1] 93.8 [27.5] 9.0	119.7 [35.1] 87.4 [25.6] 8.9	124.2 [36.4] 123.1 [36.1] 9.1	118.2 [34.6] 108.9 [31.9] 8.9	117.0 [34.3] 115.7 [33.9] 8.9	123.0 [36.0] 123.0 [36.0] 9.1	113.9 [33.4] 107.8 [31.6] 8.8	113.9 [33.4] 107.8 [31.6] 8.8	116.9 [34.3] 116.9 [34.3] 9.1	116.9 [34.3] 116.9 [34.3] 9.1	113.8 [33.3] 113.8 [33.3] 8.7
100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	132.2 [38.7] 85.1 [24.9] 9.9	125.8 [36.9] 75.2 [22.0] 9.6	122.4 [35.9] 70.1 [20.5] 9.5	124.7 [36.5] 103.6 [30.3] 9.8	118.7 [34.8] 91.6 [26.8] 9.5	115.5 [33.8] 85.3 [25.0] 9.4	119.6 [35.1] 119.6 [35.1] 9.7	113.8 [33.4] 106.7 [31.3] 9.5	112.7 [33.0] 112.7 [33.0] 9.4	118.4 [34.7] 118.4 [34.7] 9.6	109.7 [32.1] 105.7 [31.0] 9.3	109.7 [32.1] 105.7 [31.0] 9.3	112.5 [33.0] 112.5 [33.0] 9.6	112.5 [33.0] 112.5 [33.0] 9.6	109.5 [32.1] 109.5 [32.1] 9.2
105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	127.6 [37.4] 82.5 [24.2] 10.5	121.4 [35.6] 73.0 [21.4] 10.2	118.2 [34.6] 68.0 [19.9] 10.1	120.1 [35.2] 101.0 [29.6] 10.4	114.3 [33.5] 89.3 [26.2] 10.1	111.2 [32.6] 83.2 [24.4] 10.0	115.1 [33.7] 115.1 [33.7] 10.3	109.5 [32.1] 104.4 [30.6] 10.0	108.3 [31.7] 108.3 [31.7] 10.2	113.8 [33.4] 113.8 [33.4] 10.2	105.4 [30.9] 103.6 [30.4] 9.8	105.4 [30.9] 103.6 [30.4] 9.8	108.2 [31.7] 108.2 [31.7] 10.2	108.2 [31.7] 108.2 [31.7] 10.2	105.3 [30.9] 105.3 [30.9] 9.8
110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	123.0 [36.1] 79.9 [23.4] 11.1	117.1 [34.3] 70.6 [20.7] 10.8	114.0 [33.4] 65.8 [19.3] 10.7	115.5 [33.9] 98.4 [28.8] 11.0	109.9 [32.2] 87.0 [25.5] 10.7	107.0 [31.4] 81.1 [23.8] 10.6	110.5 [32.4] 110.5 [32.4] 10.9	105.1 [30.8] 102.1 [29.9] 10.6	104.0 [30.5] 104.0 [30.5] 10.6	109.3 [32.0] 109.3 [32.0] 10.8	101.2 [29.7] 101.2 [29.7] 10.4	101.2 [29.7] 101.2 [29.7] 10.4	103.8 [30.4] 103.8 [30.4] 10.8	103.8 [30.4] 103.8 [30.4] 10.8	101.1 [29.6] 101.1 [29.6] 10.4
115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	118.5 [34.7] 77.2 [22.6] 11.7	112.7 [33.0] 68.3 [20.0] 11.4	109.7 [32.2] 63.6 [18.6] 11.3	111.0 [32.5] 95.7 [28.1] 11.6	105.6 [31.0] 84.7 [24.8] 11.3	102.8 [30.1] 78.9 [23.1] 11.2	105.9 [31.0] 105.9 [31.0] 11.5	100.8 [29.5] 99.8 [29.2] 11.2	99.6 [29.2] 99.6 [29.2] 11.2	104.7 [30.7] 104.7 [30.7] 11.5	97.0 [28.4] 97.0 [28.4] 11.1	97.0 [28.4] 97.0 [28.4] 11.1	104.6 [30.6] 104.6 [30.6] 11.4	99.5 [29.2] 99.5 [29.2] 11.2	96.8 [28.4] 96.8 [28.4] 11.0
120 [48.9]	Total BTUH [kW] Sens BTUH [kW] Power	113.9 [33.4] 74.5 [21.8] 12.4	108.4 [31.8] 65.9 [19.3] 12.1	105.5 [30.9] 61.4 [18.0] 11.9	106.5 [31.2] 93.0 [27.3] 12.3	101.3 [29.7] 82.3 [24.1] 12.0	98.6 [28.9] 76.7 [22.5] 11.8	101.4 [29.7] 101.4 [29.7] 12.2	96.5 [28.3] 96.5 [28.3] 11.9	95.3 [27.9] 95.3 [27.9] 12.1	100.2 [29.4] 100.2 [29.4] 12.1	92.8 [27.2] 92.8 [27.2] 11.7	92.8 [27.2] 92.8 [27.2] 11.7	95.2 [27.9] 95.2 [27.9] 12.1	95.2 [27.9] 95.2 [27.9] 12.1	92.6 [27.1] 92.6 [27.1] 11.7
125 [51.7]	Total BTUH [kW] Sens BTUH [kW] Power	109.4 [32.1] 71.8 [21.0] 13.1	104.1 [30.5] 63.5 [18.6] 12.8	101.3 [29.7] 59.2 [17.3] 12.6	101.9 [29.9] 90.3 [26.5] 13.0	97.0 [28.4] 79.9 [23.4] 12.7	94.4 [27.7] 74.4 [21.8] 12.5	96.9 [28.4] 96.9 [28.4] 12.9	92.2 [27.0] 92.2 [27.0] 12.6	91.0 [26.7] 91.0 [26.7] 12.5	95.6 [28.0] 95.6 [28.0] 12.9	88.6 [26.0] 88.6 [26.0] 12.4	88.6 [26.0] 88.6 [26.0] 12.4	90.9 [26.6] 90.9 [26.6] 12.8	90.9 [26.6] 90.9 [26.6] 12.8	88.5 [25.9] 88.5 [25.9] 12.5

DR — Depression ratio
dbE — Entering air dry bulb
wB/E — Entering air wet bulb

① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 - DR) x (dbE - 80)].

[] Designates Metric Conversions

Total — Total capacity x 1000 BTUH
Sens — Sensible capacity x 1000 BTUH
Power — KW input

COOLING PERFORMANCE DATA – RGEDZT150A

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
CFM [L/s]		4500 [2124]	3750 [1770]	3000 [1416]	4500 [2124]	3750 [1770]	3000 [1416]	4500 [2124]	3750 [1770]	3000 [1416]	
DR ①		0	0.01	0.09	0	0.01	0.09	0	0.01	0.09	
O U T D O O R D R Y B U L B T E M P E R A T U R E ° F [° C]	75 [23.9]	Total BTUH [kW]	179.6 [52.6]	173.3 [50.8]	167.0 [48.9]	172.2 [50.5]	166.2 [48.7]	160.2 [46.9]	167.3 [49.0]	161.4 [47.3]	155.5 [45.6]
		Sens BTUH [kW]	113.4 [33.2]	97.4 [28.5]	82.6 [24.2]	131.0 [38.4]	113.8 [33.3]	97.7 [28.6]	147.4 [43.2]	128.9 [37.8]	111.5 [32.7]
		Power	10.2	10.0	9.9	10.1	9.9	9.8	10.0	9.9	9.7
	80 [26.7]	Total BTUH [kW]	175.0 [51.3]	168.9 [49.5]	162.8 [47.7]	167.6 [49.1]	161.8 [47.4]	155.9 [45.7]	162.7 [47.7]	157.0 [46.0]	151.3 [44.3]
		Sens BTUH [kW]	110.9 [32.5]	95.3 [27.9]	80.9 [23.7]	128.5 [37.7]	111.7 [32.7]	95.9 [28.1]	144.9 [42.5]	126.8 [37.2]	109.8 [32.2]
		Power	10.6	10.4	10.3	10.5	10.4	10.2	10.4	10.3	10.1
	85 [29.4]	Total BTUH [kW]	170.5 [50.0]	164.5 [48.2]	158.5 [46.4]	163.1 [47.8]	157.4 [46.1]	151.6 [44.4]	158.1 [46.3]	152.5 [44.7]	147.0 [43.1]
		Sens BTUH [kW]	108.5 [31.8]	93.2 [27.3]	79.1 [23.2]	126.1 [36.9]	109.6 [32.1]	94.1 [27.6]	142.4 [41.7]	124.6 [36.5]	108.0 [31.6]
		Power	11.1	10.9	10.7	11.0	10.8	10.6	10.9	10.7	10.5
	90 [32.2]	Total BTUH [kW]	165.9 [48.6]	160.1 [46.9]	154.3 [45.2]	158.5 [46.4]	153.0 [44.8]	147.4 [43.2]	153.5 [45.0]	148.1 [43.4]	142.8 [41.8]
		Sens BTUH [kW]	105.8 [31.0]	91.0 [26.7]	77.2 [22.6]	123.4 [36.2]	107.4 [31.5]	92.3 [27.0]	139.7 [40.9]	122.4 [35.9]	106.2 [31.1]
		Power	11.6	11.4	11.2	11.5	11.3	11.1	11.4	11.2	11.0
95 [35]	Total BTUH [kW]	161.4 [47.3]	155.7 [45.6]	150.0 [43.9]	154.0 [45.1]	148.6 [43.5]	143.2 [42.0]	149.0 [43.7]	143.8 [42.1]	138.5 [40.6]	
	Sens BTUH [kW]	103.3 [30.3]	88.8 [26.0]	75.3 [22.1]	120.9 [35.4]	105.2 [30.8]	90.5 [26.5]	137.2 [40.2]	120.3 [35.2]	104.3 [30.6]	
	Power	12.1	11.9	11.6	12.0	11.8	11.6	11.9	11.7	11.5	
100 [37.8]	Total BTUH [kW]	156.8 [45.9]	151.3 [44.3]	145.8 [42.7]	149.4 [43.8]	144.2 [42.3]	139.0 [40.7]	144.5 [42.3]	139.4 [40.8]	134.3 [39.3]	
	Sens BTUH [kW]	100.6 [29.5]	86.5 [25.3]	73.4 [21.5]	118.2 [34.6]	102.9 [30.1]	88.6 [26.0]	134.6 [39.4]	118.0 [34.6]	102.4 [30.0]	
	Power	12.6	12.4	12.2	12.5	12.3	12.1	12.4	12.2	12.0	
105 [40.6]	Total BTUH [kW]	152.3 [44.6]	147.0 [43.1]	141.6 [41.5]	144.9 [42.5]	139.8 [41.0]	134.8 [39.5]	139.9 [41.0]	135.0 [39.6]	130.1 [38.1]	
	Sens BTUH [kW]	98.0 [28.7]	84.3 [24.7]	71.5 [20.9]	115.6 [33.9]	100.6 [29.5]	86.7 [25.4]	131.9 [38.6]	115.7 [33.9]	100.5 [29.4]	
	Power	13.2	13.0	12.7	13.1	12.9	12.6	13.0	12.8	12.5	
110 [43.3]	Total BTUH [kW]	147.8 [43.3]	142.6 [41.8]	137.4 [40.3]	140.4 [41.1]	135.5 [39.7]	130.6 [38.3]	135.4 [39.7]	130.7 [38.3]	125.9 [36.9]	
	Sens BTUH [kW]	95.3 [27.9]	82.0 [24.0]	69.6 [20.4]	112.9 [33.1]	98.4 [28.8]	84.8 [24.8]	129.2 [37.9]	113.5 [33.3]	98.6 [28.9]	
	Power	13.8	13.5	13.3	13.7	13.5	13.2	13.6	13.4	13.1	
115 [46.1]	Total BTUH [kW]	143.3 [42.0]	138.3 [40.5]	133.3 [39.1]	135.9 [39.8]	131.2 [38.4]	126.4 [37.0]	130.9 [38.4]	126.4 [37.0]	121.8 [35.7]	
	Sens BTUH [kW]	92.6 [27.1]	79.7 [23.4]	67.7 [19.8]	110.1 [32.3]	96.0 [28.1]	82.7 [24.2]	126.4 [37.0]	111.1 [32.6]	96.6 [28.3]	
	Power	14.4	14.2	13.9	14.3	14.1	13.8	14.2	14.0	13.7	

DR —Depression ratio
 dbE —Entering air dry bulb
 wbE —Entering air wet bulb

Total —Total capacity x 1000 BTUH
 Sens —Sensible capacity x 1000 BTUH
 Power —KW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA (LOW REHEAT MODE)—RGEDZT090

		ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①									
wbE		65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]			
CFM [L/s]		1800 [850]	1700 [802]	1200 [566]	1800 [850]	1700 [802]	1200 [566]	1800 [850]	1700 [802]	1200 [566]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	29.7 [8.7]	29.4 [8.6]	27.9 [8.2]	27.0 [7.9]	26.7 [7.8]	25.3 [7.4]	26.6 [7.8]	26.4 [7.7]	24.9 [7.3]
		Sens BTUH [kW]	6.5 [1.9]	6.3 [1.8]	5.4 [1.6]	9.0 [2.6]	8.7 [2.6]	7.5 [2.2]	11.4 [3.4]	11.1 [3.3]	9.6 [2.8]
		Power	3.2	3.1	3.1	3.2	3.2	3.1	3.2	3.2	3.1
	65 [18.3]	Total BTUH [kW]	29.5 [8.6]	29.2 [8.5]	27.6 [8.1]	26.7 [7.8]	26.4 [7.7]	25.0 [7.3]	26.4 [7.7]	26.1 [7.6]	24.7 [7.2]
		Sens BTUH [kW]	5.0 [1.5]	4.9 [1.4]	4.2 [1.2]	7.6 [2.2]	7.4 [2.2]	6.3 [1.9]	10.0 [2.9]	9.7 [2.9]	8.4 [2.5]
		Power	3.2	3.2	3.1	3.3	3.2	3.2	3.2	3.2	3.1
	70 [21.1]	Total BTUH [kW]	28.8 [8.4]	28.5 [8.4]	27.0 [7.9]	26.0 [7.6]	25.8 [7.6]	24.4 [7.1]	25.7 [7.5]	25.4 [7.5]	24.1 [7.1]
Sens BTUH [kW]		3.7 [1.1]	3.6 [1.0]	3.1 [0.9]	6.2 [1.8]	6.0 [1.8]	5.2 [1.5]	8.6 [2.5]	8.4 [2.5]	7.2 [2.1]	
Power		3.2	3.2	3.1	3.3	3.3	3.2	3.3	3.3	3.2	
75 [23.9]	Total BTUH [kW]	27.8 [8.1]	27.5 [8.1]	26.0 [7.6]	25.0 [7.3]	24.7 [7.2]	23.4 [6.9]	24.7 [7.2]	24.4 [7.2]	23.1 [6.8]	
	Sens BTUH [kW]	2.3 [0.7]	2.3 [0.7]	2.0 [0.6]	4.9 [1.4]	4.7 [1.4]	4.1 [1.2]	7.3 [2.1]	7.1 [2.1]	6.1 [1.8]	
	Power	3.3	3.3	3.2	3.4	3.4	3.3	3.4	3.4	3.3	
80 [26.7]	Total BTUH [kW]	26.3 [7.7]	26.0 [7.6]	24.6 [7.2]	23.5 [6.9]	23.3 [6.8]	22.1 [6.5]	23.2 [6.8]	23.0 [6.7]	21.7 [6.4]	
	Sens BTUH [kW]	1.1 [0.3]	1.0 [0.3]	0.9 [0.3]	3.6 [1.0]	3.5 [1.0]	3.0 [0.9]	6.0 [1.8]	5.9 [1.7]	5.1 [1.5]	
	Power	3.4	3.4	3.3	3.5	3.5	3.4	3.5	3.5	3.4	
85 [29.4]	Total BTUH [kW]	24.5 [7.2]	24.2 [7.1]	22.9 [6.7]	21.7 [6.4]	21.5 [6.3]	20.3 [6.0]	21.4 [6.3]	21.1 [6.2]	20.0 [5.9]	
	Sens BTUH [kW]	-0.2 [-0.1]	-0.2 [0.0]	-0.1 [0.0]	2.4 [0.7]	2.3 [0.7]	2.0 [0.6]	4.8 [1.4]	4.7 [1.4]	4.0 [1.2]	
	Power	3.6	3.6	3.5	3.7	3.6	3.6	3.6	3.6	3.5	
90 [32.2]	Total BTUH [kW]	22.2 [6.5]	22.0 [6.4]	20.8 [6.1]	19.5 [5.7]	19.3 [5.6]	18.2 [5.3]	19.1 [5.6]	18.9 [5.5]	17.9 [5.3]	
	Sens BTUH [kW]	-1.3 [-0.4]	-1.3 [-0.4]	-1.1 [-0.3]	1.2 [0.3]	1.1 [0.3]	1.0 [0.3]	3.6 [1.1]	3.5 [1.0]	3.0 [0.9]	
	Power	3.8	3.7	3.6	3.8	3.8	3.7	3.8	3.8	3.7	

GROSS SYSTEMS PERFORMANCE DATA (HIGH REHEAT MODE)—RGEDZT090

		ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①									
wbE		65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]			
CFM [L/s]		3600 [1699]	2900 [1369]	2400 [1133]	3600 [1699]	2900 [1369]	2400 [1133]	3600 [1699]	2900 [1369]	2400 [1133]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	41.7 [12.2]	39.9 [11.7]	38.7 [11.3]	40.1 [11.8]	38.4 [11.3]	37.2 [10.9]	40.0 [11.7]	38.3 [11.2]	37.1 [10.9]
		Sens BTUH [kW]	8.9 [2.6]	8.0 [2.4]	7.4 [2.2]	12.8 [3.7]	11.5 [3.4]	10.5 [3.1]	18.5 [5.4]	16.7 [4.9]	15.3 [4.5]
		Power	5.0	4.9	4.8	4.9	4.8	4.8	4.9	4.8	4.8
	70 [21.1]	Total BTUH [kW]	39.8 [11.7]	38.1 [11.2]	36.9 [10.8]	38.3 [11.2]	36.7 [10.7]	35.5 [10.4]	38.1 [11.2]	36.5 [10.7]	35.4 [10.4]
		Sens BTUH [kW]	5.9 [1.7]	5.3 [1.6]	4.9 [1.4]	9.8 [2.9]	8.8 [2.6]	8.1 [2.4]	15.5 [4.6]	14.0 [4.1]	12.8 [3.8]
		Power	5.1	5.0	4.9	5.1	5.0	4.9	5.0	4.9	4.9
	80 [26.7]	Total BTUH [kW]	36.7 [10.7]	35.1 [10.3]	34.0 [10.0]	35.1 [10.3]	33.7 [9.9]	32.6 [9.6]	35.0 [10.3]	33.5 [9.8]	32.5 [9.5]
Sens BTUH [kW]		2.1 [0.6]	1.9 [0.5]	1.7 [0.5]	5.9 [1.7]	5.3 [1.6]	4.9 [1.4]	11.7 [3.4]	10.5 [3.1]	9.6 [2.8]	
Power		5.4	5.3	5.2	5.3	5.2	5.1	5.3	5.2	5.1	
90 [32.2]	Total BTUH [kW]	32.3 [9.5]	30.9 [9.1]	30.0 [8.8]	30.8 [9.0]	29.5 [8.6]	28.5 [8.4]	30.6 [9.0]	29.3 [8.6]	28.4 [8.3]	
	Sens BTUH [kW]	-2.7 [-0.8]	-2.4 [-0.7]	-2.2 [-0.6]	1.2 [0.3]	1.0 [0.3]	1.0 [0.3]	6.9 [2.0]	6.2 [1.8]	5.7 [1.7]	
	Power	5.8	5.6	5.6	5.7	5.6	5.5	5.7	5.6	5.5	
100 [37.8]	Total BTUH [kW]	26.7 [7.8]	25.5 [7.5]	24.7 [7.3]	25.1 [7.4]	24.1 [7.1]	23.3 [6.8]	25.0 [7.3]	23.9 [7.0]	23.2 [6.8]	
	Sens BTUH [kW]	-8.3 [-2.4]	-7.4 [-2.2]	-6.8 [-2.0]	-4.4 [-1.3]	-4.0 [-1.2]	-3.7 [-1.1]	1.3 [0.4]	1.2 [0.4]	1.1 [0.3]	
	Power	6.3	6.2	6.1	6.2	6.1	6.0	6.2	6.1	6.0	
110 [43.3]	Total BTUH [kW]	19.8 [5.8]	19.0 [5.6]	18.4 [5.4]	18.3 [5.4]	17.5 [5.1]	17.0 [5.0]	18.1 [5.3]	17.4 [5.1]	16.8 [4.9]	
	Sens BTUH [kW]	-14.7 [-4.3]	-13.2 [-3.9]	-12.2 [-3.6]	-10.9 [-3.2]	-9.8 [-2.9]	-9.0 [-2.6]	-5.1 [-1.5]	-4.6 [-1.4]	-4.2 [-1.2]	
	Power	6.9	6.8	6.7	6.9	6.7	6.6	6.9	6.7	6.6	
120 [48.9]	Total BTUH [kW]	11.7 [3.4]	11.2 [3.3]	10.8 [3.2]	10.1 [3.0]	9.7 [2.8]	9.4 [2.8]	10.0 [2.9]	9.6 [2.8]	9.3 [2.7]	
	Sens BTUH [kW]	-22.1 [-6.5]	-19.8 [-5.8]	-18.2 [-5.3]	-18.2 [-5.3]	-16.4 [-4.8]	-15.1 [-4.4]	-12.5 [-3.7]	-11.2 [-3.3]	-10.3 [-3.0]	
	Power	7.8	7.6	7.5	7.7	7.5	7.4	7.7	7.5	7.4	

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power—KW input

NOTES: ① When the entering air dry bulb is other than 75°F [23.9°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 - DR) x (dbE - 80)].

[] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA (LOW REHEAT MODE)–RGEDZT102

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①												
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]			
CFM [L/s]			2100 [991]	1700 [802]	1400 [661]	2100 [991]	1700 [802]	1400 [661]	2100 [991]	1700 [802]	1400 [661]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	36.6 [10.7]	35.1 [10.3]	33.9 [9.9]	34.5 [10.1]	33.1 [9.7]	32.1 [9.4]	31.9 [9.3]	30.6 [9.0]	29.6 [8.7]	
		Sens BTUH [kW]	7.1 [2.1]	6.4 [1.9]	5.9 [1.7]	9.0 [2.6]	8.1 [2.4]	7.4 [2.2]	10.7 [3.1]	9.7 [2.8]	8.9 [2.6]	
		Power	3.9	3.8	3.7	3.8	3.8	3.7	3.8	3.8	3.7	
	65 [18.3]	Total BTUH [kW]	35.5 [10.4]	34.0 [10.0]	32.9 [9.6]	33.4 [9.8]	32.1 [9.4]	31.0 [9.1]	30.8 [9.0]	30.8 [9.0]	29.5 [8.6]	28.6 [8.4]
		Sens BTUH [kW]	6.1 [1.8]	5.5 [1.6]	5.0 [1.5]	8.0 [2.3]	7.2 [2.1]	6.6 [1.9]	9.7 [2.8]	8.7 [2.6]	8.0 [2.4]	
		Power	3.9	3.8	3.8	3.9	3.8	3.8	3.9	3.8	3.8	
	70 [21.1]	Total BTUH [kW]	34.1 [10.0]	32.7 [9.6]	31.7 [9.3]	32.1 [9.4]	30.8 [9.0]	29.8 [8.7]	29.5 [8.6]	28.3 [8.3]	27.4 [8.0]	
Sens BTUH [kW]		4.8 [1.4]	4.3 [1.3]	4.0 [1.2]	6.7 [2.0]	6.0 [1.8]	5.5 [1.6]	8.5 [2.5]	7.6 [2.2]	7.0 [2.0]		
Power		4.0	3.9	3.9	4.0	3.9	3.9	4.0	3.9	3.9		
75 [23.9]	Total BTUH [kW]	32.7 [9.6]	31.3 [9.2]	30.3 [8.9]	30.6 [9.0]	29.4 [8.6]	28.4 [8.3]	28.0 [8.2]	26.8 [7.9]	26.0 [7.6]		
	Sens BTUH [kW]	3.3 [1.0]	3.0 [0.9]	2.8 [0.8]	5.2 [1.5]	4.7 [1.4]	4.3 [1.3]	7.0 [2.0]	6.3 [1.8]	5.8 [1.7]		
	Power	4.1	4.0	4.0	4.1	4.0	4.0	4.1	4.0	4.0		
80 [26.7]	Total BTUH [kW]	31.0 [9.1]	29.7 [8.7]	28.8 [8.4]	29.0 [8.5]	27.8 [8.1]	26.9 [7.9]	26.3 [7.7]	25.2 [7.4]	24.4 [7.2]		
	Sens BTUH [kW]	1.7 [0.5]	1.5 [0.4]	1.4 [0.4]	3.6 [1.0]	3.2 [0.9]	2.9 [0.9]	5.3 [1.6]	4.8 [1.4]	4.4 [1.3]		
	Power	4.3	4.2	4.1	4.3	4.2	4.1	4.3	4.2	4.1		
85 [29.4]	Total BTUH [kW]	29.1 [8.5]	27.9 [8.2]	27.0 [7.9]	27.1 [7.9]	26.0 [7.6]	25.1 [7.4]	24.4 [7.2]	23.4 [6.9]	22.7 [6.6]		
	Sens BTUH [kW]	-0.2 [-0.1]	-0.2 [-0.1]	-0.2 [-0.1]	1.7 [0.5]	1.5 [0.4]	1.4 [0.4]	3.4 [1.0]	3.1 [0.9]	2.8 [0.8]		
	Power	4.4	4.3	4.3	4.4	4.3	4.3	4.4	4.3	4.3		
90 [32.2]	Total BTUH [kW]	27.1 [7.9]	26.0 [7.6]	25.1 [7.4]	25.0 [7.3]	24.0 [7.0]	23.2 [6.8]	22.4 [6.6]	21.5 [6.3]	20.8 [6.1]		
	Sens BTUH [kW]	-2.3 [-0.7]	-2.1 [-0.6]	-1.9 [-0.6]	-0.4 [-0.1]	-0.4 [-0.1]	-0.4 [-0.1]	1.3 [0.4]	1.2 [0.3]	1.1 [0.3]		
	Power	4.6	4.5	4.4	4.6	4.5	4.4	4.6	4.5	4.4		

GROSS SYSTEMS PERFORMANCE DATA (HIGH REHEAT MODE)–RGEDZT102

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①											
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]		
CFM [L/s]			4100 [1935]	2900 [1369]	2700 [1274]	4100 [1935]	2900 [1369]	2700 [1274]	4100 [1935]	2900 [1369]	2700 [1274]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	57.6 [16.9]	53.6 [15.7]	52.9 [15.5]	45.7 [13.4]	42.5 [12.5]	42.0 [12.3]	51.3 [15.0]	47.7 [14.0]	47.1 [13.8]
		Sens BTUH [kW]	12.7 [3.7]	10.7 [3.1]	10.3 [3.0]	14.6 [4.3]	12.2 [3.6]	11.8 [3.5]	20.5 [6.0]	17.2 [5.0]	16.6 [4.9]
		Power	6.6	6.4	6.3	5.2	5.0	5.0	6.3	6.1	6.0
	70 [21.1]	Total BTUH [kW]	52.7 [15.5]	49.1 [14.4]	48.4 [14.2]	40.9 [12.0]	38.0 [11.1]	37.5 [11.0]	46.4 [13.6]	43.2 [12.7]	42.6 [12.5]
		Sens BTUH [kW]	10.1 [3.0]	8.5 [2.5]	8.2 [2.4]	11.9 [3.5]	10.0 [2.9]	9.7 [2.8]	17.9 [5.2]	15.0 [4.4]	14.5 [4.2]
		Power	6.4	6.1	6.1	5.0	4.8	4.8	6.0	5.8	5.8
	80 [26.7]	Total BTUH [kW]	46.3 [13.6]	43.1 [12.6]	42.6 [12.5]	34.5 [10.1]	32.1 [9.4]	31.6 [9.3]	40.0 [11.7]	37.2 [10.9]	36.7 [10.8]
Sens BTUH [kW]		5.6 [1.6]	4.7 [1.4]	4.5 [1.3]	7.4 [2.2]	6.2 [1.8]	6.0 [1.8]	13.3 [3.9]	11.2 [3.3]	10.8 [3.2]	
Power		6.4	6.1	6.1	5.0	4.8	4.8	6.1	5.8	5.8	
90 [32.2]	Total BTUH [kW]	38.4 [11.2]	35.7 [10.5]	35.2 [10.3]	26.5 [7.8]	24.7 [7.2]	24.3 [7.1]	32.1 [9.4]	29.8 [8.7]	29.4 [8.6]	
	Sens BTUH [kW]	-0.9 [-0.3]	-0.7 [-0.2]	-0.7 [-0.2]	0.9 [0.3]	0.8 [0.2]	0.8 [0.2]	6.9 [2.0]	5.8 [1.7]	5.6 [1.6]	
	Power	6.6	6.4	6.4	5.2	5.1	5.0	6.3	6.1	6.1	
100 [37.8]	Total BTUH [kW]	28.9 [8.5]	26.9 [7.9]	26.5 [7.8]	17.0 [5.0]	15.8 [4.6]	15.6 [4.6]	22.6 [6.6]	21.0 [6.1]	20.7 [6.1]	
	Sens BTUH [kW]	-9.2 [-2.7]	-7.7 [-2.3]	-7.5 [-2.2]	-7.4 [-2.2]	-6.2 [-1.8]	-6.0 [-1.8]	-1.5 [-0.4]	-1.2 [-0.4]	-1.2 [-0.4]	
	Power	7.2	6.9	6.9	5.8	5.6	5.5	6.8	6.6	6.6	
110 [43.3]	Total BTUH [kW]	17.9 [5.2]	16.6 [4.9]	16.4 [4.8]	6.0 [1.8]	5.6 [1.6]	5.5 [1.6]	11.5 [3.4]	10.7 [3.1]	10.6 [3.1]	
	Sens BTUH [kW]	-19.5 [-5.7]	-16.3 [-4.8]	-15.8 [-4.6]	-17.7 [-5.2]	-14.8 [-4.3]	-14.3 [-4.2]	-11.7 [-3.4]	-9.8 [-2.9]	-9.5 [-2.8]	
	Power	7.9	7.7	7.6	6.5	6.3	6.3	7.6	7.4	7.3	
120 [48.9]	Total BTUH [kW]	5.3 [1.5]	4.9 [1.4]	4.9 [1.4]	-6.6 [-1.9]	-6.1 [-1.8]	-6.0 [-1.8]	-1.0 [-0.3]	-1.0 [-0.3]	-1.0 [-0.3]	
	Sens BTUH [kW]	-31.6 [-9.3]	-26.5 [-7.8]	-25.7 [-7.5]	-29.8 [-8.7]	-25.0 [-7.3]	-24.2 [-7.1]	-23.9 [-7.0]	-20.0 [-5.9]	-19.4 [-5.7]	
	Power	9.0	8.7	8.6	7.6	7.3	7.3	8.7	8.4	8.3	

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power —kW input

NOTES: ① When the entering air dry bulb is other than 75°F [23.9°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

[] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA (LOW REHEAT MODE)—RGEDZT120

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①											
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]		
CFM [L/s]			3000 [1416]	2400 [1133]	2000 [944]	3000 [1416]	2400 [1133]	2000 [944]	3000 [1416]	2400 [1133]	2000 [944]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	46.5 [13.6]	44.4 [13.0]	43.1 [12.6]	43.1 [12.6]	41.2 [12.1]	40.0 [11.7]	40.3 [11.8]	38.6 [11.3]	37.4 [11.0]
		Sens BTUH [kW]	12.9 [3.8]	11.6 [3.4]	10.7 [3.1]	13.8 [4.0]	12.3 [3.6]	11.4 [3.3]	18.5 [5.4]	16.5 [4.8]	15.3 [4.5]
		Power	4.6	4.5	4.4	4.5	4.4	4.3	4.5	4.4	4.3
	65 [18.3]	Total BTUH [kW]	45.7 [13.4]	43.7 [12.8]	42.4 [12.4]	42.3 [12.4]	40.5 [11.9]	39.3 [11.5]	39.6 [11.6]	37.8 [11.1]	36.7 [10.8]
		Sens BTUH [kW]	10.5 [3.1]	9.4 [2.8]	8.7 [2.5]	11.4 [3.3]	10.2 [3.0]	9.4 [2.8]	16.1 [4.7]	14.4 [4.2]	13.3 [3.9]
		Power	4.6	4.5	4.5	4.6	4.5	4.4	4.5	4.4	4.4
	70 [21.1]	Total BTUH [kW]	44.7 [13.1]	42.7 [12.5]	41.4 [12.1]	41.3 [12.1]	39.5 [11.6]	38.3 [11.2]	38.5 [11.3]	36.9 [10.8]	35.7 [10.5]
Sens BTUH [kW]		8.3 [2.4]	7.4 [2.2]	6.9 [2.0]	9.2 [2.7]	8.2 [2.4]	7.6 [2.2]	13.9 [4.1]	12.4 [3.6]	11.4 [3.4]	
Power		4.7	4.6	4.6	4.7	4.6	4.5	4.6	4.5	4.5	
75 [23.9]	Total BTUH [kW]	43.4 [12.7]	41.5 [12.2]	40.2 [11.8]	40.0 [11.7]	38.3 [11.2]	37.1 [10.9]	37.2 [10.9]	35.6 [10.4]	34.5 [10.1]	
	Sens BTUH [kW]	6.3 [1.8]	5.6 [1.7]	5.2 [1.5]	7.2 [2.1]	6.4 [1.9]	5.9 [1.7]	11.9 [3.5]	10.6 [3.1]	9.8 [2.9]	
	Power	4.9	4.8	4.7	4.8	4.7	4.7	4.8	4.7	4.6	
80 [26.7]	Total BTUH [kW]	41.8 [12.2]	40.0 [11.7]	38.8 [11.4]	38.4 [11.3]	36.8 [10.8]	35.6 [10.4]	35.7 [10.5]	34.1 [10.0]	33.1 [9.7]	
	Sens BTUH [kW]	4.5 [1.3]	4.0 [1.2]	3.7 [1.1]	5.4 [1.6]	4.8 [1.4]	4.4 [1.3]	10.1 [2.9]	9.0 [2.6]	8.3 [2.4]	
	Power	5.1	5.0	4.9	5.0	4.9	4.9	5.0	4.9	4.8	
85 [29.4]	Total BTUH [kW]	40.0 [11.7]	38.2 [11.2]	37.1 [10.9]	36.6 [10.7]	35.0 [10.3]	33.9 [9.9]	33.8 [9.9]	32.4 [9.5]	31.4 [9.2]	
	Sens BTUH [kW]	2.9 [0.8]	2.6 [0.8]	2.4 [0.7]	3.8 [1.1]	3.4 [1.0]	3.1 [0.9]	8.5 [2.5]	7.6 [2.2]	7.0 [2.0]	
	Power	5.4	5.3	5.2	5.3	5.2	5.1	5.3	5.2	5.1	
90 [32.2]	Total BTUH [kW]	37.9 [11.1]	36.2 [10.6]	35.1 [10.3]	34.5 [10.1]	33.0 [9.7]	32.0 [9.4]	31.7 [9.3]	30.4 [8.9]	29.4 [8.6]	
	Sens BTUH [kW]	1.5 [0.4]	1.3 [0.4]	1.2 [0.4]	2.4 [0.7]	2.1 [0.6]	2.0 [0.6]	7.1 [2.1]	6.3 [1.9]	5.8 [1.7]	
	Power	5.7	5.6	5.5	5.6	5.5	5.4	5.6	5.5	5.4	

GROSS SYSTEMS PERFORMANCE DATA (HIGH REHEAT MODE)—RGEDZT120

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①											
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]		
CFM [L/s]			4800 [2265]	3800 [1793]	3200 [1510]	4800 [2265]	3800 [1793]	3200 [1510]	4800 [2265]	3800 [1793]	3200 [1510]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	58.1 [17.0]	55.4 [16.2]	53.9 [15.8]	55.5 [16.3]	53.0 [15.5]	51.4 [15.1]	53.1 [15.6]	50.7 [14.9]	49.2 [14.4]
		Sens BTUH [kW]	10.5 [3.1]	9.3 [2.7]	8.6 [2.5]	15.6 [4.6]	13.9 [4.1]	12.9 [3.8]	19.9 [5.8]	17.7 [5.2]	16.4 [4.8]
		Power	7.0	6.9	6.8	6.9	6.8	6.7	6.9	6.8	6.7
	70 [21.1]	Total BTUH [kW]	53.4 [15.7]	51.0 [14.9]	49.5 [14.5]	50.8 [14.9]	48.5 [14.2]	47.1 [13.8]	48.4 [14.2]	46.2 [13.5]	44.9 [13.2]
		Sens BTUH [kW]	8.3 [2.4]	7.4 [2.2]	6.8 [2.0]	13.4 [3.9]	12.0 [3.5]	11.1 [3.2]	17.7 [5.2]	15.8 [4.6]	14.6 [4.3]
		Power	7.1	7.0	6.9	7.0	6.9	6.8	7.0	6.9	6.8
	80 [26.7]	Total BTUH [kW]	48.4 [14.2]	46.2 [13.5]	44.9 [13.2]	45.8 [13.4]	43.7 [12.8]	42.5 [12.4]	43.4 [12.7]	41.5 [12.1]	40.3 [11.8]
Sens BTUH [kW]		4.5 [1.3]	4.0 [1.2]	3.7 [1.1]	9.7 [2.8]	8.6 [2.5]	8.0 [2.3]	14.0 [4.1]	12.5 [3.6]	11.5 [3.4]	
Power		7.4	7.3	7.2	7.3	7.2	7.1	7.3	7.2	7.1	
90 [32.2]	Total BTUH [kW]	43.1 [12.6]	41.1 [12.0]	39.9 [11.7]	40.5 [11.9]	38.6 [11.3]	37.5 [11.0]	38.1 [11.2]	36.3 [10.6]	35.3 [10.3]	
	Sens BTUH [kW]	-0.8 [-0.2]	-0.7 [-0.2]	-0.6 [-0.2]	4.4 [1.3]	3.9 [1.1]	3.6 [1.1]	8.7 [2.5]	7.7 [2.3]	7.2 [2.1]	
	Power	7.9	7.7	7.6	7.8	7.7	7.5	7.8	7.6	7.5	
100 [37.8]	Total BTUH [kW]	37.4 [11.0]	35.7 [10.5]	34.6 [10.2]	34.8 [10.2]	33.2 [9.7]	32.2 [9.4]	32.4 [9.5]	30.9 [9.1]	30.0 [8.8]	
	Sens BTUH [kW]	-7.6 [-2.2]	-6.8 [-2.0]	-6.3 [-1.8]	-2.5 [-0.7]	-2.2 [-0.6]	-2.0 [-0.6]	1.8 [0.5]	1.6 [0.5]	1.5 [0.4]	
	Power	8.6	8.4	8.3	8.5	8.3	8.2	8.5	8.3	8.2	
110 [43.3]	Total BTUH [kW]	31.3 [9.2]	29.9 [8.8]	29.0 [8.5]	28.7 [8.4]	27.4 [8.0]	26.6 [7.8]	26.3 [7.7]	25.1 [7.4]	24.4 [7.1]	
	Sens BTUH [kW]	-16.0 [-4.7]	-14.3 [-4.2]	-13.2 [-3.9]	-10.9 [-3.2]	-9.7 [-2.8]	-9.0 [-2.6]	-6.6 [-1.9]	-5.9 [-1.7]	-5.5 [-1.6]	
	Power	9.5	9.3	9.2	9.4	9.2	9.1	9.4	9.2	9.0	
120 [48.9]	Total BTUH [kW]	24.9 [7.3]	23.8 [7.0]	23.1 [6.8]	22.3 [6.5]	21.3 [6.2]	20.7 [6.1]	19.9 [5.8]	19.0 [5.6]	18.5 [5.4]	
	Sens BTUH [kW]	-26.0 [-7.6]	-23.2 [-6.8]	-21.5 [-6.3]	-20.9 [-6.1]	-18.6 [-5.5]	-17.2 [-5.0]	-16.6 [-4.9]	-14.8 [-4.3]	-13.7 [-4.0]	
	Power	10.6	10.3	10.2	10.5	10.2	10.1	10.5	10.2	10.1	

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power —KW input

NOTES: ① When the entering air dry bulb is other than 75°F [23.9°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 - DR) x (dbE - 80)].

[] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA (LOW REHEAT MODE)—RGEDZT150

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①												
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]			
CFM [L/s]			3000 [1416]	2400 [1133]	2000 [944]	3000 [1416]	2400 [1133]	2000 [944]	3000 [1416]	2400 [1133]	2000 [944]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60 [15.6]	Total BTUH [kW]	46.5 [13.6]	44.4 [13.0]	43.1 [12.6]	43.1 [12.6]	41.2 [12.1]	40.0 [11.7]	40.3 [11.8]	38.6 [11.3]	37.4 [11.0]	
		Sens BTUH [kW]	12.9 [3.8]	11.6 [3.4]	10.7 [3.1]	13.8 [4.0]	12.3 [3.6]	11.4 [3.3]	18.5 [5.4]	16.5 [4.8]	15.3 [4.5]	
		Power	4.6	4.5	4.4	4.5	4.4	4.3	4.5	4.4	4.3	
	65 [18.3]	Total BTUH [kW]	45.7 [13.4]	43.7 [12.8]	42.4 [12.4]	42.3 [12.4]	40.5 [11.9]	39.3 [11.5]	39.6 [11.6]	39.6 [11.6]	37.8 [11.1]	36.7 [10.8]
		Sens BTUH [kW]	10.5 [3.1]	9.4 [2.8]	8.7 [2.5]	11.4 [3.3]	10.2 [3.0]	9.4 [2.8]	16.1 [4.7]	14.4 [4.2]	13.3 [3.9]	
		Power	4.6	4.5	4.5	4.6	4.5	4.4	4.5	4.4	4.4	
	70 [21.1]	Total BTUH [kW]	44.7 [13.1]	42.7 [12.5]	41.4 [12.1]	41.3 [12.1]	39.5 [11.6]	38.3 [11.2]	38.5 [11.3]	38.5 [11.3]	36.9 [10.8]	35.7 [10.5]
Sens BTUH [kW]		8.3 [2.4]	7.4 [2.2]	6.9 [2.0]	9.2 [2.7]	8.2 [2.4]	7.6 [2.2]	13.9 [4.1]	12.4 [3.6]	11.4 [3.4]		
Power		4.7	4.6	4.6	4.7	4.6	4.5	4.6	4.5	4.5		
75 [23.9]	Total BTUH [kW]	43.4 [12.7]	41.5 [12.2]	40.2 [11.8]	40.0 [11.7]	38.3 [11.2]	37.1 [10.9]	37.2 [10.9]	37.2 [10.9]	35.6 [10.4]	34.5 [10.1]	
	Sens BTUH [kW]	6.3 [1.8]	5.6 [1.7]	5.2 [1.5]	7.2 [2.1]	6.4 [1.9]	5.9 [1.7]	11.9 [3.5]	10.6 [3.1]	9.8 [2.9]		
	Power	4.9	4.8	4.7	4.8	4.7	4.7	4.8	4.7	4.6		
80 [26.7]	Total BTUH [kW]	41.8 [12.2]	40.0 [11.7]	38.8 [11.4]	38.4 [11.3]	36.8 [10.8]	35.6 [10.4]	35.7 [10.5]	35.7 [10.5]	34.1 [10.0]	33.1 [9.7]	
	Sens BTUH [kW]	4.5 [1.3]	4.0 [1.2]	3.7 [1.1]	5.4 [1.6]	4.8 [1.4]	4.4 [1.3]	10.1 [2.9]	9.0 [2.6]	8.3 [2.4]		
	Power	5.1	5.0	4.9	5.0	4.9	4.9	5.0	4.9	4.8		
85 [29.4]	Total BTUH [kW]	40.0 [11.7]	38.2 [11.2]	37.1 [10.9]	36.6 [10.7]	35.0 [10.3]	33.9 [9.9]	33.8 [9.9]	33.8 [9.9]	32.4 [9.5]	31.4 [9.2]	
	Sens BTUH [kW]	2.9 [0.8]	2.6 [0.8]	2.4 [0.7]	3.8 [1.1]	3.4 [1.0]	3.1 [0.9]	8.5 [2.5]	7.6 [2.2]	7.0 [2.0]		
	Power	5.4	5.3	5.2	5.3	5.2	5.1	5.3	5.2	5.1		
90 [32.2]	Total BTUH [kW]	37.9 [11.1]	36.2 [10.6]	35.1 [10.3]	34.5 [10.1]	33.0 [9.7]	32.0 [9.4]	31.7 [9.3]	31.7 [9.3]	30.4 [8.9]	29.4 [8.6]	
	Sens BTUH [kW]	1.5 [0.4]	1.3 [0.4]	1.2 [0.4]	2.4 [0.7]	2.1 [0.6]	2.0 [0.6]	7.1 [2.1]	6.3 [1.9]	5.8 [1.7]		
	Power	5.7	5.6	5.5	5.6	5.5	5.4	5.6	5.5	5.4		

GROSS SYSTEMS PERFORMANCE DATA (HIGH REHEAT MODE)—RGEDZT150

ENTERING INDOOR AIR @ 75°F [23.9°C] dbE ①											
wbE			65.3°F [18.5°C]			64°F [17.8°C]			62.5°F [16.9°C]		
CFM [L/s]			6000 [2832]	4100 [1935]	4000 [1888]	6000 [2832]	4100 [1935]	4000 [1888]	6000 [2832]	4100 [1935]	4000 [1888]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60°F [15.6]	Total BTUH [kW]	99.3 [29.1]	91.5 [26.8]	91.1 [26.7]	101.6 [29.8]	93.7 [27.4]	93.2 [27.3]	92.7 [27.2]	85.5 [25.1]	85.2 [25.0]
		Sens BTUH [kW]	33.3 [9.7]	27.4 [8.0]	27.0 [7.9]	40.1 [11.8]	33.0 [9.7]	32.6 [9.6]	46.4 [13.6]	38.1 [11.2]	37.7 [11.0]
		Power	9.5	9.1	9.1	9.3	8.9	8.9	9.3	8.9	8.9
	70°F [21.1]	Total BTUH [kW]	94.4 [27.7]	87.1 [25.5]	86.7 [25.4]	96.7 [28.3]	89.2 [26.1]	88.8 [26.0]	87.9 [25.8]	81.1 [23.8]	80.7 [23.7]
		Sens BTUH [kW]	27.0 [7.9]	22.2 [6.5]	21.9 [6.4]	33.9 [9.9]	27.9 [8.2]	27.5 [8.1]	40.1 [11.7]	33.0 [9.7]	32.6 [9.5]
		Power	9.7	9.3	9.3	9.5	9.2	9.2	9.5	9.2	9.1
	80°F [26.7]	Total BTUH [kW]	87.6 [25.7]	80.8 [23.7]	80.4 [23.6]	89.9 [26.3]	82.9 [24.3]	82.5 [24.2]	81.1 [23.8]	74.8 [21.9]	74.4 [21.8]
Sens BTUH [kW]		20.1 [5.9]	16.5 [4.8]	16.3 [4.8]	27.0 [7.9]	22.2 [6.5]	21.9 [6.4]	33.2 [9.7]	27.3 [8.0]	27.0 [7.9]	
Power		10.2	9.8	9.8	10.0	9.6	9.6	10.0	9.6	9.6	
90°F [32.2]	Total BTUH [kW]	78.7 [23.1]	72.6 [21.3]	72.3 [21.2]	81.0 [23.7]	74.7 [21.9]	74.4 [21.8]	72.2 [21.2]	66.6 [19.5]	66.3 [19.4]	
	Sens BTUH [kW]	12.5 [3.7]	10.3 [3.0]	10.2 [3.0]	19.4 [5.7]	15.9 [4.7]	15.8 [4.6]	25.6 [7.5]	21.0 [6.2]	20.8 [6.1]	
	Power	11.0	10.5	10.5	10.8	10.4	10.3	10.8	10.3	10.3	
100°F [37.8]	Total BTUH [kW]	67.8 [19.9]	62.5 [18.3]	62.3 [18.2]	70.1 [20.5]	64.7 [18.9]	64.4 [18.9]	61.3 [18.0]	56.5 [16.6]	56.3 [16.5]	
	Sens BTUH [kW]	4.3 [1.3]	3.5 [1.0]	3.5 [1.0]	11.2 [3.3]	9.2 [2.7]	9.1 [2.7]	17.4 [5.1]	14.3 [4.2]	14.1 [4.1]	
	Power	11.9	11.5	11.4	11.8	11.3	11.3	11.8	11.3	11.3	
110 [43.3]	Total BTUH [kW]	54.9 [16.1]	50.6 [14.8]	50.4 [14.8]	57.2 [16.8]	52.7 [15.5]	52.5 [15.4]	48.4 [14.2]	44.6 [13.1]	44.4 [13.0]	
	Sens BTUH [kW]	-4.6 [-1.3]	-3.8 [-1.1]	-3.7 [-1.1]	2.3 [0.7]	1.9 [0.5]	1.9 [0.5]	8.5 [2.5]	7.0 [2.0]	6.9 [2.0]	
	Power	13.2	12.6	12.6	13.0	12.5	12.4	13.0	12.5	12.4	
120 [48.9]	Total BTUH [kW]	40.0 [11.7]	36.8 [10.8]	36.7 [10.8]	42.3 [12.4]	39.0 [11.4]	38.8 [11.4]	33.4 [9.8]	30.8 [9.0]	30.7 [9.0]	
	Sens BTUH [kW]	-14.1 [-4.1]	-11.6 [-3.4]	-11.5 [-3.4]	-7.2 [-2.1]	-6.0 [-1.7]	-5.9 [-1.7]	-1.0 [-0.3]	-0.9 [-0.2]	-0.8 [-0.2]	
	Power	14.6	14.1	14.0	14.5	13.9	13.9	14.4	13.9	13.8	

DR — Depression ratio
dbE — Entering air dry bulb
wbE — Entering air wet bulb

Total — Total capacity x 1000 BTUH
Sens — Sensible capacity x 1000 BTUH
Power — kW input

NOTES: ① When the entering air dry bulb is other than 75°F [23.9°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE— 7.5 TON [26.4 kW] — 60 Hz — DOWNFLOW (Con't.)

Airflow		AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE				Pressure Drop MERV 8	Pressure Drop MERV 13
CFM [L/s]	Total MBH	Sensible MBH	Power kW	Wet Coil	Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-AED2000 & Concentric Adapter RXMC-DD01 (Drop)	Resistance — Inches of Water [kPa]		
2400 [1133]	0.96	0.89	0.98	0.04 [.01]	0.01 [.00]	0.66 [.16]	0.53 [.13]	0.093 [.02]	0.047 [.01]	
2500 [1180]	0.96	0.90	0.99	0.05 [.01]	0.02 [.00]	0.71 [.18]	0.57 [.14]	0.098 [.02]	0.055 [.01]	
2600 [1227]	0.97	0.92	0.99	0.05 [.01]	0.02 [.01]	0.75 [.19]	0.60 [.15]	0.103 [.02]	0.062 [.01]	
2700 [1274]	0.97	0.93	0.99	0.05 [.01]	0.03 [.01]	0.80 [.20]	0.65 [.16]	0.108 [.03]	0.070 [.02]	
2800 [1321]	0.98	0.95	0.99	0.06 [.01]	0.04 [.01]	0.85 [.21]	0.69 [.17]	0.113 [.03]	0.078 [.02]	
2900 [1368]	0.98	0.96	1.00	0.06 [.02]	0.04 [.01]	0.91 [.23]	0.74 [.18]	0.117 [.03]	0.085 [.02]	
3000 [1416]	0.99	0.97	1.00	0.07 [.02]	0.05 [.01]	0.96 [.24]	0.79 [.20]	0.122 [.03]	0.093 [.02]	
3100 [1463]	1.00	0.99	1.00	0.07 [.02]	0.06 [.02]	1.02 [.25]	0.86 [.21]	0.127 [.03]	0.100 [.02]	
3200 [1510]	1.00	1.00	1.01	0.07 [.02]	0.07 [.02]	1.08 [.27]	0.92 [.23]	0.132 [.03]	0.108 [.03]	
3300 [1557]	1.01	1.02	1.01	0.08 [.02]	0.08 [.02]	1.15 [.29]	0.99 [.25]	0.137 [.03]	0.115 [.03]	
3400 [1604]	1.01	1.03	1.01	0.08 [.02]	0.09 [.02]	1.21 [.30]	1.05 [.26]	0.142 [.03]	0.123 [.03]	
3500 [1652]	1.02	1.05	1.01	0.09 [.02]	0.10 [.02]	1.29 [.32]	1.09 [.27]	0.147 [.04]	0.131 [.03]	
3600 [1699]	1.02	1.06	1.02	0.09 [.02]	0.11 [.03]	1.36 [.34]	1.13 [.28]	0.152 [.04]	0.138 [.03]	

*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE— 7.5 TON [26.4 kW] — 60 Hz — SIDEFLOW (Con't.)

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE				Pressure Drop MERV 8	Pressure Drop MERV 13
	Total MBH	Sensible MBH	Power kW	Wet Coil	Horizontal Economizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-AED2000 & Concentric Adapter RXMC-DD01 (Drop)		
Resistance — Inches of Water [kPa]									
2400 [1133]	0.96	0.89	0.98	0.04 [0.01]	0.21 [0.05]	0.66 [0.16]	0.53 [0.13]	0.093 [0.02]	0.047 [0.01]
2500 [1180]	0.96	0.90	0.99	0.05 [0.01]	0.25 [0.06]	0.71 [0.18]	0.57 [0.14]	0.098 [0.02]	0.055 [0.01]
2600 [1227]	0.97	0.92	0.99	0.05 [0.01]	0.28 [0.07]	0.75 [0.19]	0.60 [0.15]	0.103 [0.02]	0.062 [0.01]
2700 [1274]	0.97	0.93	0.99	0.05 [0.01]	0.32 [0.08]	0.80 [0.20]	0.65 [0.16]	0.108 [0.03]	0.070 [0.02]
2800 [1321]	0.98	0.95	0.99	0.06 [0.01]	0.36 [0.09]	0.85 [0.21]	0.69 [0.17]	0.113 [0.03]	0.078 [0.02]
2900 [1368]	0.98	0.96	1.00	0.06 [0.02]	0.39 [0.10]	0.91 [0.23]	0.74 [0.18]	0.117 [0.03]	0.085 [0.02]
3000 [1416]	0.99	0.97	1.00	0.07 [0.02]	0.43 [0.11]	0.96 [0.24]	0.79 [0.20]	0.122 [0.03]	0.093 [0.02]
3100 [1463]	1.00	0.99	1.00	0.07 [0.02]	0.47 [0.12]	1.02 [0.25]	0.86 [0.21]	0.127 [0.03]	0.100 [0.02]
3200 [1510]	1.00	1.00	1.01	0.07 [0.02]	0.51 [0.13]	1.08 [0.27]	0.92 [0.23]	0.132 [0.03]	0.108 [0.03]
3300 [1557]	1.01	1.02	1.01	0.08 [0.02]	0.54 [0.14]	1.15 [0.29]	0.99 [0.25]	0.137 [0.03]	0.115 [0.03]
3400 [1604]	1.01	1.03	1.01	0.08 [0.02]	0.58 [0.14]	1.21 [0.30]	1.05 [0.26]	0.142 [0.03]	0.123 [0.03]
3500 [1652]	1.02	1.05	1.01	0.09 [0.02]	0.62 [0.15]	1.29 [0.32]	1.09 [0.27]	0.147 [0.04]	0.131 [0.03]
3600 [1699]	1.02	1.06	1.02	0.09 [0.02]	0.66 [0.16]	1.36 [0.34]	1.13 [0.28]	0.152 [0.04]	0.138 [0.03]

*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—8.5 TON [29.9 kW] — 60 Hz — DOWNFLOW

Air Flow CFM [L/s]	External Static Pressure—Inches of Water [kPa]																																																																															
	Voltage 208/230, 460, 575 — 3 phase 60 Hz										1.0 [f.25]										1.1 [f.27]																																																											
	0.1 [f.02]	0.2 [f.05]	0.3 [f.07]	0.4 [f.10]	0.5 [f.12]	0.6 [f.15]	0.7 [f.17]	0.8 [f.20]	0.9 [f.22]	1.0 [f.25]	1.1 [f.27]	1.2 [f.30]	1.3 [f.32]	1.4 [f.35]	1.5 [f.37]	1.6 [f.40]	1.7 [f.42]	1.8 [f.45]	1.9 [f.47]	2.0 [f.50]	0.1 [f.02]	0.2 [f.05]	0.3 [f.07]	0.4 [f.10]	0.5 [f.12]	0.6 [f.15]	0.7 [f.17]	0.8 [f.20]	0.9 [f.22]	1.0 [f.25]	1.1 [f.27]	1.2 [f.30]	1.3 [f.32]	1.4 [f.35]	1.5 [f.37]	1.6 [f.40]	1.7 [f.42]	1.8 [f.45]	1.9 [f.47]	2.0 [f.50]																																								
2700 [127.4]	—	—	561	894	596	934	631	975	665	1018	698	1062	730	1108	762	1155	793	1203	823	1253	853	1304	882	1357	910	1411	937	1467	964	1524	990	1583	1015	1643	1039	1704	1063	1767	1086	1832	—	—	561	894	596	934	631	975	665	1018	698	1062	730	1108	762	1155	793	1203	823	1253	853	1304	882	1357	910	1411	937	1467	964	1524	990	1583	1015	1643	1039	1704	1063	1767	1086	1832
2800 [132.1]	—	—	573	927	608	969	642	1013	676	1058	708	1104	740	1152	771	1201	802	1252	832	1304	861	1358	899	1413	917	1470	943	1528	970	1587	995	1648	1020	1711	1044	1775	1067	1840	1090	1907	—	—	573	927	608	969	642	1013	676	1058	708	1104	740	1152	771	1201	802	1252	832	1304	861	1358	899	1413	917	1470	943	1528	970	1587	995	1648	1020	1711	1044	1775	1067	1840	1090	1907
2900 [136.8]	—	—	586	964	620	1008	654	1054	687	1101	719	1150	750	1200	781	1252	811	1305	840	1360	869	1416	897	1473	924	1532	950	1593	976	1654	1001	1718	1025	1782	1048	1848	1071	1916	1093	1985	—	—	586	964	620	1008	654	1054	687	1101	719	1150	750	1200	781	1252	811	1305	840	1360	869	1416	897	1473	924	1532	950	1593	976	1654	1001	1718	1025	1782	1048	1848	1071	1916	1093	1985
3000 [141.6]	564	959	599	1004	633	1051	666	1099	698	1149	730	1200	761	1253	791	1307	820	1362	849	1419	877	1477	904	1537	931	1598	957	1661	982	1725	1006	1791	1030	1858	1053	1926	1075	1996	1097	2067	564	959	599	1004	633	1051	666	1099	698	1149	730	1200	761	1253	791	1307	820	1362	849	1419	877	1477	904	1537	931	1598	957	1661	982	1725	1006	1791	1030	1858	1053	1926	1075	1996	1097	2067
3100 [146.3]	578	1001	612	1048	645	1098	678	1148	710	1200	741	1254	771	1308	801	1365	830	1423	858	1482	886	1542	912	1605	939	1668	964	1733	989	1800	1012	1868	1036	1937	1058	2008	1080	2080	1101	2154	578	1001	612	1048	645	1098	678	1148	710	1200	741	1254	771	1308	801	1365	830	1423	858	1482	886	1542	912	1605	939	1668	964	1733	989	1800	1012	1868	1036	1937	1058	2008	1080	2080	1101	2154
3200 [151.0]	592	1046	625	1096	658	1148	690	1201	721	1255	752	1311	782	1363	811	1427	840	1487	867	1548	894	1611	921	1676	946	1742	971	1809	995	1878	1019	1948	1041	2020	1063	2093	1085	2168	1105	2244	592	1046	625	1096	658	1148	690	1201	721	1255	752	1311	782	1363	811	1427	840	1487	867	1548	894	1611	921	1676	946	1742	971	1809	995	1878	1019	1948	1041	2020	1063	2093	1085	2168	1105	2244
3300 [155.7]	605	1096	638	1148	671	1202	702	1257	733	1314	763	1372	793	1432	821	1493	849	1555	877	1619	903	1684	929	1751	954	1819	979	1889	1002	1960	1025	2033	1047	2107	1069	2182	1090	2259	1110	2337	605	1096	638	1148	671	1202	702	1257	733	1314	763	1372	793	1432	821	1493	849	1555	877	1619	903	1684	929	1751	954	1819	979	1889	1002	1960	1025	2033	1047	2107	1069	2182	1090	2259	1110	2337
3400 [160.4]	619	1149	652	1204	684	1260	715	1317	745	1376	775	1437	804	1499	832	1562	860	1627	886	1693	912	1761	938	1830	962	1900	986	1972	1009	2046	1032	2121	1053	2197	1074	2275	1095	2354	1114	2435	619	1149	652	1204	684	1260	715	1317	745	1376	775	1437	804	1499	832	1562	860	1627	886	1693	912	1761	938	1830	962	1900	986	1972	1009	2046	1032	2121	1053	2197	1074	2275	1095	2354	1114	2435
3500 [165.2]	634	1206	666	1263	697	1322	728	1382	758	1443	787	1506	815	1570	843	1635	870	1702	896	1771	922	1841	946	1912	970	1985	994	2060	1017	2135	1038	2213	1060	2291	1080	2371	1100	2453	1119	2536	634	1206	666	1263	697	1322	728	1382	758	1443	787	1506	815	1570	843	1635	870	1702	896	1771	922	1841	946	1912	970	1985	994	2060	1017	2135	1038	2213	1060	2291	1080	2371	1100	2453	1119	2536
3600 [169.9]	648	1267	680	1326	711	1387	741	1449	770	1513	799	1578	827	1645	854	1713	880	1782	906	1853	931	1925	955	1999	979	2074	1002	2151	1024	2229	1045	2308	1066	2389	1086	2472	1105	2556	1124	2641	648	1267	680	1326	711	1387	741	1449	770	1513	799	1578	827	1645	854	1713	880	1782	906	1853	931	1925	955	1999	979	2074	1002	2151	1024	2229	1045	2308	1066	2389	1086	2472	1105	2556	1124	2641
3700 [174.6]	663	1332	694	1393	724	1456	754	1521	783	1587	811	1654	838	1723	865	1793	891	1865	916	1938	941	2013	965	2089	988	2167	1010	2246	1032	2326	1053	2408	1073	2491	1092	2576	1111	2662	1129	2750	663	1332	694	1393	724	1456	754	1521	783	1587	811	1654	838	1723	865	1793	891	1865	916	1938	941	2013	965	2089	988	2167	1010	2246	1032	2326	1053	2408	1073	2491	1092	2576	1111	2662	1129	2750
3800 [179.4]	678	1400	708	1464	738	1529	767	1596	795	1665	823	1734	850	1805	876	1878	902	1952	926	2028	951	2105	974	2183	996	2263	1018	2344	1039	2427	1060	2511	1080	2597	1099	2684	1117	2772	1134	2862	678	1400	708	1464	738	1529	767	1596	795	1665	823	1734	850	1805	876	1878	902	1952	926	2028	951	2105	974	2183	996	2263	1018	2344	1039	2427	1060	2511	1080	2597	1099	2684	1117	2772	1134	2862
3900 [184.0]	693	1472	723	1538	752	1606	781	1675	808	1746	836	1818	862	1892	888	1966	913	2043	937	2121	961	2200	983	2281	1005	2363	1027	2447	1048	2532	1067	2618	1087	2706	1105	2796	1123	2886	1140	2979	693	1472	723	1538	752	1606	781	1675	808	1746	836	1818	862	1892	888	1966	913	2043	937	2121	961	2200	983	2281	1005	2363	1027	2447	1048	2532	1067	2618	1087	2706	1105	2796	1123	2886	1140	2979
4000 [188.8]	708	1548	737	1617	766	1687	794	1758	822	1831	848	1906	874	1981	900	2059	924	2137	948	2218	971	2299	993	2382	1015	2467	1036	2553	1056	2640	1075	2729	1094	2819	1112	2911	1129	3004	1146	3099	708	1548	737	1617	766	1687	794	1758	822	1831	848	1906	874	1981	900	2059	924	2137	948	2218	971	2299	993	2382	1015	2467	1036	2553	1056	2640	1075	2729	1094	2819	1112	2911	1129	3004	1146	3099
4100 [193.5]	723	1628	752	1699	781	1771	808	1845	835	1920	861	1997	887	2075	911	2155	935	2236	959	2318	981	2402	1003	2488	1024	2574	1045	2663	1064	2752	1083	2844	1101	2936	1119	3030	1136	3126	1152	3223	723	1628	752	1699	781	1771	808	1845	835	1920	861	1997	887	2075	911	2155	935	2236	959	2318	981	2402	1003	2488	1024	2574	1045	2663	1064	2752	1083	2844	1101	2936	1119	3030	1136	3126	1152	3223

NOTE: A/F—Drive left of the bold line, B/G—Drive right of bold lines.

Drive Package	A/F	B/G	C/H
Motor H.P. [W]	2 [1491.4]	3 [2237.1]	3 [2237.1]
Blower Sheave	AK79H	AK79H	AK79H
Motor Sheave	1V140*7/8	1VP50*7/8	1VP56*7/8
Belt	A49	A50	A51
Turns Open	0	1	2
RPM	804	758	710
		661	616
		559	516
		1048	1003
		959	914
		872	826
		782	736
		693	647
		604	558
		515	469
		426	380
		337	291
		248	202
		159	1

AIRFLOW PERFORMANCE—8.5 TON [29.9 kW] — 60 Hz — DOWNFLOW (Con't.)

Airflow		AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE				Pressure Drop MERV 8	Pressure Drop MERV 13
CFM [L/s]	Total MBH	Sensible MBH	Power kW	Wet Coil	Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-AED2000 & Concentric Adapter RXMC-DD01 (Drop)	Resistance — Inches of Water [kPa]		
2700 [1274]	0.97	0.93	0.99	0.07 [0.02]	0.03 [0.01]	0.80 [0.20]	0.65 [0.16]	0.108 [0.03]	0.070 [0.02]	
2800 [1321]	0.98	0.94	0.99	0.07 [0.02]	0.03 [0.01]	0.85 [0.21]	0.69 [0.17]	0.113 [0.03]	0.078 [0.02]	
2900 [1368]	0.98	0.96	0.99	0.08 [0.02]	0.04 [0.01]	0.91 [0.23]	0.74 [0.18]	0.117 [0.03]	0.085 [0.02]	
3000 [1416]	0.99	0.97	1.00	0.08 [0.02]	0.05 [0.01]	0.96 [0.24]	0.79 [0.20]	0.122 [0.03]	0.093 [0.02]	
3100 [1463]	0.99	0.99	1.00	0.09 [0.02]	0.06 [0.01]	1.02 [0.25]	0.86 [0.21]	0.127 [0.03]	0.100 [0.02]	
3200 [1510]	1.00	1.00	1.00	0.10 [0.02]	0.07 [0.02]	1.08 [0.27]	0.92 [0.23]	0.132 [0.03]	0.108 [0.03]	
3300 [1557]	1.01	1.01	1.00	0.10 [0.03]	0.08 [0.02]	1.15 [0.29]	0.99 [0.25]	0.137 [0.03]	0.115 [0.03]	
3400 [1604]	1.01	1.03	1.01	0.11 [0.03]	0.09 [0.02]	1.21 [0.30]	1.05 [0.26]	0.142 [0.03]	0.123 [0.03]	
3500 [1652]	1.02	1.04	1.01	0.11 [0.03]	0.10 [0.02]	1.29 [0.32]	1.09 [0.27]	0.147 [0.04]	0.131 [0.03]	
3600 [1699]	1.02	1.06	1.01	0.12 [0.03]	0.11 [0.03]	1.36 [0.34]	1.13 [0.28]	0.152 [0.04]	0.138 [0.03]	
3700 [1746]	1.03	1.07	1.02	0.13 [0.03]	0.12 [0.03]	1.43 [0.36]	1.18 [0.29]	0.157 [0.04]	0.146 [0.04]	
3800 [1793]	1.03	1.09	1.02	0.13 [0.03]	0.13 [0.03]	1.50 [0.37]	1.23 [0.31]	0.162 [0.04]	0.153 [0.04]	
3900 [1840]	1.04	1.10	1.02	0.14 [0.04]	0.15 [0.04]	1.59 [0.40]	1.31 [0.33]	0.167 [0.04]	0.161 [0.04]	
4000 [1888]	1.05	1.12	1.02	0.14 [0.04]	0.16 [0.04]	1.68 [0.42]	1.38 [0.34]	0.171 [0.04]	0.169 [0.04]	
4100 [1935]	1.05	1.13	1.03	0.15 [0.04]	0.17 [0.04]	1.74 [0.43]	1.44 [0.36]	0.176 [0.04]	0.176 [0.04]	

*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—8.5 TON [29.9 kW] — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	Model RGEDZ*102* Voltage 208/230, 460, 575 — 3 phase 60 Hz																																							
	External Static Pressure—Inches of Water [kPa]																																							
	0.1 [0.2]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]																				
2700 [127.4]	—	—	577	932	611	969	644	1009	677	1032	710	1098	742	1147	774	1199	806	1254	837	1312	868	1373	898	1437	929	1505	959	1575	988	1648	1017	1725	1046	1804	1074	1886	1102	1972		
2800 [132.1]	—	—	556	926	589	962	622	1000	655	1042	687	1087	719	1134	751	1185	783	1239	814	1295	844	1355	875	1418	905	1484	934	1553	963	1624	992	1699	1021	1777	1049	1858	1077	1942	1105	2029
2900 [136.9]	—	—	568	958	601	995	633	1036	666	1079	697	1125	729	1174	760	1227	791	1282	821	1340	851	1402	881	1466	911	1533	940	1604	968	1677	997	1754	1025	1834	1052	1916	1080	2002	1107	2090
3000 [141.6]	—	—	580	994	613	1033	645	1074	676	1119	708	1167	738	1218	769	1272	799	1329	829	1389	859	1452	888	1518	917	1587	945	1659	973	1734	1001	1812	1029	1894	1056	1978	1082	2065	1109	2155
3100 [146.3]	561	996	593	1033	624	1073	656	1117	687	1163	718	1213	748	1265	778	1321	808	1379	837	1441	866	1506	895	1573	923	1644	951	1718	978	1794	1006	1874	1033	1957	1059	2043	1085	2132	1111	2224
3200 [151.0]	574	1037	605	1076	636	1118	667	1163	698	1211	728	1262	758	1316	787	1373	816	1434	845	1497	873	1563	902	1632	929	1705	957	1780	984	1858	1010	1940	1037	2024	1063	2112	1088	2202	1113	2296
3300 [155.7]	587	1082	618	1122	648	1166	679	1212	709	1262	738	1315	767	1371	796	1430	825	1491	853	1556	881	1624	908	1695	936	1769	962	1846	989	1926	1015	2009	1041	2095	1066	2184	1091	2276	1116	2372
3400 [160.4]	600	1130	630	1172	660	1217	690	1266	720	1317	749	1371	777	1429	806	1489	834	1553	861	1619	888	1689	915	1761	942	1837	968	1916	994	1997	1020	2082	1045	2170	1070	2260	1094	2354	1118	2451
3500 [165.2]	613	1182	643	1226	672	1273	702	1323	730	1376	759	1432	787	1491	815	1553	842	1618	869	1686	896	1757	922	1831	948	1909	974	1989	999	2072	1024	2158	1049	2248	1073	2340	1097	2436	1121	2534
3600 [169.9]	626	1238	656	1283	685	1332	713	1383	741	1438	769	1495	797	1556	824	1620	851	1687	877	1756	904	1829	929	1905	955	1984	980	2066	1005	2151	1029	2238	1053	2329	1077	2423	1100	2520	1123	2621
3700 [174.6]	640	1297	668	1344	697	1394	725	1447	753	1504	780	1563	807	1625	833	1690	860	1759	886	1830	911	1905	937	1982	961	2063	986	2146	1010	2233	1034	2322	1057	2415	1081	2510	1103	2609	1128	2711
3800 [179.3]	653	1360	681	1409	709	1460	737	1515	764	1573	790	1634	817	1698	843	1765	869	1835	894	1908	919	1984	944	2063	968	2145	992	2230	1016	2318	1039	2410	1062	2504	1084	2601	1107	2701	1128	2805
3900 [184.0]	667	1426	694	1471	721	1530	748	1587	775	1646	801	1709	827	1774	852	1843	878	1914	902	1989	927	2067	951	2147	975	2231	998	2318	1021	2408	1044	2500	1066	2596	1088	2695	1110	2797	1131	2902
4000 [188.8]	680	1496	707	1548	734	1604	760	1662	786	1723	812	1787	837	1854	862	1924	887	1998	911	2074	935	2153	958	2235	981	2321	1004	2409	1027	2501	1049	2595	1071	2693	1092	2793	1113	2897	1134	3003
4100 [193.5]	694	1570	720	1624	746	1681	772	1740	797	1803	822	1869	847	1938	872	2009	896	2084	919	2162	943	2243	965	2327	988	2414	1010	2504	1032	2597	1054	2693	1075	2792	1096	2895	1116	3000	1137	3108

NOTE: A/F—Drive left of the bold line, B/G—Drive right of bold lines.

Drive Package	A/F					B/G					C/H								
Motor H.P. [W]	2 [1491.4]					3 [2237.1]					3 [2237.1]								
Blower Sheave	AK79H					AK79H					AK79H								
Motor Sheave	1VL40*7/8					1VP50*7/8					1VP56*7/8								
Belt	A49					A50					A51								
Turns Open	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5	
RPM	802	754	707	662	616	555	1048	1005	960	916	870	827	787	743	700	658	617	576	536

NOTES: 1. Factory sheave settings are shown in bold type.

2. Do not set motor sheave below minimum or maximum turns open shown.

3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure

4. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—8.5 TON [29.9 kW] — 60 Hz — SIDEFLOW (Con't.)

Airflow		AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE					Pressure Drop MERV 8	Pressure Drop MERV 13	
		Total MBH	Sensible MBH	Power kW	Wet Coil	Horizontal Economizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-AED2000 & Concentric Adapter RXMC-DD01 (Drop)	Resistance — Inches of Water [kPa]			
CFM [L/s]												
2700 [1274]	0.97	0.93	0.99	0.07 [.02]	0.32 [0.08]	0.80 [.20]	0.65 [.16]	0.108 [.03]	0.070 [.02]			
2800 [1321]	0.98	0.94	0.99	0.07 [.02]	0.36 [0.09]	0.85 [.21]	0.69 [.17]	0.113 [.03]	0.078 [.02]			
2900 [1368]	0.98	0.96	0.99	0.08 [.02]	0.39 [0.10]	0.91 [.23]	0.74 [.18]	0.117 [.03]	0.085 [.02]			
3000 [1416]	0.99	0.97	1.00	0.08 [.02]	0.43 [0.11]	0.96 [.24]	0.79 [.20]	0.122 [.03]	0.093 [.02]			
3100 [1463]	0.99	0.99	1.00	0.09 [.02]	0.47 [0.12]	1.02 [.25]	0.86 [.21]	0.127 [.03]	0.100 [.02]			
3200 [1510]	1.00	1.00	1.00	0.10 [.02]	0.51 [0.13]	1.08 [.27]	0.92 [.23]	0.132 [.03]	0.108 [.03]			
3300 [1557]	1.01	1.01	1.00	0.10 [.03]	0.54 [0.14]	1.15 [.29]	0.99 [.25]	0.137 [.03]	0.115 [.03]			
3400 [1604]	1.01	1.03	1.01	0.11 [.03]	0.58 [0.14]	1.21 [.30]	1.05 [.26]	0.142 [.03]	0.123 [.03]			
3500 [1652]	1.02	1.04	1.01	0.11 [.03]	0.62 [0.15]	1.29 [.32]	1.09 [.27]	0.147 [.04]	0.131 [.03]			
3600 [1699]	1.02	1.06	1.01	0.12 [.03]	0.66 [0.16]	1.36 [.34]	1.13 [.28]	0.152 [.04]	0.138 [.03]			
3700 [1746]	1.03	1.07	1.02	0.13 [.03]	0.70 [0.17]	1.43 [.36]	1.18 [.29]	0.157 [.04]	0.146 [.04]			
3800 [1793]	1.03	1.09	1.02	0.13 [.03]	0.74 [0.18]	1.50 [.37]	1.23 [.31]	0.162 [.04]	0.153 [.04]			
3900 [1840]	1.04	1.10	1.02	0.14 [.04]	0.77 [0.19]	1.59 [.40]	1.31 [.33]	0.167 [.04]	0.161 [.04]			
4000 [1888]	1.05	1.12	1.02	0.15 [.04]	0.81 [0.20]	1.68 [.42]	1.38 [.34]	0.171 [.04]	0.169 [.04]			
4100 [1935]	1.05	1.13	1.03	0.15 [.04]	0.85 [0.21]	1.74 [.43]	1.44 [.36]	0.176 [.04]	0.176 [.04]			

*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE— 10 TON [35.1 kW] — 60 Hz — DOWNFLOW (Con't.)

Airflow		AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE				Pressure Drop MERV 8	Pressure Drop MERV 13
CFM [L/s]	Total MBH	Sensible MBH	Power kW	Wet Coil	Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-AEF3415 & Diffuser RXMC-DD02 (Flush)	Concentric Diffuser RXRN-AED3415 & Diffuser RXMC-DD02 (Drop)	Resistance — Inches of Water [kPa]		
3200 [1510]	0.97	0.93	0.99	0.10 [.02]	0.07 [.02]	0.74 [.18]	0.56 [.14]	0.132 [.03]	0.108 [.03]	
3300 [1557]	0.98	0.94	0.99	0.10 [.03]	0.08 [.02]	0.79 [.20]	0.59 [.15]	0.137 [.03]	0.115 [.03]	
3400 [1604]	0.98	0.96	0.99	0.11 [.03]	0.09 [.02]	0.84 [.21]	0.62 [.15]	0.142 [.03]	0.123 [.03]	
3500 [1652]	0.99	0.97	1.00	0.11 [.03]	0.10 [.02]	0.90 [.22]	0.66 [.16]	0.147 [.04]	0.131 [.03]	
3600 [1699]	0.99	0.98	1.00	0.12 [.03]	0.11 [.03]	0.95 [.24]	0.69 [.17]	0.152 [.04]	0.138 [.03]	
3700 [1746]	1.00	0.99	1.00	0.13 [.03]	0.12 [.03]	1.00 [.25]	0.73 [.18]	0.157 [.04]	0.146 [.04]	
3800 [1793]	1.00	1.01	1.00	0.13 [.03]	0.13 [.03]	1.04 [.26]	0.76 [.19]	0.162 [.04]	0.153 [.04]	
3900 [1840]	1.01	1.02	1.00	0.14 [.04]	0.15 [.04]	1.09 [.27]	0.80 [.20]	0.167 [.04]	0.161 [.04]	
4000 [1888]	1.01	1.03	1.01	0.15 [.04]	0.16 [.04]	1.13 [.28]	0.84 [.21]	0.171 [.04]	0.169 [.04]	
4100 [1935]	1.02	1.04	1.01	0.15 [.04]	0.17 [.04]	1.19 [.30]	0.88 [.22]	0.176 [.04]	0.176 [.04]	
4200 [1982]	1.02	1.06	1.01	0.16 [.04]	0.19 [.05]	1.24 [.31]	0.92 [.23]	0.181 [.04]	0.184 [.05]	
4300 [2029]	1.03	1.07	1.01	0.17 [.04]	0.20 [.05]	1.31 [.33]	0.97 [.24]	0.186 [.05]	0.191 [.05]	
4400 [2076]	1.03	1.08	1.01	0.18 [.04]	0.21 [.05]	1.37 [.34]	1.02 [.25]	0.191 [.05]	0.199 [.05]	
4500 [2123]	1.04	1.09	1.02	0.19 [.05]	0.23 [.06]	1.43 [.35]	1.07 [.27]	0.196 [.05]	0.207 [.05]	
4600 [2171]	1.04	1.11	1.02	0.19 [.05]	0.24 [.06]	1.48 [.37]	1.11 [.28]	0.201 [.05]	0.214 [.05]	
4700 [2218]	1.05	1.12	1.02	0.20 [.05]	0.26 [.06]	1.54 [.38]	1.15 [.29]	0.206 [.05]	0.222 [.05]	
4800 [2265]	1.05	1.13	1.02	0.21 [.05]	0.28 [.07]	1.59 [.40]	1.19 [.30]	0.211 [.05]	0.229 [.06]	

*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE— 10 TON [35.1 kW] — 60 Hz — SIDEFLOW (Con't.)

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE				Pressure Drop MERV 8	Pressure Drop MERV 13
	Total MBH	Sensible MBH	Power kW	Wet Coil	Horizontal Economizer RA Damper Open	Concentric Diffuser RXRN-AEF3415 & Diffuser RXMC-DD02 (Flush)	Concentric Diffuser RXRN-AED3415 & Diffuser RXMC-DD02 (Drop)		
Resistance — Inches of Water [kPa]									
3200 [1510]	0.97	0.93	0.99	0.10 [.02]	0.51 [0.13]	0.74 [0.18]	0.56 [0.14]	0.132 [.03]	0.108 [.03]
3300 [1557]	0.98	0.94	0.99	0.10 [.03]	0.54 [0.14]	0.79 [0.20]	0.59 [0.15]	0.137 [.03]	0.115 [.03]
3400 [1604]	0.98	0.96	0.99	0.11 [.03]	0.58 [0.14]	0.84 [0.21]	0.62 [0.15]	0.142 [.03]	0.123 [.03]
3500 [1652]	0.99	0.97	1.00	0.11 [.03]	0.62 [0.15]	0.90 [0.22]	0.66 [0.16]	0.147 [.04]	0.131 [.03]
3600 [1699]	0.99	0.98	1.00	0.12 [.03]	0.66 [0.16]	0.95 [0.24]	0.69 [0.17]	0.152 [.04]	0.138 [.03]
3700 [1746]	1.00	0.99	1.00	0.13 [.03]	0.70 [0.17]	1.00 [0.25]	0.73 [0.18]	0.157 [.04]	0.146 [.04]
3800 [1793]	1.00	1.01	1.00	0.13 [.03]	0.74 [0.18]	1.04 [0.26]	0.76 [0.19]	0.162 [.04]	0.153 [.04]
3900 [1840]	1.01	1.02	1.00	0.14 [.04]	0.77 [0.19]	1.09 [0.27]	0.80 [0.20]	0.167 [.04]	0.161 [.04]
4000 [1888]	1.01	1.03	1.01	0.15 [.04]	0.81 [0.20]	1.13 [0.28]	0.84 [0.21]	0.171 [.04]	0.169 [.04]
4100 [1935]	1.02	1.04	1.01	0.15 [.04]	0.85 [0.21]	1.19 [0.30]	0.88 [0.22]	0.176 [.04]	0.176 [.04]
4200 [1982]	1.02	1.06	1.01	0.16 [.04]	0.89 [0.22]	1.24 [0.31]	0.92 [0.23]	0.181 [.04]	0.184 [.05]
4300 [2029]	1.03	1.07	1.01	0.17 [.04]	0.93 [0.23]	1.31 [0.33]	0.97 [0.24]	0.186 [.05]	0.191 [.05]
4400 [2076]	1.03	1.08	1.01	0.18 [.04]	0.97 [0.24]	1.37 [0.34]	1.02 [0.25]	0.191 [.05]	0.199 [.05]
4500 [2123]	1.04	1.09	1.02	0.19 [.05]	1.01 [0.25]	1.43 [0.35]	1.07 [0.27]	0.196 [.05]	0.207 [.05]
4600 [2171]	1.04	1.11	1.02	0.19 [.05]	1.06 [0.26]	1.48 [0.37]	1.11 [0.28]	0.201 [.05]	0.214 [.05]
4700 [2218]	1.05	1.12	1.02	0.20 [.05]	1.10 [0.27]	1.54 [0.38]	1.15 [0.29]	0.206 [.05]	0.222 [.05]
4800 [2265]	1.05	1.13	1.02	0.21 [.05]	1.14 [0.28]	1.59 [0.40]	1.19 [0.30]	0.211 [.05]	0.229 [.06]

*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE— 12.5 TON [43.9 kW] — 60 Hz — DOWNFLOW

Air Flow CFM [L/s]	Model RGEDZ*150* Voltage 208/230, 460, 575 — 3 phase 60 Hz																													
	External Static Pressure—Inches of Water [kPa]																													
	0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]
4000 [1888]	766 [1776]	795 [1806]	824 [1842]	851 [1883]	878 [1931]	904 [1985]	929 [2044]	953 [2110]	976 [2181]	998 [2259]	1019 [2342]	1040 [2431]	1059 [2526]	1078 [2627]	1096 [2734]	1113 [2847]	1129 [2966]	1144 [3091]	1158 [3221]	1171 [3358]	1019 [2342]	1040 [2431]	1059 [2526]	1078 [2627]	1096 [2734]	1113 [2847]	1129 [2966]	1144 [3091]	1158 [3221]	1171 [3358]
4100 [1935]	778 [1820]	807 [1856]	835 [1897]	862 [1944]	888 [1997]	913 [2056]	937 [2120]	961 [2191]	983 [2268]	1005 [2350]	1026 [2439]	1045 [2533]	1064 [2634]	1082 [2740]	1099 [2852]	1116 [2970]	1131 [3094]	1145 [3224]	1159 [3360]	1171 [3502]	1026 [2439]	1045 [2533]	1064 [2634]	1082 [2740]	1099 [2852]	1116 [2970]	1131 [3094]	1145 [3224]	1159 [3360]	1171 [3502]
4200 [1982]	792 [1875]	820 [1915]	847 [1961]	873 [2014]	899 [2072]	923 [2136]	947 [2206]	969 [2282]	991 [2364]	1012 [2451]	1032 [2545]	1051 [2645]	1070 [2750]	1087 [2862]	1103 [2979]	1119 [3102]	1134 [3232]	1147 [3367]	1160 [3508]	1172 [3655]	1032 [2545]	1051 [2645]	1070 [2750]	1087 [2862]	1103 [2979]	1119 [3102]	1134 [3232]	1147 [3367]	1160 [3508]	1172 [3655]
4300 [2029]	806 [1938]	833 [1984]	859 [2036]	885 [2093]	910 [2156]	934 [2226]	957 [2301]	979 [2382]	1000 [2469]	1020 [2562]	1040 [2661]	1058 [2766]	1076 [2877]	1092 [2993]	1108 [3116]	1123 [3244]	1137 [3379]	1150 [3519]	1162 [3665]	1174 [3818]	1040 [2661]	1058 [2766]	1076 [2877]	1092 [2993]	1108 [3116]	1123 [3244]	1137 [3379]	1150 [3519]	1162 [3665]	1174 [3818]
4400 [2076]	820 [2012]	847 [2063]	873 [2119]	898 [2182]	922 [2251]	945 [2325]	967 [2406]	989 [2492]	1009 [2584]	1029 [2682]	1048 [2787]	1065 [2897]	1082 [3013]	1098 [3134]	1113 [3262]	1128 [3396]	1141 [3536]	1154 [3681]	1165 [3833]	1176 [3990]	1048 [2787]	1065 [2897]	1082 [3013]	1098 [3134]	1113 [3262]	1128 [3396]	1141 [3536]	1154 [3681]	1165 [3833]	1176 [3990]
4500 [2123]	835 [2095]	861 [2151]	886 [2213]	911 [2281]	934 [2355]	957 [2434]	978 [2520]	999 [2611]	1019 [2709]	1038 [2812]	1056 [2922]	1073 [3037]	1090 [3158]	1105 [3285]	1119 [3418]	1133 [3557]	1146 [3702]	1158 [3853]	1168 [4009]	1178 [4172]	1056 [2922]	1073 [3037]	1090 [3158]	1105 [3285]	1119 [3418]	1133 [3557]	1146 [3702]	1158 [3853]	1168 [4009]	1178 [4172]
4600 [2171]	851 [2187]	876 [2249]	901 [2316]	925 [2389]	947 [2468]	969 [2553]	990 [2644]	1010 [2740]	1030 [2843]	1048 [2952]	1065 [3066]	1082 [3187]	1097 [3313]	1112 [3445]	1126 [3584]	1139 [3728]	1151 [3878]	1162 [4034]	1172 [4196]	1182 [4363]	1065 [3066]	1082 [3187]	1097 [3313]	1112 [3445]	1126 [3584]	1139 [3728]	1151 [3878]	1162 [4034]	1172 [4196]	1182 [4363]
4800 [2265]	884 [2401]	908 [2473]	932 [2551]	954 [2634]	975 [2723]	996 [2819]	1016 [2920]	1034 [3027]	1052 [3140]	1069 [3259]	1085 [3384]	1101 [3515]	1115 [3652]	1128 [3795]	1141 [3943]	1153 [4098]	1163 [4258]	1173 [4425]	1182 [4597]	1190 [4775]	1085 [3384]	1101 [3515]	1115 [3652]	1128 [3795]	1141 [3943]	1153 [4098]	1163 [4258]	1173 [4425]	1182 [4597]	1190 [4775]
4900 [2312]	902 [2523]	925 [2599]	948 [2682]	969 [2771]	990 [2866]	1010 [2966]	1029 [3073]	1047 [3185]	1065 [3303]	1081 [3427]	1097 [3558]	1111 [3694]	1125 [3836]	1138 [3984]	1149 [4137]	1160 [4297]	1170 [4463]	1180 [4634]	1188 [4812]	1195 [4995]	1097 [3558]	1111 [3694]	1125 [3836]	1138 [3984]	1149 [4137]	1160 [4297]	1170 [4463]	1180 [4634]	1188 [4812]	1195 [4995]
5000 [2359]	920 [2653]	943 [2736]	965 [2824]	986 [2917]	1006 [3017]	1025 [3123]	1044 [3235]	1061 [3352]	1078 [3476]	1093 [3605]	1108 [3741]	1122 [3882]	1135 [4029]	1147 [4182]	1158 [4341]	1169 [4506]	1178 [4677]	1187 [4854]	1194 [5036]	1201 [5225]	1108 [3741]	1122 [3882]	1135 [4029]	1147 [4182]	1158 [4341]	1169 [4506]	1178 [4677]	1187 [4854]	1194 [5036]	1201 [5225]
5200 [2454]	958 [2944]	980 [3036]	1000 [3135]	1020 [3239]	1039 [3349]	1057 [3465]	1074 [3588]	1090 [3716]	1105 [3849]	1120 [3989]	1133 [4135]	1146 [4287]	1158 [4444]	1168 [4608]	1178 [4777]	1187 [4953]	1196 [5134]	1203 [5321]	1209 [5514]	1215 [5713]	1120 [3989]	1133 [4135]	1146 [4287]	1158 [4444]	1168 [4608]	1178 [4777]	1187 [4953]	1196 [5134]	1203 [5321]	1209 [5514]
5300 [2501]	978 [3103]	999 [3201]	1019 [3305]	1038 [3414]	1056 [3530]	1074 [3651]	1090 [3778]	1106 [3912]	1120 [4051]	1134 [4196]	1147 [4347]	1159 [4504]	1170 [4666]	1180 [4835]	1189 [5010]	1198 [5190]	1205 [5377]	1212 [5569]	1217 [5767]	1222 [5972]	1134 [4196]	1147 [4347]	1159 [4504]	1170 [4666]	1180 [4835]	1189 [5010]	1198 [5190]	1205 [5377]	1212 [5569]	1217 [5767]
5500 [2595]	1020 [3451]	1040 [3559]	1058 [3673]	1076 [3793]	1093 [3920]	1109 [4051]	1124 [4189]	1138 [4332]	1152 [4482]	1164 [4637]	1176 [4799]	1186 [4966]	1196 [5139]	1205 [5318]	1213 [5503]	1220 [5694]	1226 [5891]	—	—	—	1152 [4482]	1164 [4637]	1176 [4799]	1186 [4966]	1196 [5139]	1205 [5318]	1213 [5503]	1220 [5694]	1226 [5891]	—
5600 [2643]	1042 [3640]	1061 [3753]	1079 [3873]	1096 [3997]	1112 [4128]	1128 [4265]	1142 [4408]	1156 [4557]	1168 [4712]	1180 [4872]	1191 [5039]	1201 [5212]	1210 [5390]	1218 [5574]	1226 [5765]	—	—	—	—	—	1168 [4712]	1180 [4872]	1191 [5039]	1201 [5212]	1210 [5390]	1218 [5574]	1226 [5765]	—	—	—
5700 [2690]	1064 [3838]	1083 [3956]	1100 [4080]	1117 [4211]	1132 [4347]	1147 [4489]	1161 [4637]	1174 [4791]	1186 [4951]	1197 [5117]	1207 [5289]	1216 [5467]	1225 [5650]	—	—	—	—	—	—	—	1186 [4951]	1197 [5117]	1207 [5289]	1216 [5467]	1225 [5650]	—	—	—	—	—
5800 [2737]	1088 [4045]	1105 [4169]	1122 [4298]	1138 [4434]	1153 [4575]	1167 [4723]	1180 [4876]	1192 [5035]	1204 [5200]	1214 [5371]	1224 [5548]	—	—	—	—	—	—	—	—	—	1192 [5035]	1204 [5200]	1214 [5371]	1224 [5548]	—	—	—	—	—	—
5900 [2784]	1111 [4262]	1128 [4391]	1144 [4526]	1160 [4666]	1174 [4813]	1187 [4966]	1200 [5124]	1211 [5289]	1222 [5459]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6000 [2831]	1136 [4489]	1152 [4623]	1167 [4763]	1182 [4909]	1196 [5061]	1208 [5218]	1220 [5382]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTE: A/F—Drive left of the bold line, B/G—Drive right of bold lines.

Drive Package	A					B						
Motor H.P. [W]	3 [1118.5]					5 [2237.1]						
Blower Sheave	AK71H					AK79H						
Motor Sheave	1VL44*7/8					1VP60*1x1/8						
Belt	A48					A52						
Turns Open	0	1	2	3	4	5	0	1	2	3	4	5
RPM	1003	958	912	863	814	764	1220	1171	1127	1085	1039	994

NOTES: 1. Factory sheave settings are shown in bold type.

2. Do not set motor sheave below minimum or maximum turns open shown.

3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure

4. Drive data shown is for vertical airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE— 12.5 TON [43.9 kW] — 60 Hz — DOWNFLOW (Con't.)

Airflow		AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE				Pressure Drop MERV 8	Pressure Drop MERV 13
		Total MBH	Sensible MBH	Power kW	Wet Coil	Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-AEF3618 & Concentric Adapter RXMC-DD03 (Flush)	Concentric Diffuser RXRN-AED3618 & Concentric Adapter RXMC-DD03 (Drop)		
CFM [L/s]					Resistance — Inches of Water [kPa]					
4000 [1888]	1.01	1.03	1.01	0.15 [.04]	0.16 [.04]	0.76 [.19]	0.68 [.17]	0.132 [.03]	0.108 [.03]	
4100 [1935]	1.02	1.04	1.01	0.16 [.04]	0.17 [.04]	0.79 [.20]	0.72 [.18]	0.136 [.03]	0.114 [.03]	
4200 [1982]	1.02	1.06	1.01	0.17 [.04]	0.19 [.05]	0.82 [.20]	0.75 [.19]	0.140 [.03]	0.120 [.03]	
4300 [2029]	1.03	1.07	1.01	0.17 [.04]	0.20 [.05]	0.86 [.21]	0.79 [.20]	0.144 [.03]	0.126 [.03]	
4400 [2076]	1.03	1.08	1.01	0.18 [.05]	0.21 [.05]	0.90 [.22]	0.83 [.21]	0.148 [.04]	0.132 [.03]	
4500 [2123]	1.04	1.09	1.02	0.19 [.05]	0.23 [.06]	0.94 [.23]	0.86 [.21]	0.152 [.04]	0.138 [.03]	
4600 [2171]	1.04	1.11	1.02	0.20 [.05]	0.24 [.06]	0.98 [.24]	0.89 [.22]	0.156 [.04]	0.145 [.04]	
4700 [2218]	1.05	1.12	1.02	0.21 [.05]	0.26 [.06]	1.02 [.25]	0.94 [.23]	0.160 [.04]	0.151 [.04]	
4800 [2265]	1.05	1.13	1.02	0.21 [.05]	0.28 [.07]	1.06 [.26]	0.98 [.24]	0.164 [.04]	0.157 [.04]	
4900 [2312]	1.06	1.14	1.02	0.22 [.06]	0.29 [.07]	1.10 [.27]	1.01 [.25]	0.168 [.04]	0.163 [.04]	
5000 [2359]	1.06	1.16	1.03	0.23 [.06]	0.31 [.08]	1.14 [.28]	1.04 [.26]	0.172 [.04]	0.169 [.04]	
5100 [2407]	1.07	1.17	1.03	0.24 [.06]	0.33 [.08]	1.18 [.29]	1.07 [.27]	0.176 [.04]	0.175 [.04]	
5200 [2454]	1.07	1.18	1.03	0.25 [.06]	0.35 [.09]	1.22 [.30]	1.10 [.27]	0.180 [.04]	0.182 [.04]	
5300 [2501]	1.08	1.19	1.03	0.26 [.06]	0.36 [.09]	1.27 [.32]	1.15 [.29]	0.184 [.05]	0.188 [.05]	
5400 [2548]	1.08	1.21	1.03	0.27 [.07]	0.38 [.09]	1.33 [.33]	1.20 [.30]	0.188 [.05]	0.194 [.05]	
5500 [2595]	1.09	1.22	1.04	0.28 [.07]	0.40 [.10]	1.37 [.34]	1.25 [.31]	0.192 [.05]	0.200 [.05]	
5600 [2643]	1.09	1.23	1.04	0.29 [.07]	0.42 [.10]	1.42 [.35]	1.30 [.32]	0.196 [.05]	0.206 [.05]	
5700 [2690]	1.10	1.24	1.04	0.30 [.07]	0.44 [.11]	1.47 [.37]	1.34 [.33]	0.200 [.05]	0.212 [.05]	
5800 [2737]	1.10	1.26	1.04	0.31 [.08]	0.46 [.11]	1.52 [.38]	1.38 [.34]	0.204 [.05]	0.219 [.05]	
5900 [2784]	1.10	1.27	1.05	0.32 [.08]	0.48 [.12]	1.56 [.39]	1.42 [.35]	0.208 [.05]	0.225 [.05]	
6000 [2831]	1.11	1.28	1.05	0.33 [.08]	0.51 [.13]	1.60 [.40]	1.45 [.36]	0.212 [.05]	0.231 [.06]	

*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE— 12.5 TON [43.9 kW] — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	Model RGEDZ*150* Voltage 208/230, 460, 575 — 3 phase 60 Hz																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	External Static Pressure—Inches of Water [kPa]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
4000 [1888]	—	—	791 [1757]	819 [1824]	846 [1892]	872 [1961]	897 [2031]	922 [2101]	946 [2173]	970 [2245]	993 [2318]	1015 [2392]	1036 [2467]	1057 [2542]	1077 [2619]	1096 [2696]	1115 [2774]	1133 [2853]	1150 [2933]	1167 [3014]	1183 [3095]	1199 [3176]	1214 [3257]	1229 [3338]	1244 [3419]	1259 [3500]	1274 [3581]	1289 [3662]	1304 [3743]	1319 [3824]	1334 [3905]	1349 [3986]	1364 [4067]	1379 [4148]	1394 [4229]	1409 [4310]	1424 [4391]	1439 [4472]	1454 [4553]	1469 [4634]	1484 [4715]	1499 [4796]	1514 [4877]	1529 [4958]	1544 [5039]	1559 [5120]	1574 [5201]	1589 [5282]	1604 [5363]	1619 [5444]	1634 [5525]	1649 [5606]	1664 [5687]	1679 [5768]	1694 [5849]	1709 [5930]	1724 [6011]	1739 [6092]	1754 [6173]	1769 [6254]	1784 [6335]	1799 [6416]	1814 [6497]	1829 [6578]	1844 [6659]	1859 [6740]	1874 [6821]	1889 [6902]	1904 [6983]	1919 [7064]	1934 [7145]	1949 [7226]	1964 [7307]	1979 [7388]	1994 [7469]	2009 [7550]	2024 [7631]	2039 [7712]	2054 [7793]	2069 [7874]	2084 [7955]	2099 [8036]	2114 [8117]	2129 [8198]	2144 [8279]	2159 [8360]	2174 [8441]	2189 [8522]	2204 [8603]	2219 [8684]	2234 [8765]	2249 [8846]	2264 [8927]	2279 [9008]	2294 [9089]	2309 [9170]	2324 [9251]	2339 [9332]	2354 [9413]	2369 [9494]	2384 [9575]	2399 [9656]	2414 [9737]	2429 [9818]	2444 [9899]	2459 [9980]	2474 [10061]	2489 [10142]	2504 [10223]	2519 [10304]	2534 [10385]	2549 [10466]	2564 [10547]	2579 [10628]	2594 [10709]	2609 [10790]	2624 [10871]	2639 [10952]	2654 [11033]	2669 [11114]	2684 [11195]	2699 [11276]	2714 [11357]	2729 [11438]	2744 [11519]	2759 [11600]	2774 [11681]	2789 [11762]	2804 [11843]	2819 [11924]	2834 [12005]	2849 [12086]	2864 [12167]	2879 [12248]	2894 [12329]	2909 [12410]	2924 [12491]	2939 [12572]	2954 [12653]	2969 [12734]	2984 [12815]	2999 [12896]	3014 [12977]	3029 [13058]	3044 [13139]	3059 [13220]	3074 [13301]	3089 [13382]	3104 [13463]	3119 [13544]	3134 [13625]	3149 [13706]	3164 [13787]	3179 [13868]	3194 [13949]	3209 [14030]	3224 [14111]	3239 [14192]	3254 [14273]	3269 [14354]	3284 [14435]	3299 [14516]	3314 [14597]	3329 [14678]	3344 [14759]	3359 [14840]	3374 [14921]	3389 [15002]	3404 [15083]	3419 [15164]	3434 [15245]	3449 [15326]	3464 [15407]	3479 [15488]	3494 [15569]	3509 [15650]	3524 [15731]	3539 [15812]	3554 [15893]	3569 [15974]	3584 [16055]	3599 [16136]	3614 [16217]	3629 [16298]	3644 [16379]	3659 [16460]	3674 [16541]	3689 [16622]	3704 [16703]	3719 [16784]	3734 [16865]	3749 [16946]	3764 [17027]	3779 [17108]	3794 [17189]	3809 [17270]	3824 [17351]	3839 [17432]	3854 [17513]	3869 [17594]	3884 [17675]	3899 [17756]	3914 [17837]	3929 [17918]	3944 [18000]	3959 [18081]	3974 [18162]	3989 [18243]	4004 [18324]	4019 [18405]	4034 [18486]	4049 [18567]	4064 [18648]	4079 [18729]	4094 [18810]	4109 [18891]	4124 [18972]	4139 [19053]	4154 [19134]	4169 [19215]	4184 [19296]	4199 [19377]	4214 [19458]	4229 [19539]	4244 [19620]	4259 [19701]	4274 [19782]	4289 [19863]	4304 [19944]	4319 [20025]	4334 [20106]	4349 [20187]	4364 [20268]	4379 [20349]	4394 [20430]	4409 [20511]	4424 [20592]	4439 [20673]	4454 [20754]	4469 [20835]	4484 [20916]	4499 [21000]	4514 [21081]	4529 [21162]	4544 [21243]	4559 [21324]	4574 [21405]	4589 [21486]	4604 [21567]	4619 [21648]	4634 [21729]	4649 [21810]	4664 [21891]	4679 [21972]	4694 [22053]	4709 [22134]	4724 [22215]	4739 [22296]	4754 [22377]	4769 [22458]	4784 [22539]	4799 [22620]	4814 [22701]	4829 [22782]	4844 [22863]	4859 [22944]	4874 [23025]	4889 [23106]	4904 [23187]	4919 [23268]	4934 [23349]	4949 [23430]	4964 [23511]	4979 [23592]	4994 [23673]	5009 [23754]	5024 [23835]	5039 [23916]	5054 [24000]	5069 [24081]	5084 [24162]	5099 [24243]	5114 [24324]	5129 [24405]	5144 [24486]	5159 [24567]	5174 [24648]	5189 [24729]	5204 [24810]	5219 [24891]	5234 [24972]	5249 [25053]	5264 [25134]	5279 [25215]	5294 [25296]	5309 [25377]	5324 [25458]	5339 [25539]	5354 [25620]	5369 [25701]	5384 [25782]	5399 [25863]	5414 [25944]	5429 [26025]	5444 [26106]	5459 [26187]	5474 [26268]	5489 [26349]	5504 [26430]	5519 [26511]	5534 [26592]	5549 [26673]	5564 [26754]	5579 [26835]	5594 [26916]	5609 [27000]	5624 [27081]	5639 [27162]	5654 [27243]	5669 [27324]	5684 [27405]	5699 [27486]	5714 [27567]	5729 [27648]	5744 [27729]	5759 [27810]	5774 [27891]	5789 [27972]	5804 [28053]	5819 [28134]	5834 [28215]	5849 [28296]	5864 [28377]	5879 [28458]	5894 [28539]	5909 [28620]	5924 [28701]	5939 [28782]	5954 [28863]	5969 [28944]	5984 [29025]	5999 [29106]	6014 [29187]	6029 [29268]	6044 [29349]	6059 [29430]	6074 [29511]	6089 [29592]	6104 [29673]	6119 [29754]	6134 [29835]	6149 [29916]	6164 [30000]	6179 [30081]	6194 [30162]	6209 [30243]	6224 [30324]	6239 [30405]	6254 [30486]	6269 [30567]	6284 [30648]	6299 [30729]	6314 [30810]	6329 [30891]	6344 [30972]	6359 [31053]	6374 [31134]	6389 [31215]	6404 [31296]	6419 [31377]	6434 [31458]	6449 [31539]	6464 [31620]	6479 [31701]	6494 [31782]	6509 [31863]	6524 [31944]	6539 [32025]	6554 [32106]	6569 [32187]	6584 [32268]	6599 [32349]	6614 [32430]	6629 [32511]	6644 [32592]	6659 [32673]	6674 [32754]	6689 [32835]	6704 [32916]	6719 [33000]	6734 [33081]	6749 [33162]	6764 [33243]	6779 [33324]	6794 [33405]	6809 [33486]	6824 [33567]	6839 [33648]	6854 [33729]	6869 [33810]	6884 [33891]	6899 [33972]	6914 [34053]	6929 [34134]	6944 [34215]	6959 [34296]	6974 [34377]	6989 [34458]	7004 [34539]	7019 [34620]	7034 [34701]	7049 [34782]	7064 [34863]	7079 [34944]	7094 [35025]	7109 [35106]	7124 [35187]	7139 [35268]	7154 [35349]	7169 [35430]	7184 [35511]	7199 [35592]	7214 [35673]	7229 [35754]	7244 [35835]	7259 [35916]	7274 [36000]	7289 [36081]	7304 [36162]	7319 [36243]	7334 [36324]	7349 [36405]	7364 [36486]	7379 [36567]	7394 [36648]	7409 [36729]	7424 [36810]	7439 [36891]	7454 [36972]	7469 [37053]	7484 [37134]	7499 [37215]	7514 [37296]	7529 [37377]	7544 [37458]	7559 [37539]	7574 [37620]	7589 [37701]	7604 [37782]	7619 [37863]	7634 [37944]	7649 [38025]	7664 [38106]	7679 [38187]	7694 [38268]	7709 [38349]	7724 [38430]	7739 [38511]	7754 [38592]	7769 [38673]	7784 [38754]	7799 [38835]	7814 [38916]	7829 [39000]	7844 [39081]	7859 [39162]	7874 [39243]	7889 [39324]	7904 [39405]	7919 [39486]	7934 [39567]	7949 [39648]	7964 [39729]	7979 [39810]	7994 [39891]	8009 [39972]	8024 [40053]	8039 [40134]	8054 [40215]	8069 [40296]	8084 [40377]	8099 [40458]	8114 [40539]	8129 [40620]	8144 [40701]	8159 [40782]	8174 [40863]	8189 [40944]	8204 [41025]	8219 [41106]	8234 [41187]	8249 [41268]	8264 [41349]	8279 [41430]	8294 [41511]	8309 [41592]	8324 [41673]	8339 [41754]	8354 [41835]	8369 [41916]	8384 [42000]	8399 [42081]	8414 [42162]	8429 [42243]	8444 [42324]	8459 [42405]	8474 [42486]	8489 [42567]	8504 [42648]	8519 [42729]	8534 [42810]	8549 [42891]	8564 [42972]	8579 [43053]	8594 [43134]	8609 [43215]	8624 [43296]	8639 [43377]	8654 [43458]	8669 [43539]	8684 [43620]	8699 [43701]	8714 [43782]	8729 [43863]	8744 [43944]	8759 [44025]	8774 [44106]	8789 [44187]	8804 [44268]	8819 [44349]	8834 [44430]	8849 [44511]	8864 [44592]	8879 [44673]	8894 [44754]	8909 [44835]	8924 [44916]	8939 [45000]	8954 [45081]	8969 [45162]	8984 [45243]	8999 [45324]	9014 [45405]	9029 [45486]	9044 [45567]	9059 [45648]	9074 [45729]	9089 [45810]	9104 [45891]	9119 [45972]	9134 [46053]	9149 [46134]	9164 [46215]	9179 [46296]	9194 [46377]	9209 [46458]	9224 [46539]	9239 [46620]	9254 [46701]	9269 [46782]	9284 [46863]	9299 [46944]	9314 [47025]	9329 [47106]	9344 [47187]	9359 [47268]	9374 [47349]	9389 [47430]	9404 [47511]	9419 [47592]	9434 [47673]	9449 [47754]	9464 [47835]	9479 [47916]	9494 [48000]	9509 [48081]	9524 [48162]	9539 [48243]	9554 [48324]	9569 [48405]	9584 [48486]	9599 [48567]	9614 [48648]	9629 [48729]	9644 [48810]	9659 [48891]	9674 [48972]	9689 [49053]	9704 [49134]	9719 [49215]	9734 [49296]	9749 [49377]	9764 [49458]	9779 [49539]	9794 [49620]	9809 [49701]	9824 [49782]	9839 [49863]	9854 [49944]	9869 [50025]	9884 [50106]	9899 [50187]	9914 [50268]	9929 [50349]	9944 [50430]	9959 [50511]	9974 [50592]	9989 [50673]	10004 [50754]	10019 [50835]	10034 [50916]	10049 [51000]	10064 [51081]	10079 [51162]	10094 [51243]	10109 [51324]	10124 [51405]	10139 [51486]	10154 [51567]	10169 [51648]	10184 [51729]	10199 [51810]	10214 [51891]	10229 [51972]	10244 [52053]	10259 [52134]	10274 [52215]	10289 [52296]	10304 [52377]	10319 [52458]	10334 [52539]	10349 [52620]	10364 [52701]	10379 [52782]	10394 [52863]	10409 [52944]	10424 [53025]	10439 [53106]	10454 [53187]	10469 [53268]	10484 [53349]	10499 [53430]	10514 [53511]	10529 [53592]	10544 [53673]	10559 [53754]	10574 [53835]	10589 [53916]	10604 [54000]	10619 [54081]	10634 [54162]	10649 [54243]	10664 [54324]	10679 [54405]	10694 [54486]	10709 [54567]	10724 [54648]	10739 [54729]	10754 [54810]	10769 [54891]	10784 [54972]	10799 [55053]	10814 [55134]	10829 [55215]	10844 [55296]	10859 [55377]	10874 [55458]	10889 [55539]	10904 [55620]	10919 [55701]	10934 [55782]	10949 [55863]	10964 [55944]	10979 [56025]	10994 [56106]	11009 [56187]	11024 [56268]	11039 [56349]	11054 [56430]	11069 [56511]	11084 [56592]	11099 [56673]	11114 [56754]	11129 [56835]	11144 [56916]	11159 [57000]	11174 [57081]	11189 [57162]	11204 [57243]	11219 [57324]	11234 [57405]	11249 [57486]	11264 [57567]	11279 [57648]	11294 [57729]	11309 [57810]	11324 [57891]	11339 [57972]	11354 [58053]	11369 [58134]	11384 [58215]	11399 [58296]	11414 [58377]	11429 [58458]	11444 [58539]	11459 [58620]	11474 [58701]	11489 [58782]	11504 [58863]	11519 [58944]	11534 [59025]	11549 [59106]	11564 [59187]	11579 [59268]	11594 [59349]	11609 [59430]	11624 [59511]	11639 [59592]	11654 [59673]	11669 [59754]	11684 [59835]	11699 [59916]	11714 [60000]	11729 [60081]	11744 [60162]	11759 [60243]	11774 [60324]	11789 [60405]	11804 [60486]	11819 [60567]	11834 [60648]	11849 [60729]	11864 [60810]	11879 [60891]	11894 [60972]	11909 [61053]	11924 [61134]	11939 [61215]	11954 [61296]

AIRFLOW PERFORMANCE— 12.5 TON [43.9 kW] — 60 Hz — SIDEFLOW (Con't.)

Airflow		AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE				Pressure Drop MERV 8	Pressure Drop MERV 13
CFM [L/s]	Total MBH	Sensible MBH	Power kW	Wet Coil	Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-AEF3618 & Concentric Adapter RXMC-DD03 (Flush)	Concentric Diffuser RXRN-AED3618 & Concentric Adapter RXMC-DD03 (Drop)	Resistance — Inches of Water [kPa]	Pressure Drop MERV 8	Pressure Drop MERV 13
4000 [1888]	1.01	1.03	1.01	0.15 [0.04]	0.73 [0.18]	0.76 [0.19]	0.68 [0.17]	0.132 [0.03]	0.132 [0.03]	0.108 [0.03]
4100 [1935]	1.02	1.04	1.01	0.16 [0.04]	0.78 [0.19]	0.79 [0.20]	0.72 [0.18]	0.136 [0.03]	0.136 [0.03]	0.114 [0.03]
4200 [1982]	1.02	1.06	1.01	0.17 [0.04]	0.83 [0.21]	0.82 [0.20]	0.75 [0.19]	0.140 [0.03]	0.140 [0.03]	0.120 [0.03]
4300 [2029]	1.03	1.07	1.01	0.17 [0.04]	0.88 [0.22]	0.86 [0.21]	0.79 [0.20]	0.144 [0.03]	0.144 [0.03]	0.126 [0.03]
4400 [2076]	1.03	1.08	1.01	0.18 [0.05]	0.93 [0.23]	0.90 [0.22]	0.83 [0.21]	0.148 [0.04]	0.148 [0.04]	0.132 [0.03]
4500 [2123]	1.04	1.09	1.02	0.19 [0.05]	0.98 [0.24]	0.94 [0.23]	0.86 [0.21]	0.152 [0.04]	0.152 [0.04]	0.138 [0.03]
4600 [2171]	1.04	1.11	1.02	0.20 [0.05]	1.03 [0.26]	0.98 [0.24]	0.89 [0.22]	0.156 [0.04]	0.156 [0.04]	0.145 [0.04]
4700 [2218]	1.05	1.12	1.02	0.21 [0.05]	1.07 [0.27]	1.02 [0.25]	0.94 [0.23]	0.160 [0.04]	0.160 [0.04]	0.151 [0.04]
4800 [2265]	1.05	1.13	1.02	0.21 [0.05]	1.12 [0.28]	1.06 [0.26]	0.98 [0.24]	0.164 [0.04]	0.164 [0.04]	0.157 [0.04]
4900 [2312]	1.06	1.14	1.02	0.22 [0.06]	1.17 [0.29]	1.10 [0.27]	1.01 [0.25]	0.168 [0.04]	0.168 [0.04]	0.163 [0.04]
5000 [2359]	1.06	1.16	1.03	0.23 [0.06]	1.21 [0.30]	1.14 [0.28]	1.04 [0.26]	0.172 [0.04]	0.172 [0.04]	0.169 [0.04]
5100 [2407]	1.07	1.17	1.03	0.24 [0.06]	1.26 [0.31]	1.18 [0.29]	1.07 [0.27]	0.176 [0.04]	0.176 [0.04]	0.175 [0.04]
5200 [2454]	1.07	1.18	1.03	0.25 [0.06]	1.30 [0.32]	1.22 [0.30]	1.10 [0.27]	0.180 [0.04]	0.180 [0.04]	0.182 [0.04]
5300 [2501]	1.08	1.19	1.03	0.26 [0.06]	1.35 [0.34]	1.27 [0.32]	1.15 [0.29]	0.184 [0.05]	0.184 [0.05]	0.188 [0.05]
5400 [2548]	1.08	1.21	1.03	0.27 [0.07]	1.39 [0.35]	1.33 [0.33]	1.20 [0.30]	0.188 [0.05]	0.188 [0.05]	0.194 [0.05]
5500 [2595]	1.09	1.22	1.04	0.28 [0.07]	1.44 [0.36]	1.37 [0.34]	1.25 [0.31]	0.192 [0.05]	0.192 [0.05]	0.200 [0.05]
5600 [2643]	1.09	1.23	1.04	0.29 [0.07]	1.48 [0.37]	1.42 [0.35]	1.30 [0.32]	0.196 [0.05]	0.196 [0.05]	0.206 [0.05]
5700 [2690]	1.10	1.24	1.04	0.30 [0.07]	1.52 [0.38]	1.47 [0.37]	1.34 [0.33]	0.200 [0.05]	0.200 [0.05]	0.212 [0.05]
5800 [2737]	1.10	1.26	1.04	0.31 [0.08]	1.57 [0.39]	1.52 [0.38]	1.38 [0.34]	0.204 [0.05]	0.204 [0.05]	0.219 [0.05]
5900 [2784]	1.10	1.27	1.05	0.32 [0.08]	1.61 [0.40]	1.56 [0.39]	1.42 [0.35]	0.208 [0.05]	0.208 [0.05]	0.225 [0.05]
6000 [2831]	1.11	1.28	1.05	0.33 [0.08]	1.65 [0.41]	1.60 [0.40]	1.45 [0.36]	0.212 [0.05]	0.212 [0.05]	0.231 [0.06]

*Multiply correction factor times gross performance data resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

ELECTRICAL DATA – (-)GEDZT SERIES							
		090ACF15 090ACF20	090ACG15 090ACG20 090ACH15 090ACH20	090ADF15 090ADF20	090ADG15 090ADG20 090ADH15 090ADH20	090AYF15 090AYF20	090AYG15 090AYG20 090AYH15 090AYH20
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	523-632	523-632
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	41	44	17	19	15	16
	Minimum Overcurrent Protection Device Size	50	50	20	25	20	20
	Maximum Overcurrent Protection Device Size	60	60	25	25	20	20
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	RPM	3500	3500	3500	3500	3500	3500
	HP, Compressor 1	7	7	7	7	7	7
	Amps (RLA), Comp. 1	25.3	25.3	9.6	9.6	8.4	8.4
	Amps (LRA), Comp. 1	184	184	84	84	60	60
Condenser Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1
	HP	1/5	1/5	1/5	1/5	1/5	1/5
	Amps (FLA, each)	1.2	1.2	0.8	0.8	0.6	0.6
	Amps (LRA, each)	2.3	2.3	1.4	1.4	1	1
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	2	3	2	3	2	3
	Amps (FLA, each)	6.6	9.1	3.2	4.6	2.5	3.5
	Amps (LRA, each)	47	74.5	24	38.1	19	30

ELECTRICAL DATA – (-)GEDZT SERIES

		102ACF15 102ACF22	102ACG15 102ACG22	102ACH15 102ACH22	102ADF15 102ADF22	102ADG15 102ADG22	102ADH15 102ADH22
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	46	48	51	21	22	24
	Minimum Overcurrent Protection Device Size	60	60	60	25	25	30
	Maximum Overcurrent Protection Device Size	70	70	70	30	30	35
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	RPM	3500	3500	3500	3500	3500	3500
	HP, Compressor 1	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 1	28.8	28.8	28.8	12.5	12.5	12.5
	Amps (LRA), Comp. 1	223	223	223	100	100	100
Condenser Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	460
	Phase	1	1	1	1	1	1
	HP	1/5	1/5	1/5	1/5	1/5	1/5
	Amps (FLA, each)	1.2	1.2	1.2	0.8	0.8	0.8
	Amps (LRA, each)	2.3	2.3	2.3	1.4	1.4	1.4
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	HP	2	3	3	2	3	3
	Amps (FLA, each)	7	9.1	12	3.5	4.6	6
	Amps (LRA, each)	47	74.5	74.5	24	38.1	38.1

ELECTRICAL DATA – (-)GEDZT SERIES			
		102AYF15 102AYF22	102AYG15 102AYG22 102AYH15 102AYH22
Unit Information	Unit Operating Voltage Range	523-632	523-632
	Volts	575	575
	Phase	3	3
	Hz	60	60
	Minimum Circuit Ampacity	16	17
	Minimum Overcurrent Protection Device Size	20	20
	Maximum Overcurrent Protection Device Size	25	25
Compressor Motor	No.	1	1
	Volts	575	575
	Phase	3	3
	RPM	3500	3500
	HP, Compressor 1	7 1/2	7 1/2
	Amps (RLA), Comp. 1	9.7	9.7
	Amps (LRA), Comp. 1	70	70
Condenser Motor	No.	2	2
	Volts	575	575
	Phase	1	1
	HP	1/5	1/5
	Amps (FLA, each)	0.6	0.6
	Amps (LRA, each)	1.0	1.0
Evaporator Fan	No.	1	1
	Volts	575	575
	Phase	3	3
	HP	2	3
	Amps (FLA, each)	2.5	3.5
	Amps (LRA, each)	19.0	30.0

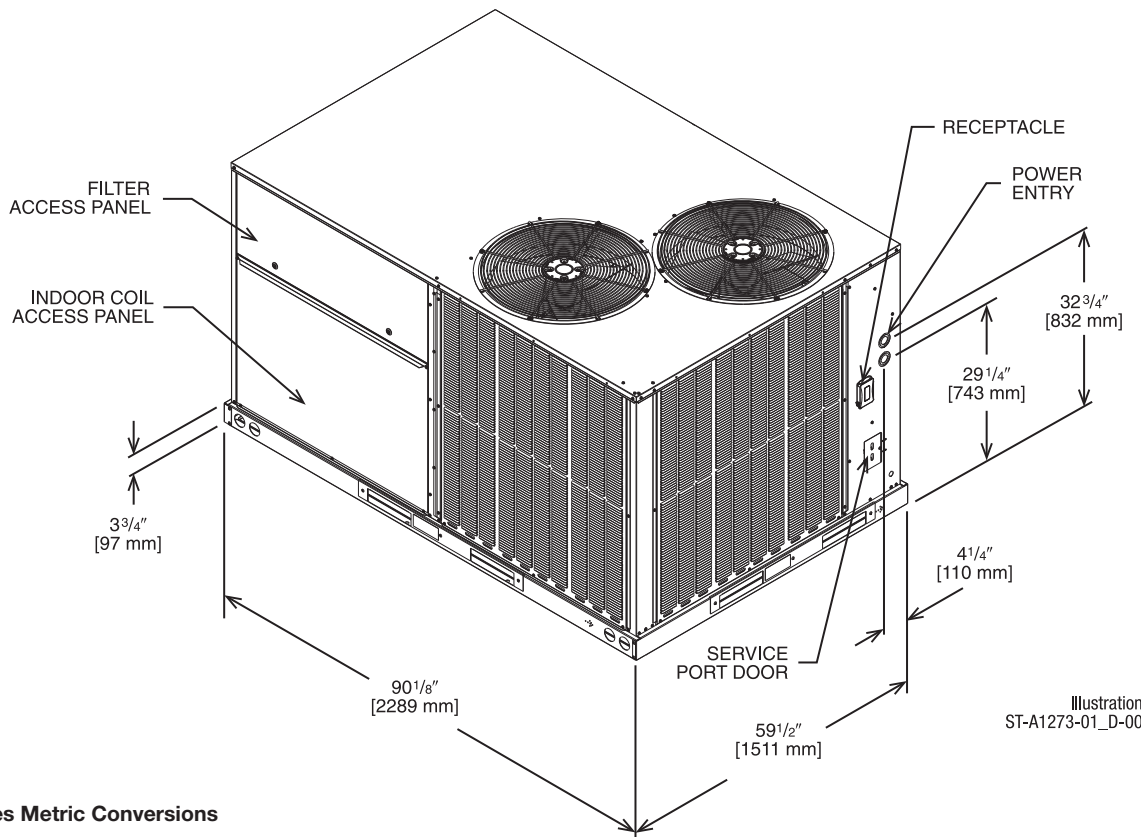
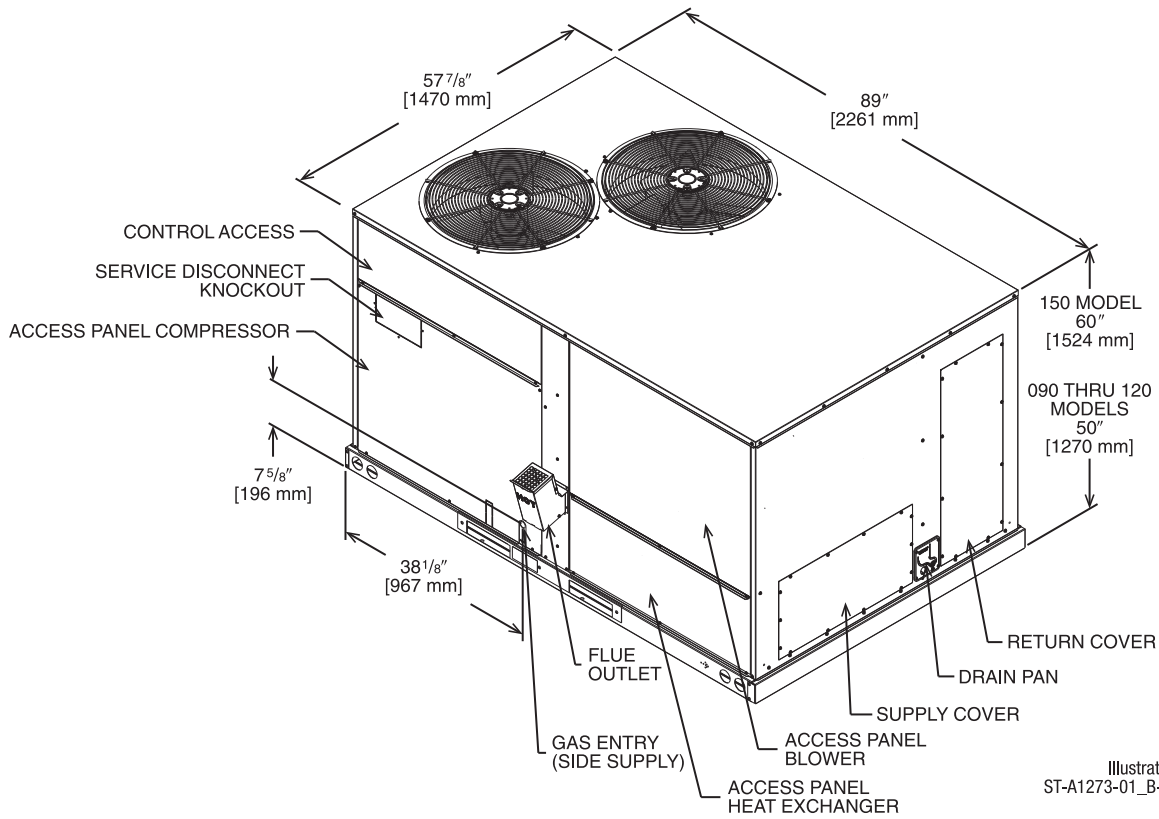
ELECTRICAL DATA – (-)GEDZT SERIES

		120ACF15 120ACF22	120ACG15 120ACG22	120ACH15 120ACH22	120ADF15 120ADF22	120ADG15 120ADG22	120ADH15 120ADH22
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	54	56	58	26	27	28
	Minimum Overcurrent Protection Device Size	70	70	70	30	35	35
	Maximum Overcurrent Protection Device Size	80	80	90	35	40	40
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	RPM	3500	3500	3500	3500	3500	3500
	HP, Compressor 1	10	10	10	10	10	10
	Amps (RLA), Comp. 1	32.6	32.6	32.6	14.8	14.8	14.8
	Amps (LRA), Comp. 1	240	240	240	130	130	130
Condenser Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	460
	Phase	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4	2.4	2.4	1.4	1.4	1.4
	Amps (LRA, each)	4.7	4.7	4.7	2.4	2.4	2.4
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	HP	2	3	3	2	3	3
	Amps (FLA, each)	7.9	10.1	12	3.9	5.1	6
	Amps (LRA, each)	47	74.5	74.5	24	38.1	38.1

ELECTRICAL DATA – (-)GEDZT SERIES			
		120AYF15 120AYF22	120AYG15 120AYG22 120AYH15 120AYH22
Unit Information	Unit Operating Voltage Range	523-632	523-632
	Volts	575	575
	Phase	3	3
	Hz	60	60
	Minimum Circuit Ampacity	19	20
	Minimum Overcurrent Protection Device Size	25	25
	Maximum Overcurrent Protection Device Size	25	30
Compressor Motor	No.	1	1
	Volts	575	575
	Phase	3	3
	RPM	3500	3500
	HP, Compressor 1	10	10
	Amps (RLA), Comp. 1	11.1	11.1
	Amps (LRA), Comp. 1	93.7	93.7
Condenser Motor	No.	2	2
	Volts	575	575
	Phase	1	1
	HP	1/3	1/3
	Amps (FLA, each)	1.0	1.0
	Amps (LRA, each)	4.7	4.7
Evaporator Fan	No.	1	1
	Volts	575	575
	Phase	3	3
	HP	2	3
	Amps (FLA, each)	2.5	3.5
	Amps (LRA, each)	19.0	30.0

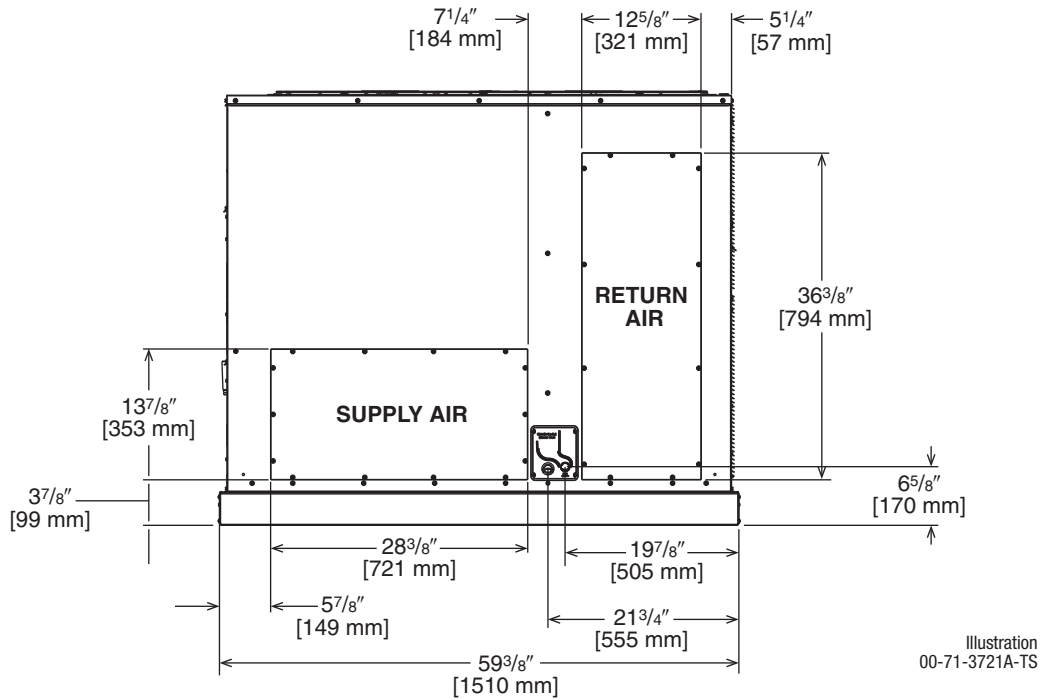
ELECTRICAL DATA – (-)GEDZT SERIES

		150ACF15 150ACF22	150ACG15 150ACG22	150ADF15 150ADF22	150ADG15 150ADG22	150AYF15 150AYF22	150AYG15 150AYG22
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	523-632	523-632
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	70	75	34	37	25	27
	Minimum Overcurrent Protection Device Size	80	90	40	40	30	30
	Maximum Overcurrent Protection Device Size	90	90	40	45	30	30
Compressor Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	RPM	3500	3500	3500	3500	3500	3500
	HP, Compressor 1	6	6	6	6	6	6
	Amps (RLA), Comp. 1	22.4	22.4	10.6	10.6	7.7	7.7
	Amps (LRA), Comp. 1	149	149	75	75	54	54
	HP, Compressor 2	6	6	6	6	6	6
	Amps (RLA), Comp. 2	22.4	22.4	10.6	10.6	7.7	7.7
	Amps (LRA), Comp. 2	149	149	75	75	54	54
Condenser Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	460	460	575	575
	Phase	1	1	1	1	1	1
	HP	3/4	3/4	3/4	3/4	3/4	3/4
	Amps (FLA, each)	4.2	4.2	2.3	2.3	1.6	1.6
	Amps (LRA, each)	10.1	10.1	4.9	4.9	3.4	3.4
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575
	Phase	3	3	3	3	3	3
	HP	3	5	3	5	3	5
	Amps (FLA, each)	10.4	16	5.2	8	4.4	5.9
	Amps (LRA, each)	74.5	95	38.1	47	30	38

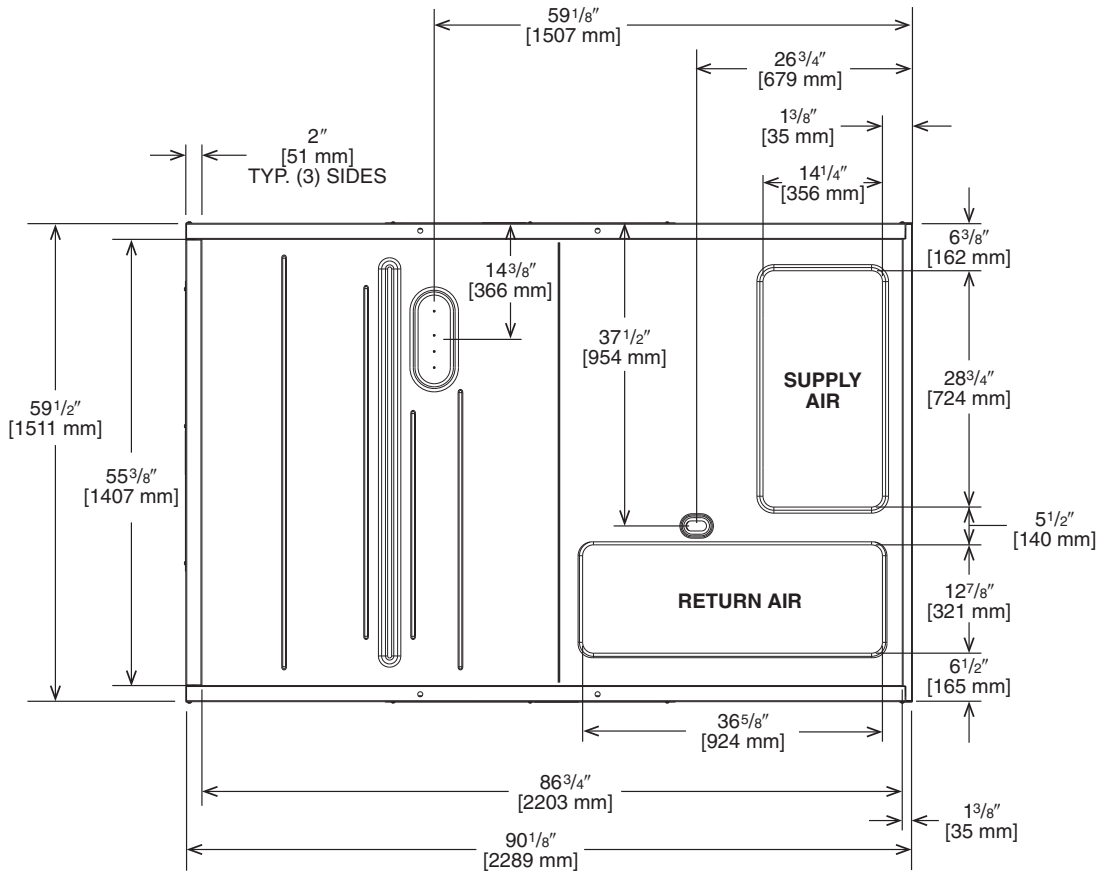


[] Designates Metric Conversions

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS



SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS



[] Designates Metric Conversions

WEIGHTS

Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
7.5-12.5 [21.1-44.0]	26%	34%	17%	23%

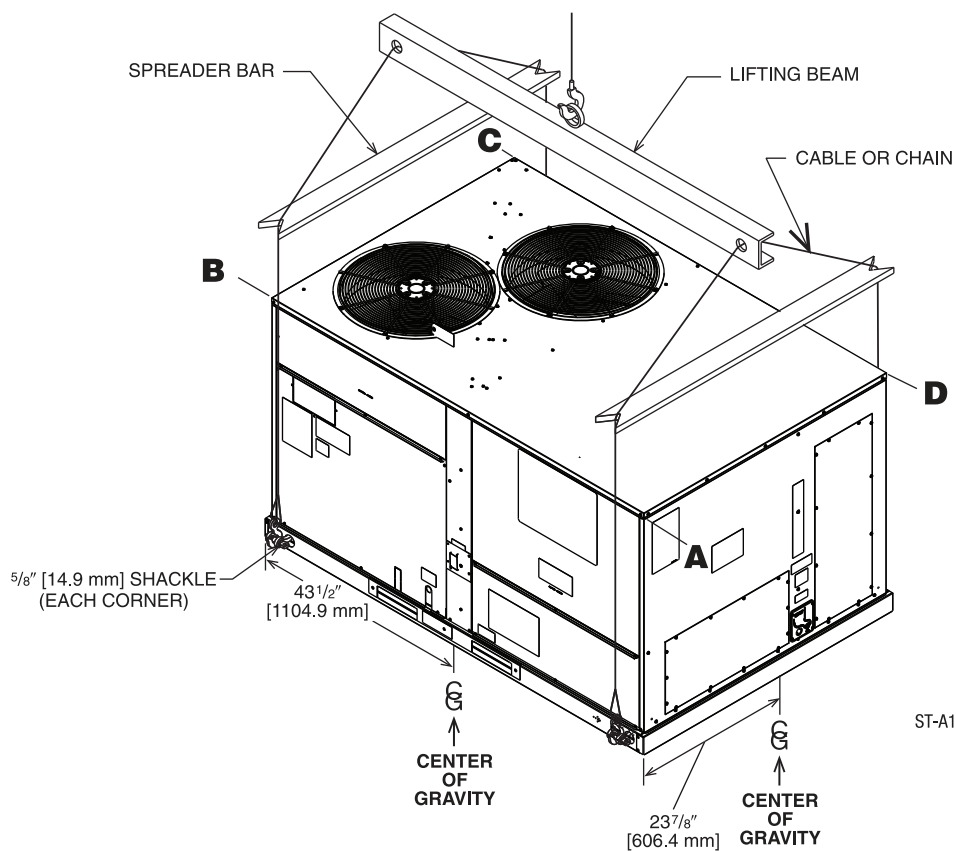


Illustration
ST-A1273-01_J-00

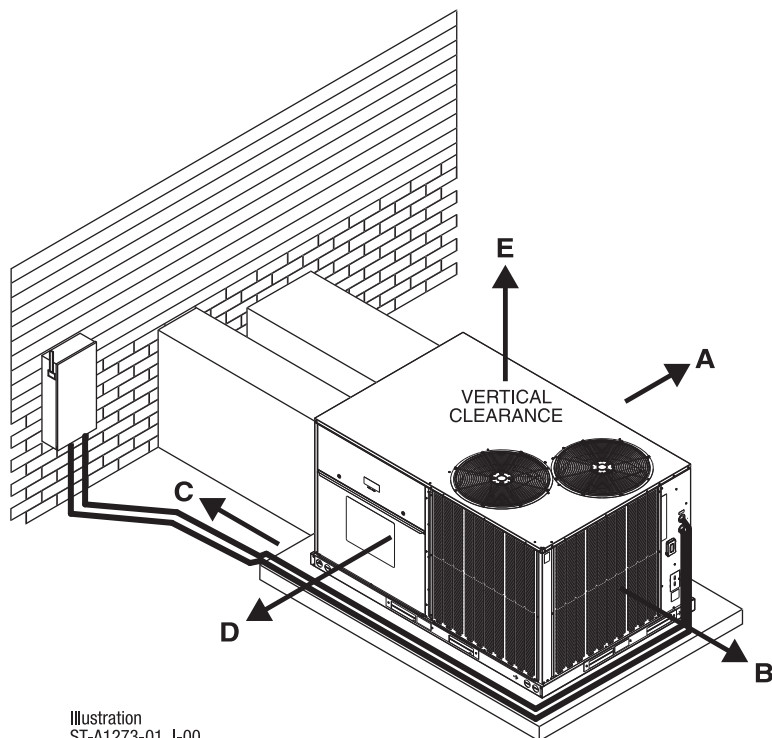


Illustration
ST-A1273-01_J-00

CLEARANCES

The following minimum clearances must be observed for proper unit performance and serviceability.

RECOMMENDED CLEARANCE In. [mm]	LOCATION
48 [1219]	A - FRONT
24 [609]	B - CONDENSER END
48 [1219] ①	C - DUCT END
24 [609] ②	D - FILTER SIDE
60 [1524]	E - ABOVE

① 18" [457 mm] MINIMUM IF DRAINPAN WILL NOT BE REMOVED.

② 48" [1219 mm] MINIMUM IF ECONOMIZER IS INSTALLED.

[] Designates Metric Conversions

FIELD-INSTALLED ACCESSORY EQUIPMENT

Accessory Description	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Economizer w/Single Enthalpy (Downflow)	RXRD-01MDDAM3	86 [39.0]	57 [25.9]	Yes
Economizer w/Single Enthalpy (Horizontal)	RXRD-01MDHAM3	84 [38.1]	55 [24.9]	No
Economizer-w/Single Enthalpy (Downflow) DDC	RXRD-01MDDBM3	86 [39.0]	57 [25.9]	Yes
Economizer w/Single Enthalpy (Horizontal) DDC	RXRD-01MDHBM3	84 [38.1]	55 [24.9]	No
Dual Enthalpy Kit	RXRX-BV01	1 [.5]	1 [.5]	No
Dual Enthalpy Kit DDC	RXRX-BV02	1 [.5]	1 [.5]	No
Carbon Dioxide Sensor (Wall Mount)	RXRX-AR02	3 [1.4]	2 [1.0]	No
Power Exhaust	RXRX-CDF01C	58 [26.3]	48 [21.8]	No
Power Exhaust	RXRX-CDF01D	50 [22.7]	44 [20.0]	No
Manual Fresh Air Damper	RXRF-ADA1	15 [6.8]	12 [5.4]	No
Motorized Fresh Air Damper	RXRF-ADB1	38 [17.2]	31 [14.06]	No
Motorized Fresh Air Damper (DDC)	RXRF-ADC1	38 [17.2]	31 [14.06]	No
Roofcurb, 14"	RXKG-DDD14	109 [49.4]	104 [47.2]	No
Roofcurb, 24"	RXKG-DDD24	145 [65.8]	140 [63.5]	No
Roofcurb Adapter*	RXRX-DDCAE	235 [106.6]	215 [97.5]	No
Concentric Diffuser 7.5/8.5 Ton Flush	RXRN-AEF2000	30 [13.6]	25 [11.3]	No
Concentric Diffuser 10.0 Ton Flush	RXRN-AEF3415	250 [113.4]	130 [59]	No
Concentric Diffuser 12.5 Ton Flush	RXRN-AEF3618	275 [124.7]	170 [77.1]	No
Concentric Diffuser 7.5/8.5 Ton Drop	RXRN-AED2000	35 [15.9]	30 [13.6]	No
Concentric Diffuser 10.0 Ton Drop	RXRN-AED3415	270 [122.5]	160 [72.6]	No
Concentric Diffuser 12.5 Ton Drop	RXRN-AED3618	300 [136.1]	180 [81.6]	No
Concentric Adapter 7.5/8.5 Ton Drop	RXMC-DD01	25 [11.3]	20 [9.1]	No
Concentric Adapter 10 Ton Drop	RXMC-DD02	75 [34]	65 [29.5]	No
Concentric Adapter 12.5 Ton Drop	RXMC-DD03	75 [34]	65 [29.5]	No
Outdoor Coil Louver Kit - GED-090/102/120	RXRX-ADD04A	52 [23.6]	47 [21.3]	Yes
Outdoor Coil Louver Kit - GED-150	RXRX-ADD04B	43 [19.5]	39 [17.7]	Yes
Unwired Convenience Outlet	RXRX-BN01	2 [1.0]	1.5 [.7]	Yes
Unfused Service Disconnect	RXRX-BP01	10 [4.5]	9 [4.1]	Yes
Comfort Alert (1 Per Compressor)	RXRX-AZ02	3 [1.5]	2 [0.9]	Yes
BACnet Communication Card	RXRX-AY01	1 [0.5]	1 [0.5]	No
LonWorks Communication Card	RXRX-AY02	1 [0.5]	1 [0.5]	No
Room Humidity Sensor	RHC-ZNS4	1 [0.5]	1 [0.5]	No
Room Temperature and Relative Humidity Sensor	RHC-ZNS5	1 [0.5]	1 [0.5]	No
Low-Ambient Control Kit	RXRZ-A04	4 [1.8]	3 [1.4]	Yes
Freeze Stat Kit	RXRX-AM01	2 [1.0]	1.5 [.7]	Yes
LP Kit	RXGJ-FP39	2 [1.0]	0 [.0]	No
Flue Diverter	RXRX-DFG04	5 [2.3]	4 [1.8]	No
Variable Frequency Drive Kit	RXRX-AC02	9.1 [4.1]	7.6 [3.4]	No
	RXRX-AC03	11.7 [5.3]	10.2 [4.6]	No
	RXRX-AC05	11.7 [5.3]	10.2 [4.6]	No
	RXRX-AD02	9.4 [4.3]	7.9 [3.6]	No
	RXRX-AD03	12.3 [5.6]	10.8 [4.9]	No
	RXRX-AD05	12.3 [5.6]	10.8 [4.9]	No
	RXRX-CC02	9.1 [4.1]	7.6 [3.4]	No
	RXRX-CC03	11.7 [5.3]	10.2 [4.6]	No
	RXRX-CC05	11.7 [5.3]	10.2 [4.6]	No
	RXRX-CD02	9.4 [4.3]	7.9 [3.6]	No
	RXRX-CD03	12.3 [5.6]	10.8 [4.9]	No
RXRX-CD05	12.3 [5.6]	10.8 [4.9]	No	
MERV 8 Filter 7.5 - 10 Ton	RXMF-M08A22020	2.0 [0.9]	1 [0.45]	No
MERV 8 Filter 12.5 Ton	RXMF-M08A22520	2.0 [0.9]	1 [0.45]	No
MERV 13 Filter 7.5 - 10 Ton	RXMF-M13A22020	2.0 [0.9]	1 [0.45]	No
MERV 13 Filter 12.5 Ton	RXMF-M13A22520	2.0 [0.9]	1 [0.45]	No

NOTICE: Please refer to conversion kit index provided with the unit for LP conversion kit.
 *This adapter converts to "B" series units 1st generation.

[] Designates Metric Conversions

FLUSH MOUNT ROOM TEMPERATURE SENSORS FOR NETWORKED DDC APPLICATIONS



**ROOM TEMPERATURE SENSOR
with TIMED OVERRIDE BUTTON**

RHC-ZNS1

10k Ω room temperature sensor transmits room temperature to DDC system. Timed override button allows tenant to change from unoccupied temperature setpoint to occupied temperature setpoint for a preset time.



**ROOM TEMPERATURE SENSOR
with TIMED OVERRIDE BUTTON and STATUS INDICATOR**

RHC-ZNS2

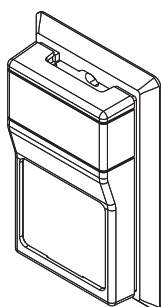
10k Ω room temperature sensor transmits room temperature to DDC system. Timed override button allows tenant to change from unoccupied temperature setpoint to occupied temperature setpoint for a preset time. Status Indicator Light transmits ALARM flash code to occupied space.



**ROOM TEMPERATURE SENSOR
with SETPOINT ADJUSTMENT and TIMED OVERRIDE BUTTON**

RHC-ZNS3

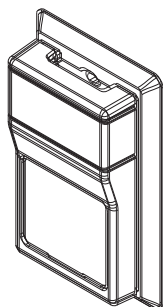
10k Ω room temperature sensor with setpoint adjustment transmits room temperature to DDC system along with desired occupied room temperature setpoint. Timed override button allows tenant to change from unoccupied temperature setpoint to occupied temperature setpoint for a preset time.



ROOM HUMIDITY SENSOR

RHC-ZNS4

Transmits room relative humidity to DDC System.



ROOM TEMPERATURE AND RELATIVE HUMIDITY SENSOR

RHC-ZNS5

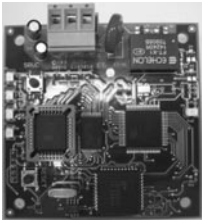
Transmits room temperature and relative humidity to DDC System.

COMMUNICATION CARDS



BACnet® COMMUNICATION CARD RXXR-AY01

The field installed BACnet® Communication Card allows the RTU-C unit controller to communicate with a third party building management system that supports the BACnet Application Specific Controller device profile. The BACnet® Communication Module plugs onto the unit RTU-C controller and allows communication between the RTU-C and the BACnet MSTP network.



LonWorks® COMMUNICATION CARD RXXR-AY02

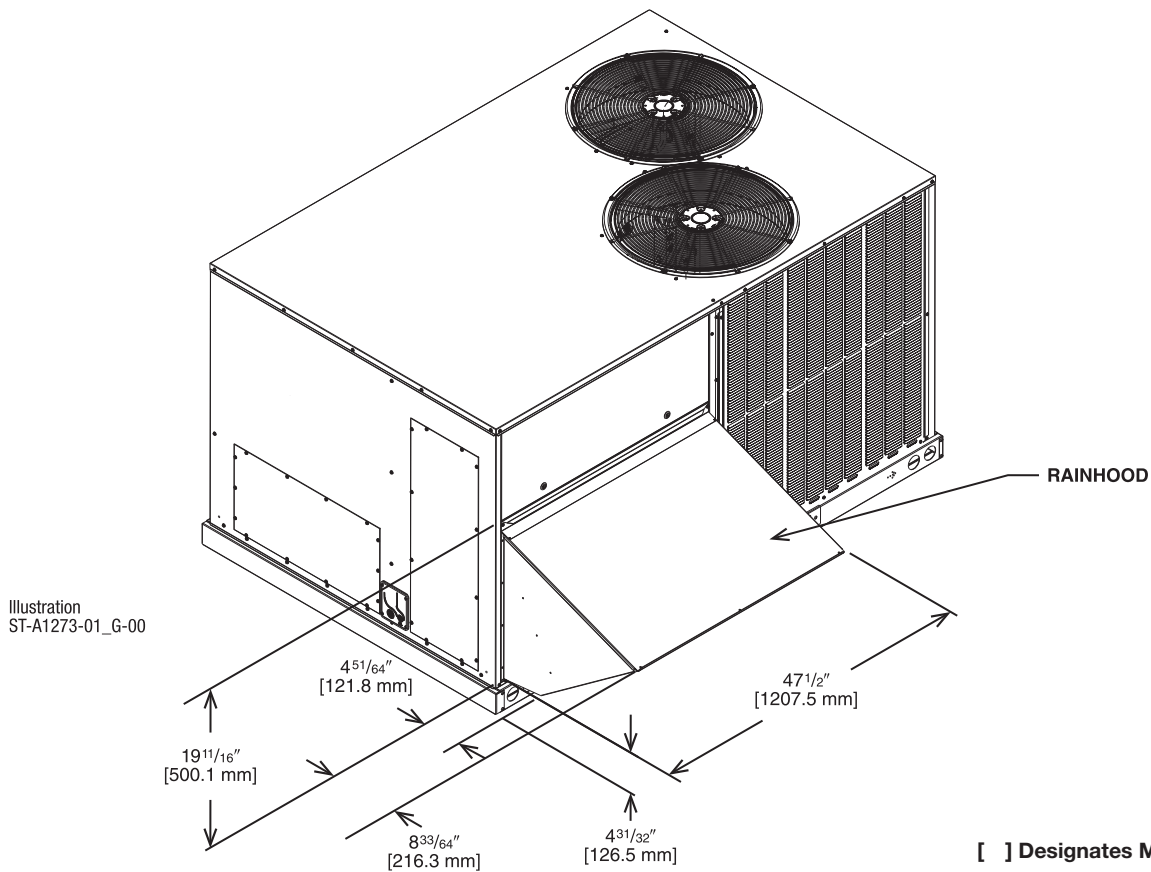
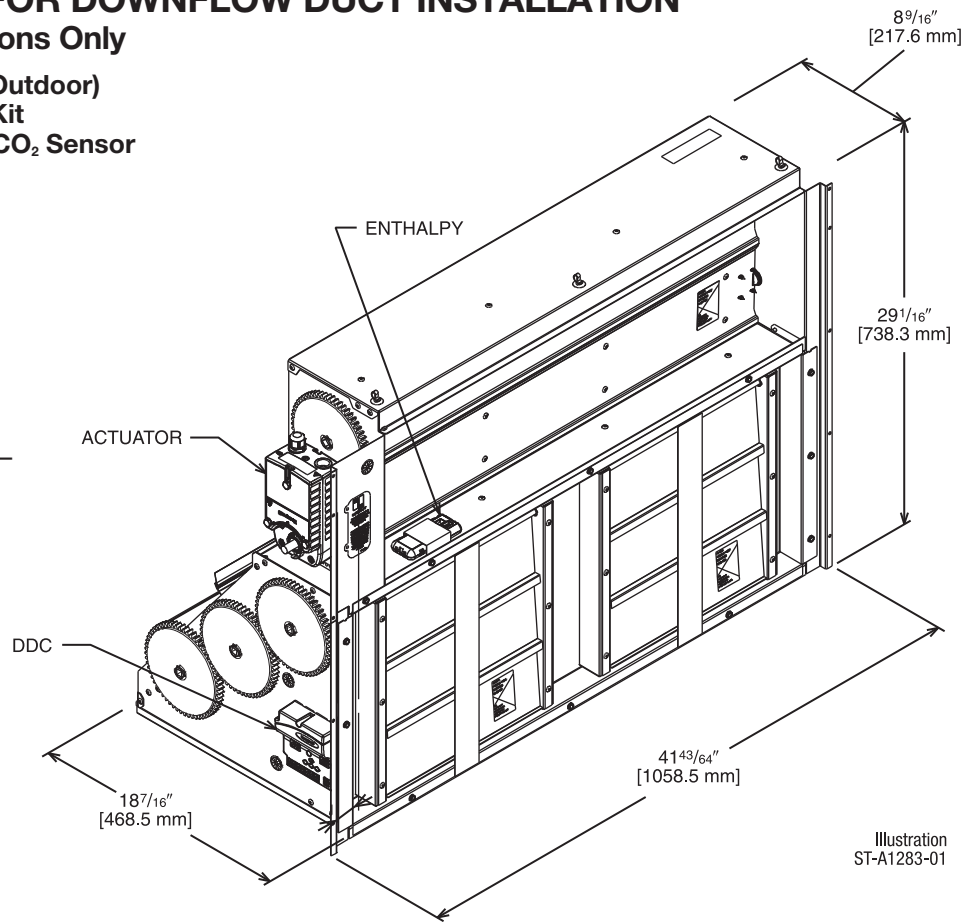
The field installed LonWorks® Communication Card allows the RTU-C unit controller to communicate with a third party building management system that supports the LonMark Space Comfort Controller (SCC) functional profile or LonMark Discharge Air Controller (DAC) functional profile. The LonMark Communication Module plugs onto the RTU-C controller and allows communication between the RTU-C and a LonWorks Network.

NON—DDC ECONOMIZER FOR DOWNFLOW DUCT INSTALLATION

Use to Select Field-Installed Options Only

- RXRD-01MDDAM3—Single Enthalpy (Outdoor)**
- RXRX-BV01—Dual Enthalpy Upgrade Kit**
- RXRX-AR02—Optional Wall-Mounted CO₂ Sensor**

- Features **Honeywell JADE™** Digital Controls
- Available Factory Installed or Field Accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements and ASHRAE 90.1 2013
- AMCA 511 Certified Class 1A Leakage—1" WG of differential pressure tested to AMCA Standard 500-D
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin Electrical Connections
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO₂ Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Down-flow Duct Application
- Field Installed Power Exhaust Available
- Fault detections and diagnostics



[] Designates Metric Conversions

NON—DDC ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION

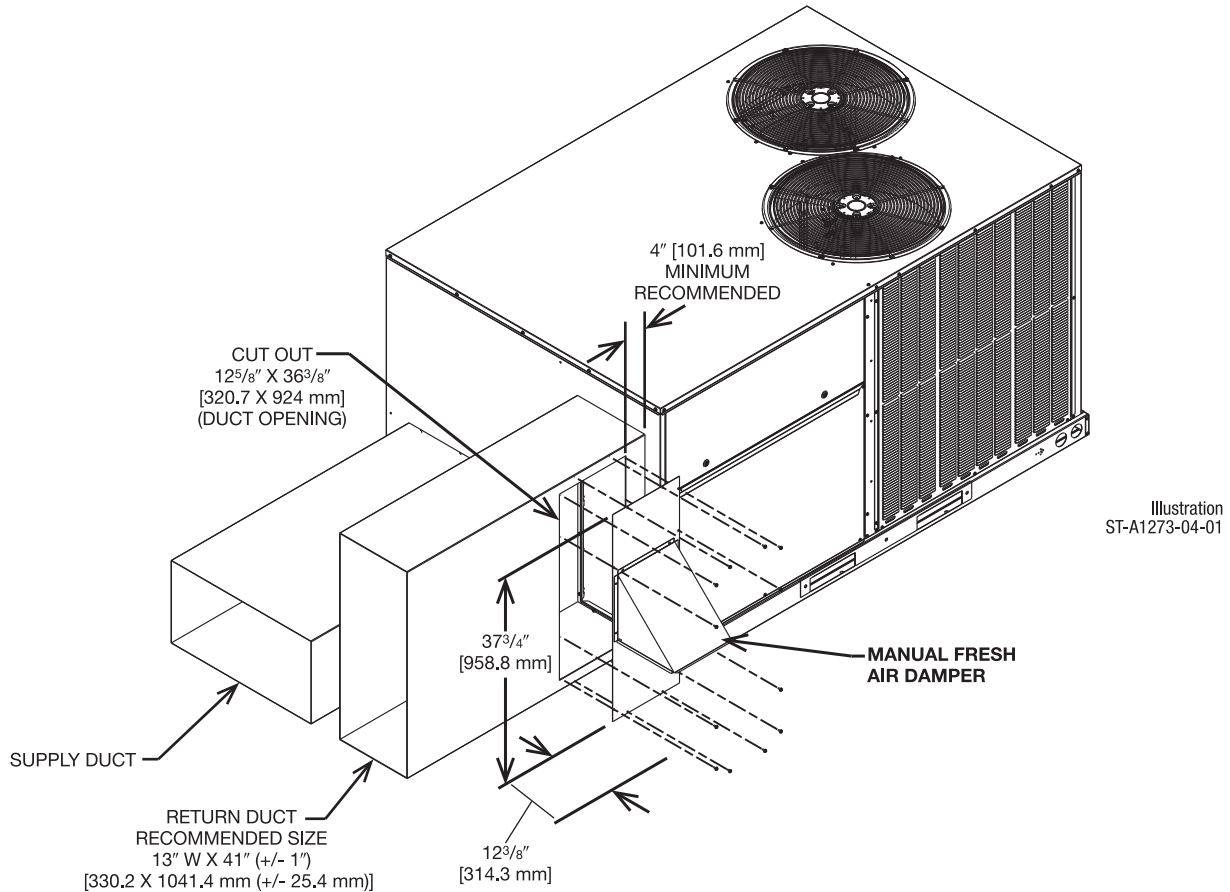
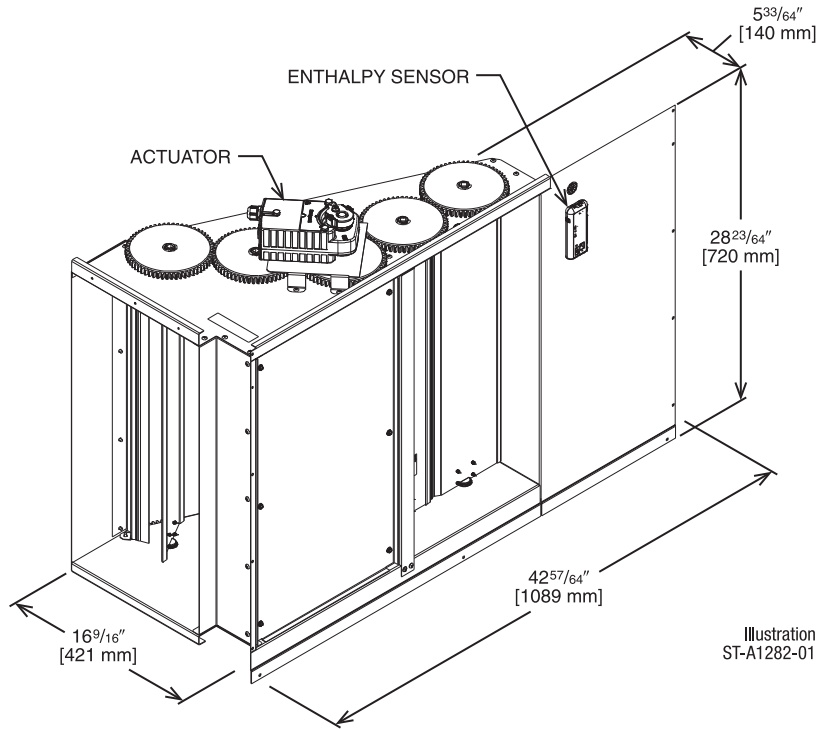
Field Installed Only

RXRD-01MDHAM3—Single Enthalpy (Outdoor)

RXXR-BV01—Dual Enthalpy Upgrade Kit

RXXR-AR02—Wall-mounted CO₂ Sensor

- Features **Honeywell JADE™** Digital Controls
- Available as a Field Installed Accessory Only
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements and ASHRAE 90.1 2013
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO₂ Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Horizontal Duct Application
- Field Installed Power Exhaust Available



[] Designates Metric Conversions

DDC—ECONOMIZER FOR DOWNFLOW DUCT INSTALLATION

Use to Select Field Installed Options Only

- RXRD-01MDDBM3—Single Enthalpy (Outdoor)**
- RXXR-BV02—Dual Enthalpy Upgrade Kit**
- RXXR-AR02—Optional Wall-Mounted CO₂ Sensor**

- Features **Honeywell** Controls
- Available Factory Installed or Field Accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements and ASHRAE 90.1 2013
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO₂ Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application
- Optional Remote Minimum Position Potentiometer (270 ohm) (Honeywell #S963B1136) is Available from Prostock
- Field Installed Power Exhaust Available
- Prewired for Smoke Detector
- If connected to a Building Automation System (BAS), all economizer functions can be viewed on the (BAS), or 16 x 2 LCD screen
- If connected to thermostat, all economizer functions can be viewed on 16 x 2 LCD screen

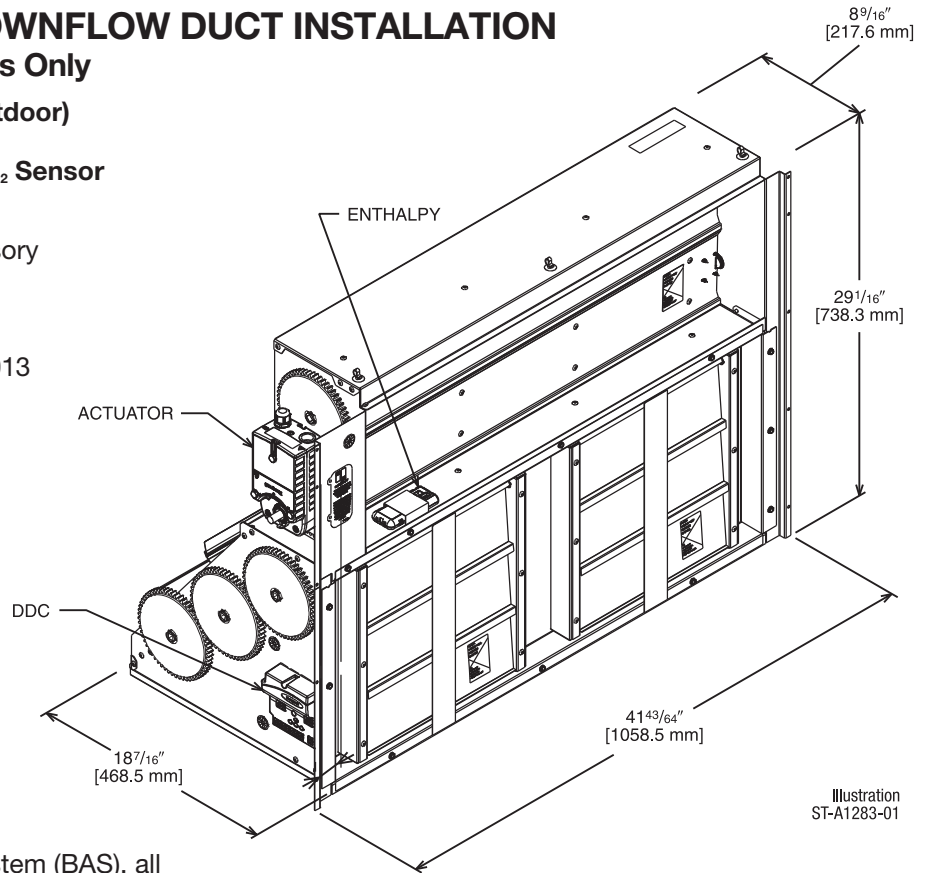


Illustration
 ST-A1283-01

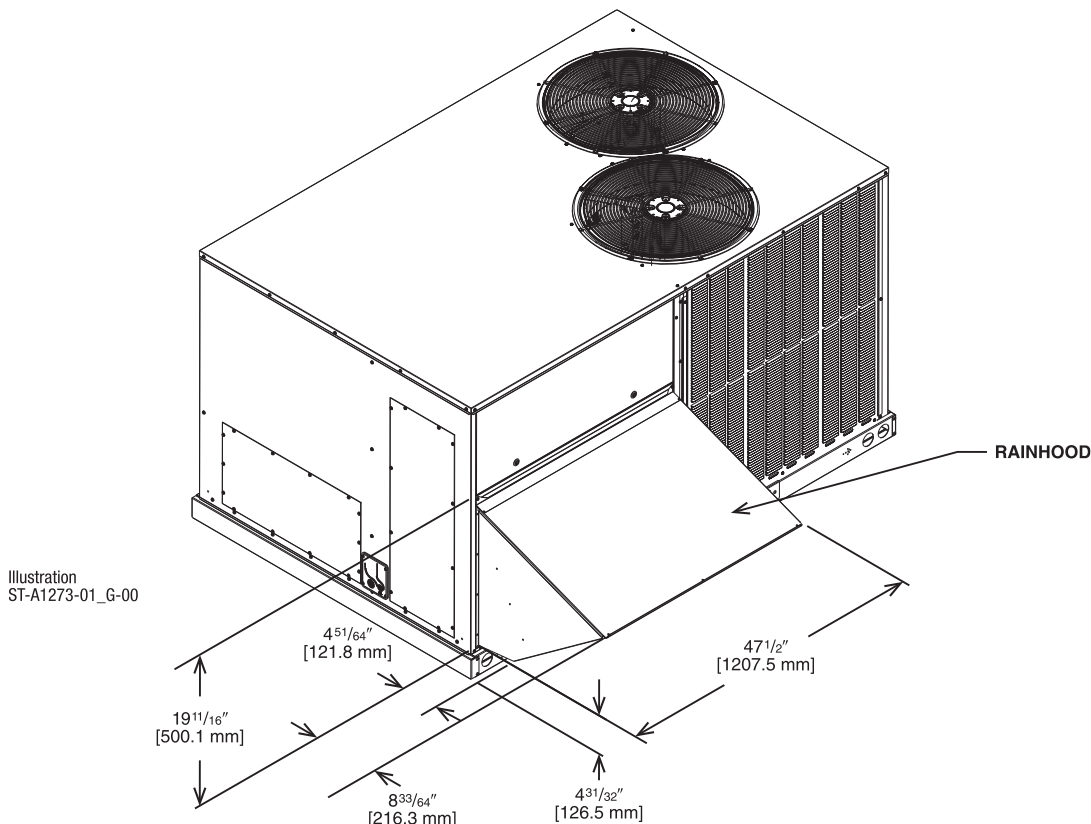


Illustration
 ST-A1273-01_G-00

[] Designates Metric Conversions

DDC—ECONOMIZER FOR HORIZONTAL DUCT INSTALLATION

Field Installed Only

RXRD-01MDHBM3—Single Enthalpy (Outdoor)
RRRX-BV02—Dual Enthalpy Upgrade Kit
RRRX-AR02—Wall-mounted CO₂ Sensor

- Features **Honeywell Controls**
- Available as a Field Installed Accessory Only
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements and ASHRAE 90.1 2013
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO₂ Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Horizontal Duct Application
- Optional Remote Minimum Position Potentiometer (270 ohm) (Honeywell #S963B1136) is Available from Prostock
- Field Installed Power Exhaust Available
- If connected to a Building Automation System (BAS), all economizer functions can be viewed on the (BAS), or 16 x 2 LCD screen
- If connected to thermostat, all economizer functions can be viewed on 16 x 2 LCD screen

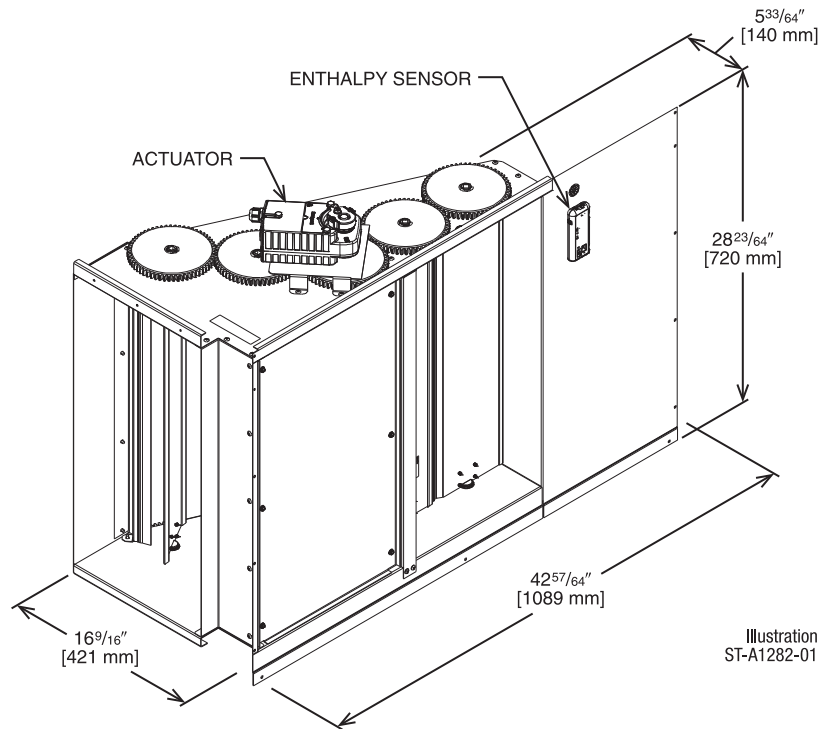


Illustration
ST-A1282-01

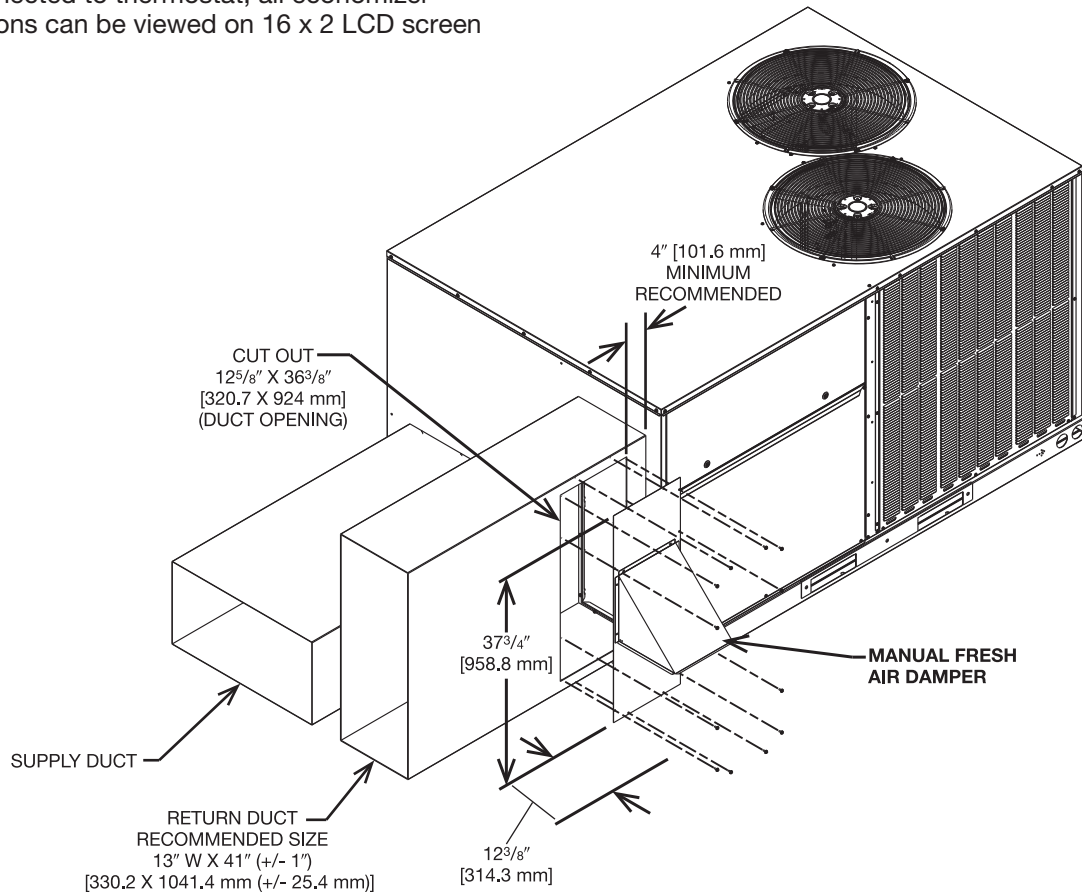


Illustration
ST-A1273-04-01

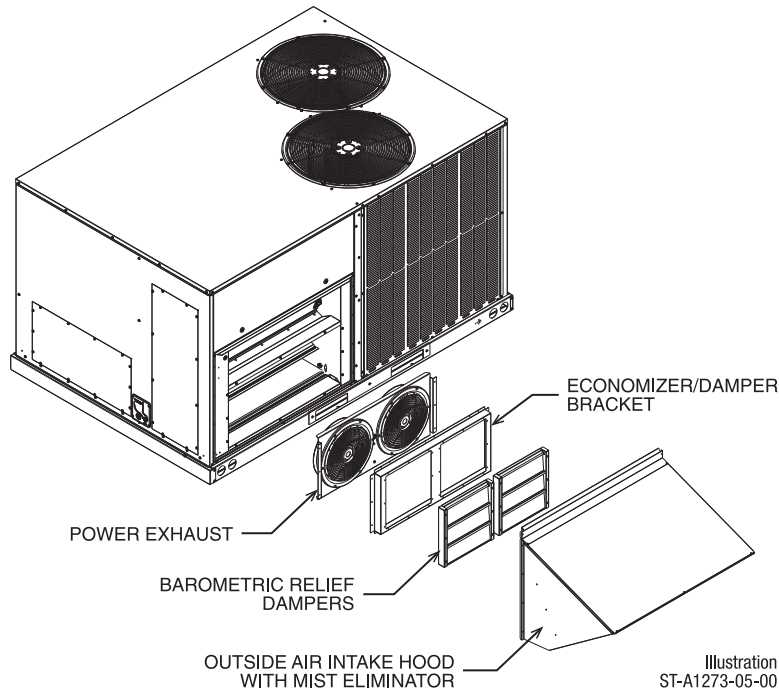
[] Designates Metric Conversions

POWER EXHAUST KIT FOR RXRD-01MDDAM3, RXRD-01MDDDBM3, RXRD-01MDHAM3, RXRD-01MDHBM3 ECONOMIZERS

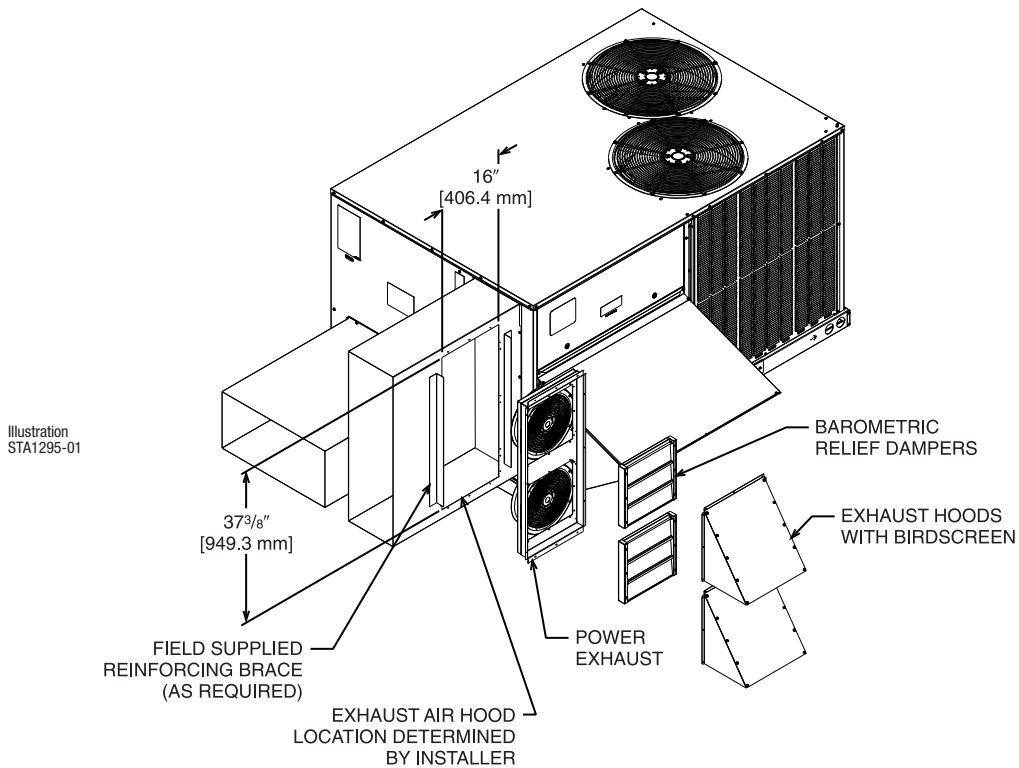
RXXR-CDF01 (C, D, or Y*)

*Voltage Code

VERTICAL AIRFLOW



HORIZONTAL AIRFLOW



Model No.	No. of Fans	Volts	Phase	HP (ea.)	CFM [L/s]*	RPM	FLA (ea.)	LRA (ea.)
RXXR-CDF01C	2	208-230	1	0.47	2200	3000	1.55	1.1
RXXR-CDF01D	2	460	3	0.40	1970	2750	0.51	1.9

*CFM is per fan at 0" w.c. external static pressure.

[] Designates Metric Conversions

FRESH AIR DAMPER

MOTORIZED DAMPER KIT RXRF-ADB1

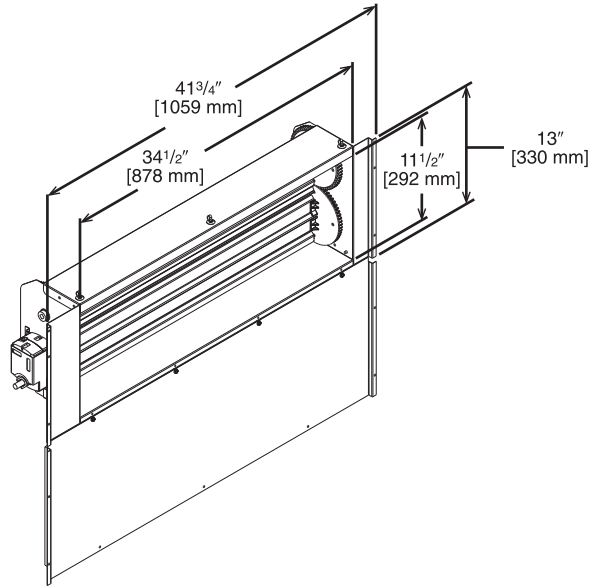


Illustration
 ST-A1273-10-00

MOTORIZED DAMPER KIT RXRX-ADC1 (Modulating Motor Kit with position feedback for DDC Models)

- Features **Honeywell** Controls
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin and 4-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary
- Addition of Dual Enthalpy Upgrade Kit allows limited economizer function
- CO₂ Sensor Input Available for Demand Control Ventilation (DCV)
- All fresh air damper functions can be viewed at the RTU-C unit controller display
- If connected to a Building Automation System (BAS), all fresh air damper functions can be viewed on the (BAS), or 16 x 2 LCD screen
- If connected to thermostat, all fresh air damper functions can be viewed on 16 x 2 LCD screen

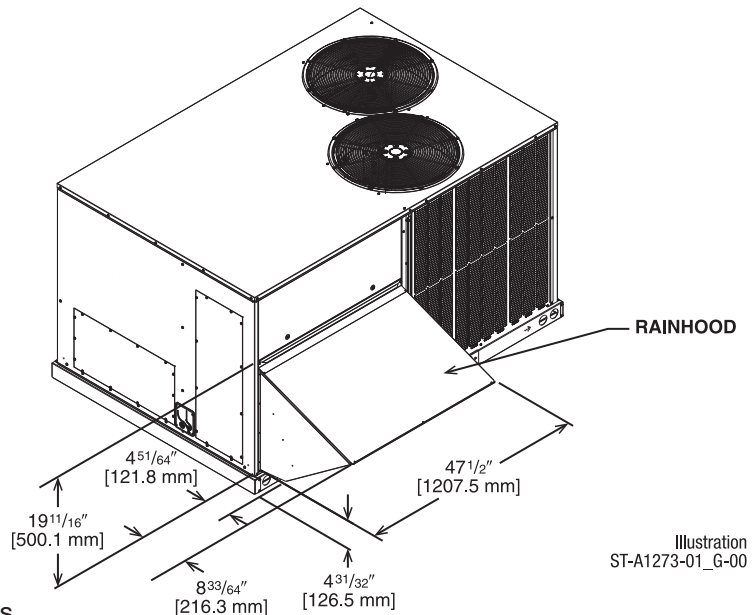


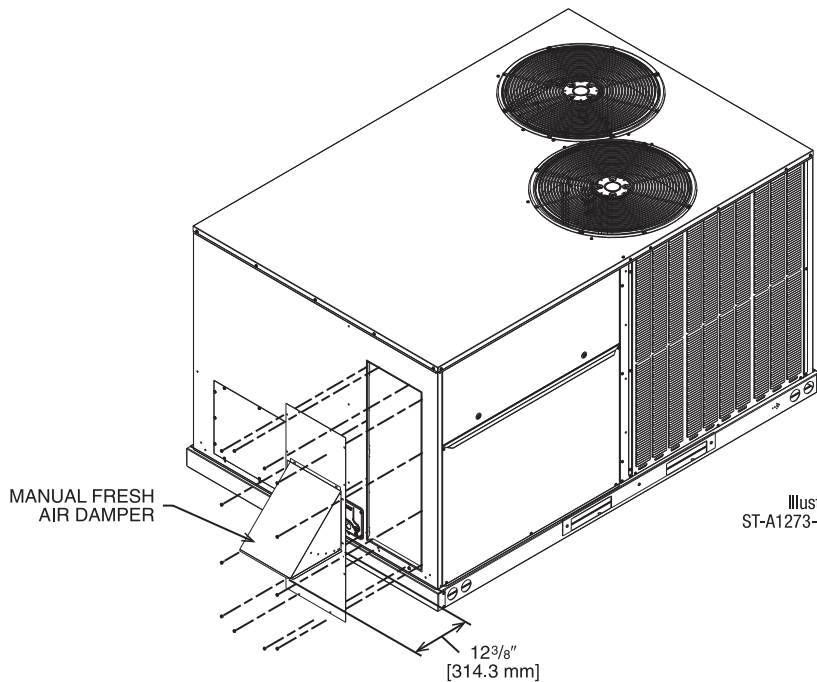
Illustration
 ST-A1273-01_G-00

[] Designates Metric Conversions

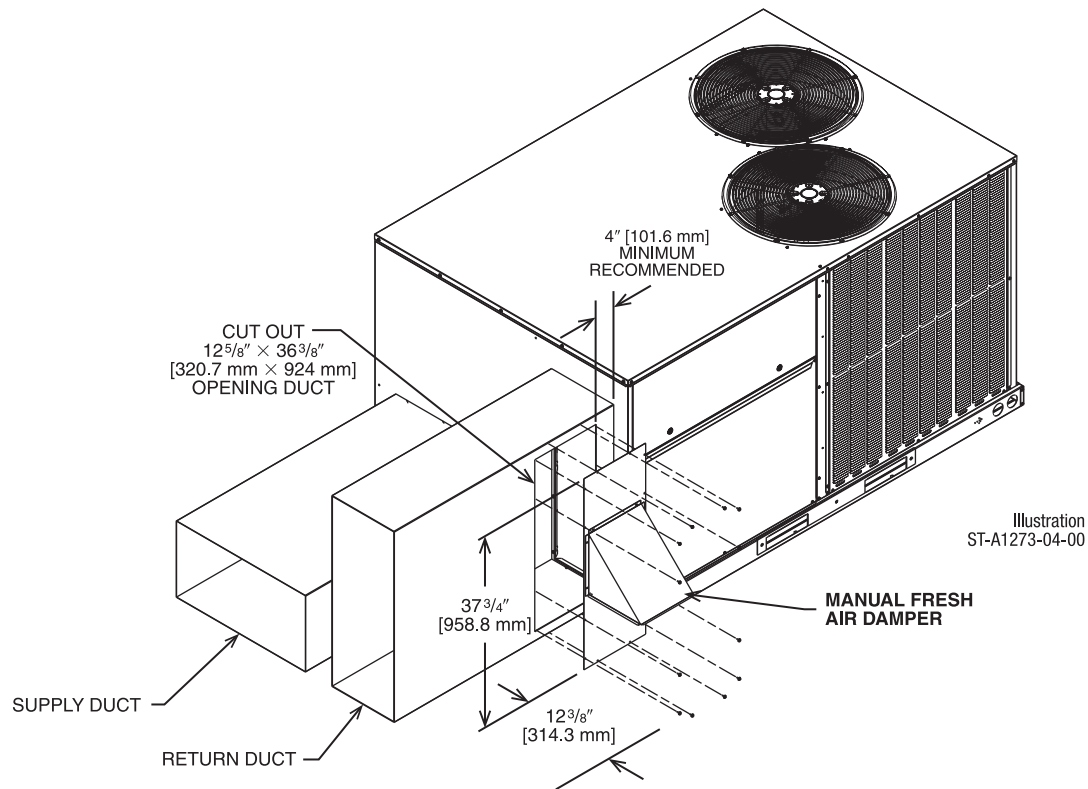
FRESH AIR DAMPER (Con't.)

AXRF-ADA1

DOWNFLOW APPLICATION



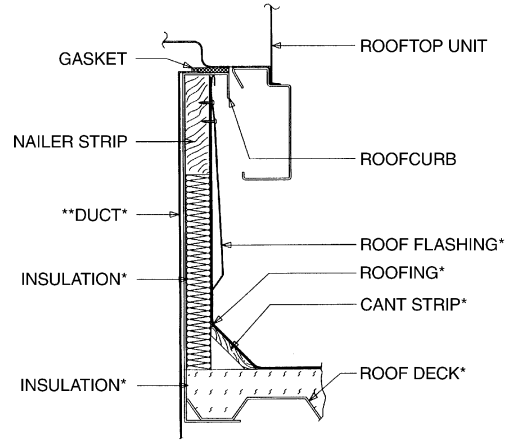
HORIZONTAL APPLICATION



[] Designates Metric Conversions

ROOFCURBS (Full Perimeter)

- Mainline’s roofcurb design can be utilized on all 7.5-12.5 ton [26.4-44.0 kW] RGEDZT- models.
- Two available heights (14" [356 mm] and 24" [610 mm]) for ALL models.
- Quick assembly corners for simple and fast assembly.
- Opening provided in bottom pan to match the “Thru the Curb” electrical, gas piping, condensate, connection opening provided on the unit base pan.
- 1" [25 mm] x 4" [102 mm] Nailers provided.
- Sealing gasket (40' [12.2 m]) provided with Roofcurb.
- Packaged for easy field assembly.



*BY CONTRACTOR
 **FOR INSTALLATION OF DUCT AS SHOWN, USE RECOMMENDED DUCT SIZES FROM ROOFCURB INSTALLATION INSTRUCTIONS. FOR DUCT FLANGE ATTACHMENT TO UNIT, SEE UNIT INSTALLATION INSTRUCTIONS FOR RECOMMENDED DUCT SIZES.

Illustration
 ST-A0743-02

View	Roofcurb Model	Height of Curb
A	RXKG-DDD14	14" [356 mm]
A	RXKG-DDD24	24" [610 mm]

ROOFCURB INSTALLATION

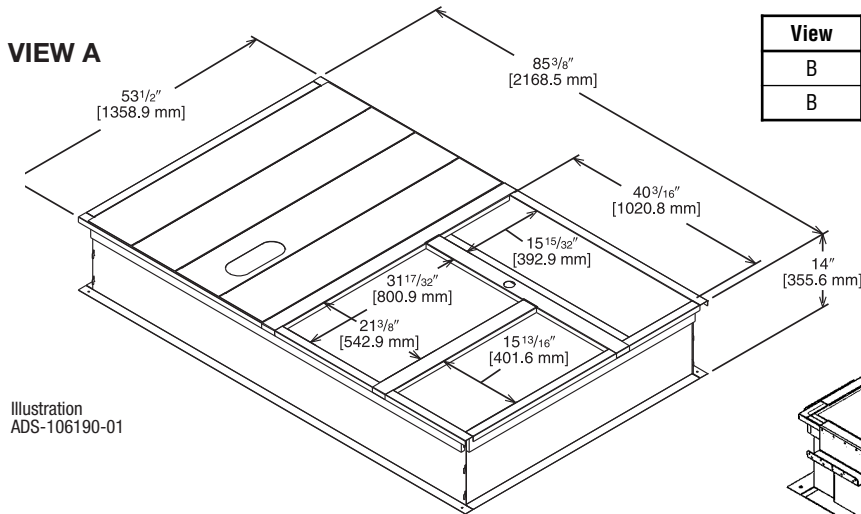
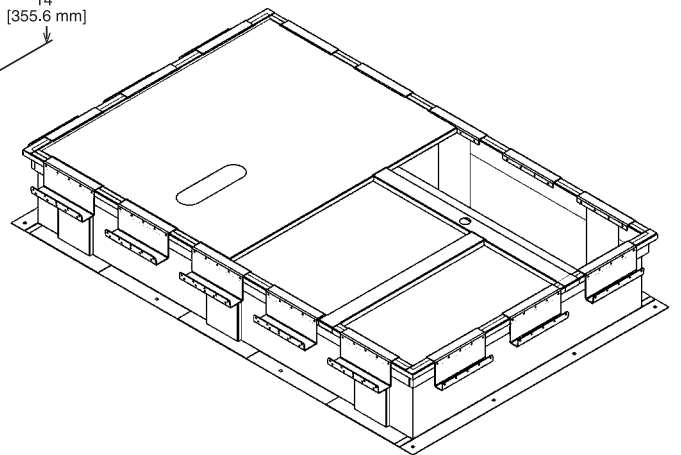


Illustration
 ADS-106190-01

View	Roofcurb Model	Dimensions
B	RKKG-SD14	85.375" x 53.5" x 14.0"
B	RKKG-SD24	85.375" x 53.5" x 24.0"

WELDED ROOFCURB VIEW B



- State of Florida Approved: Approval Number FL 26981.1 for Technical Evaluation Report TER-20-28788 certifies the HVAC Unit and mounting methods for high wind resistance are compliant per Florida Building Code.
- OSHPD Approved: State of California Product Approval Number OSP-06660-TEMPO0 for Technical Evaluation Report 1700876-CR-001-RO certifies the HVAC Unit and Mircrometl Welded Roof Curb is earthquake resistance compliant and approved for use per International Code Council – Evaluation Service AC156, IBC, AND CBC building code standards.

[] Designates Metric Conversions

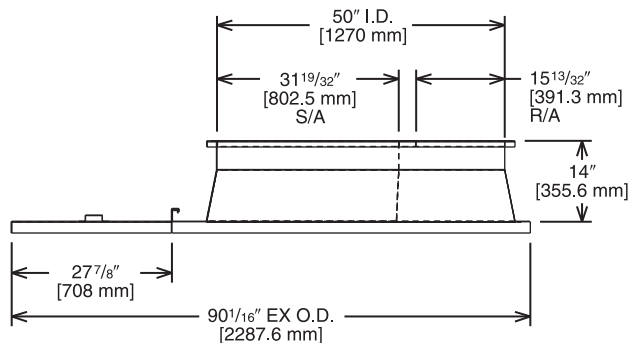
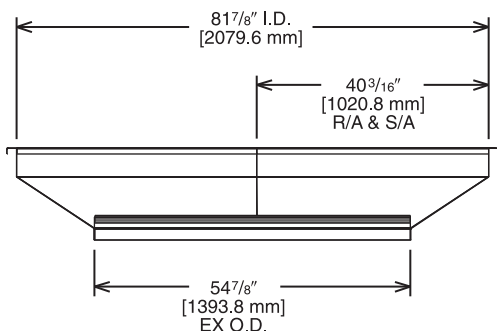
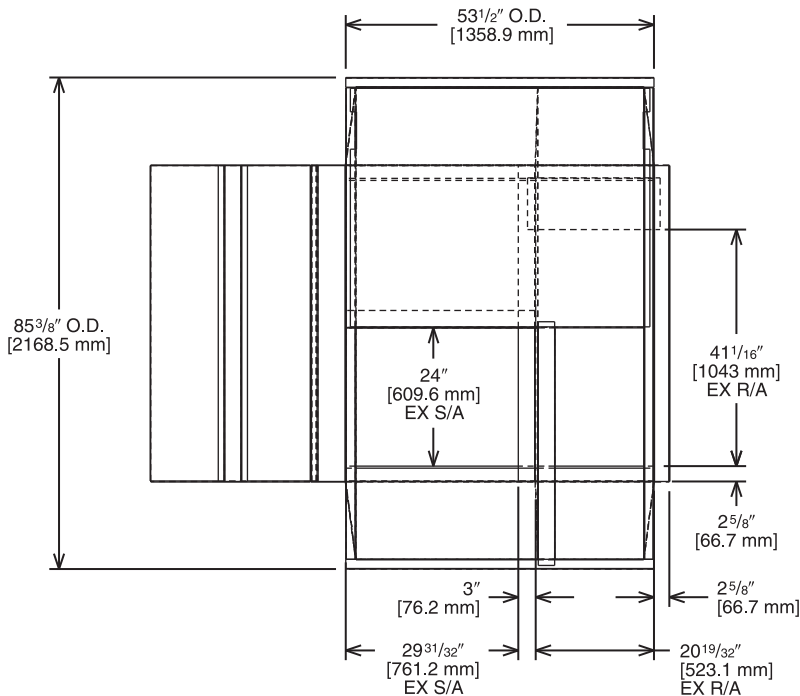
ROOFCURB ADAPTERS (Con't.)

RXRX-DDCAE

Illustration
ADS-106176-01
SHEET 2

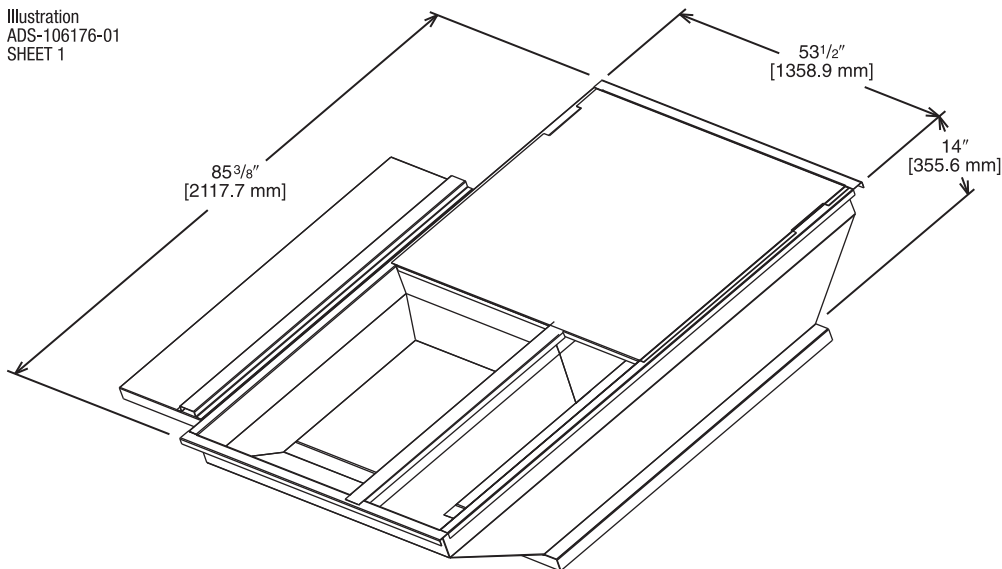
APPROXIMATE STATIC PRESSURE DROP

@2,000	= 0.06" w.g.
@3,000	= 0.12" w.g.
@4,000	= 0.22" w.g.
@5,000	= 0.36" w.g.



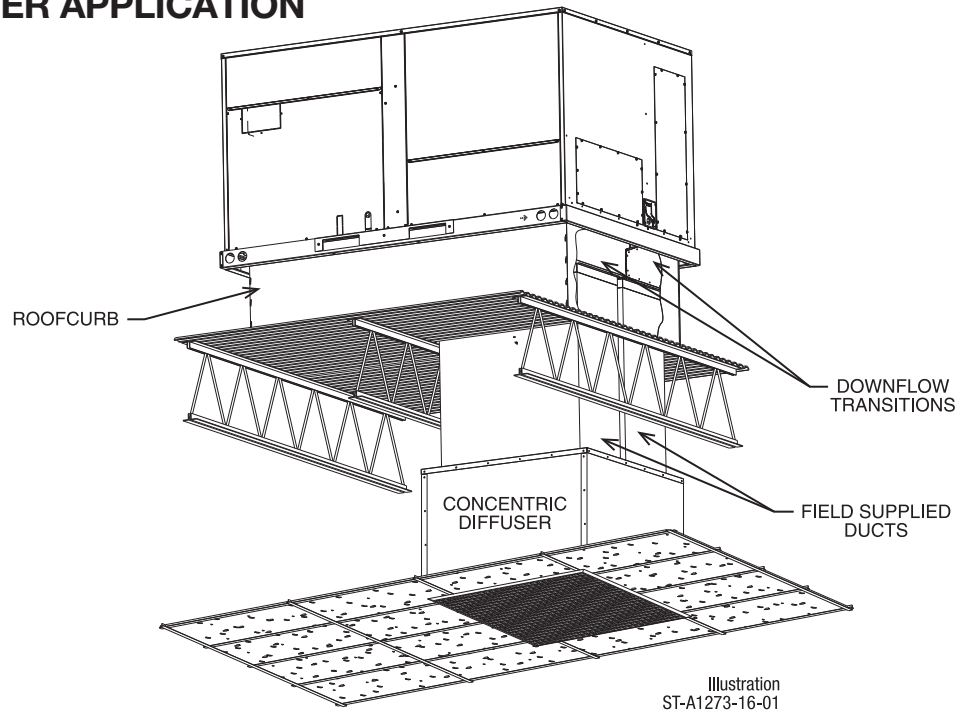
TOP VIEW

Illustration
ADS-106176-01
SHEET 1



[] Designates Metric Conversions

CONCENTRIC DIFFUSER APPLICATION



DOWNFLOW TRANSITION DRAWINGS

RXMC-DDO2

- Used with AEF3415 or AED3415 Concentric Diffusers.

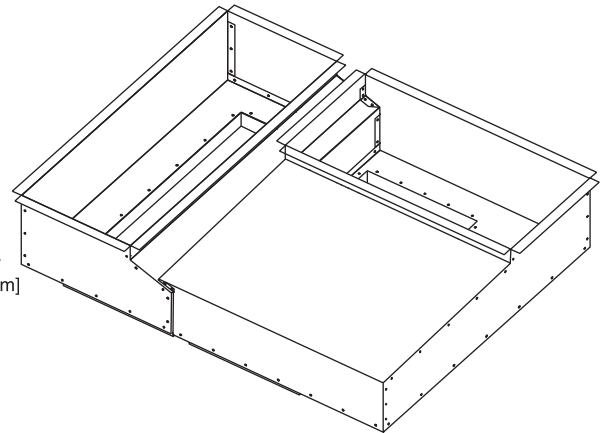
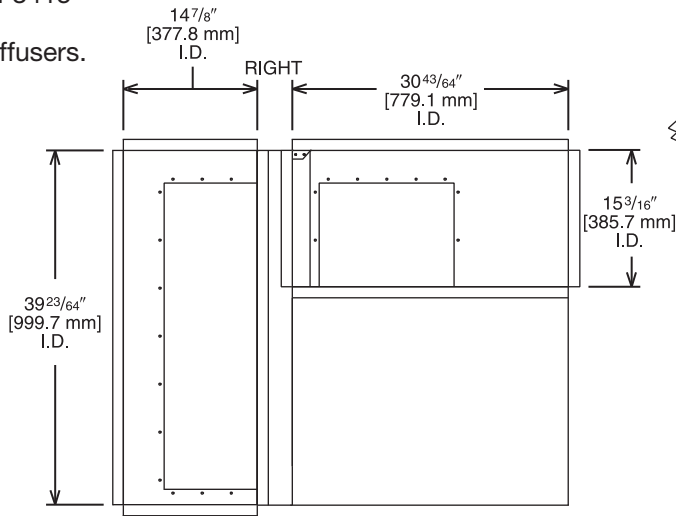
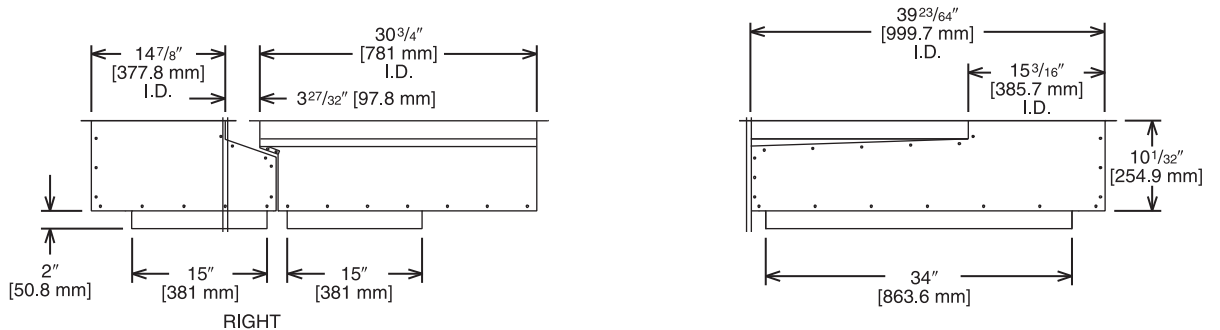


Illustration
 ADS-106193-02



[] Designates Metric Conversions

DOWNFLOW TRANSITION DRAWINGS

RXMC-DD03

- Used with AEF3618 or AED3618 Concentric Diffusers.

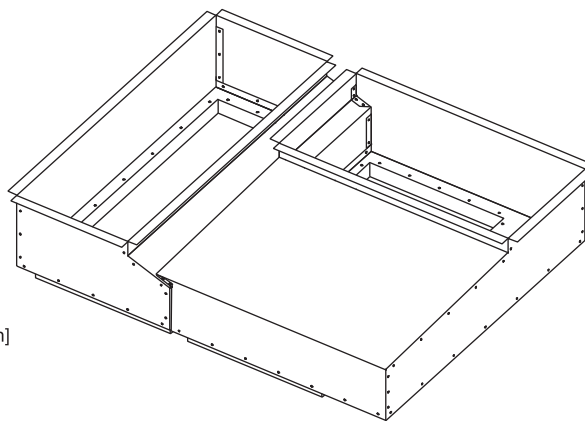
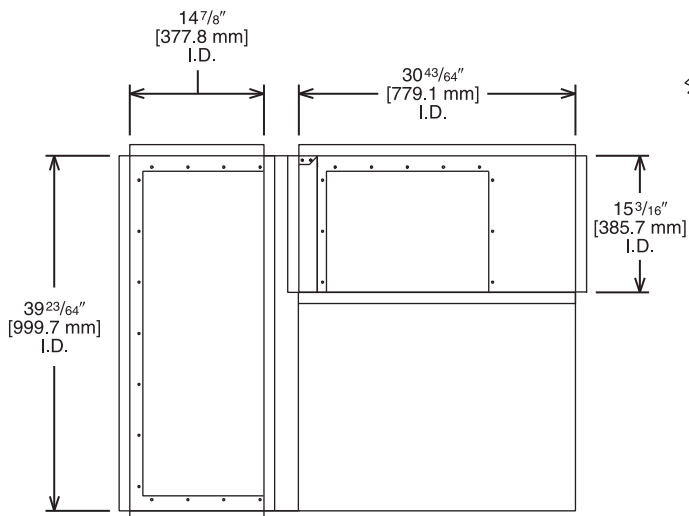
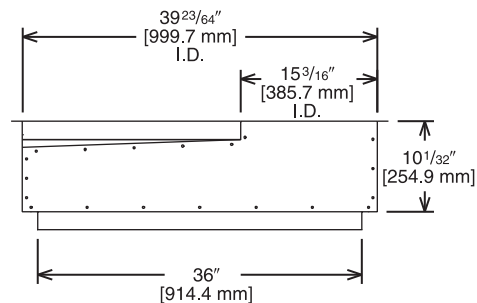
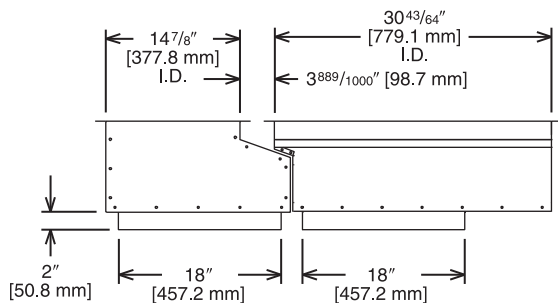


Illustration
 ADS-106193-03



[] Designates Metric Conversions

DOWNFLOW TRANSITION DRAWINGS

RXMC-DD01

- Used with AEF2000
or AED2000
Concentric Diffusers.

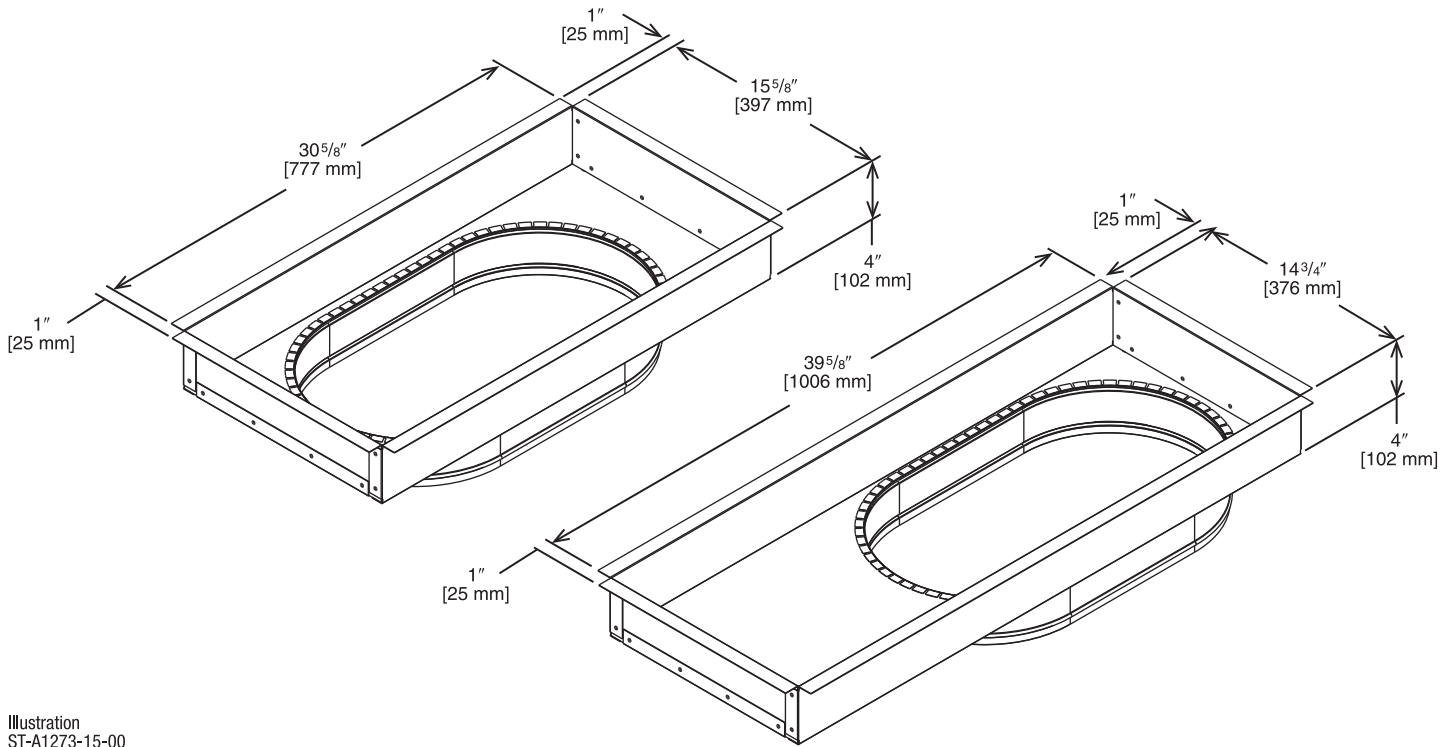


Illustration
ST-A1273-15-00

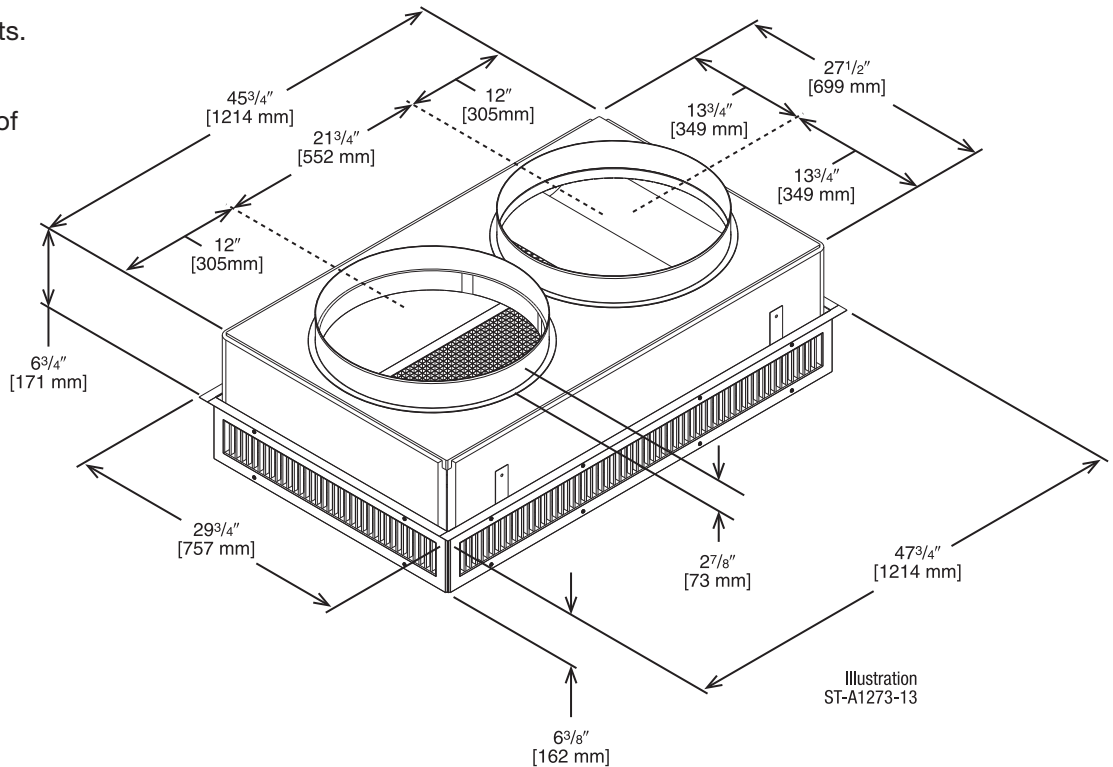
[] Designates Metric Conversions

CONCENTRIC DIFFUSER – STEP DOWN

RXRN-AED2000 (7.5 & 8.5 Ton [26.4 & 29.9 kW] Models)

For Use With Downflow Transition (RXMC-DD01)
 and 20" [508 mm] Round Supply and Return Ducts

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.



ENGINEERING DATA^①

Model No.	Flow Rate CFM [L/s]	Throw ^{② ③} Feet [m]	Neck Velocity fpm [m/s]	Noise Level ^④ (dbA)
RXRN-AED2000	2600 [1222]	22-39 [6.7-11.9]	669 [3.4]	32
	2800 [1316]	23-40 [7.1-12.2]	720 [3.7]	38
	3000 [1410]	25-42 [7.6-12.8]	772 [3.9]	40
	3200 [1504]	26-43 [7.9-13.1]	823 [4.2]	41
	3400 [1598]	27-45 [8.2-13.7]	874 [4.4]	42
	3600 [1692]	30-50 [9.1-15.2]	925.5 [4.7]	45
	3800 [1786]	32-53 [9.8-16.2]	976.8 [4.9]	48
	4000 [1880]	34-56 [10.4-17.1]	1028.1 [5.2]	50

- NOTES: ① All data is based on the air diffusion council guidelines.
 ② Throw data is based on 75 FPM Terminal Velocities using isothermal air.
 ③ Throw is based on diffuser blades being directed in a straight pattern.
 ④ Actual noise levels may vary due to duct design and do not include transmitted unit noise.
 Adequate duct attenuation must be provided to reduce sound output from the unit.

[] Designates Metric Conversions

CONCENTRIC DIFFUSER—STEP DOWN 15" x 34" [381 x 836 mm]

RXRN-AED3415 (8.5 & 10 Ton [29.9 kW & 35.2] Models)

**For Use With Downflow Transition (RXMC-DD02)
 and 15" x 34" [381 x 836 mm]
 Supply and Return Ducts**

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.
- Double deflection diffuser with the blades secured by spring steel.

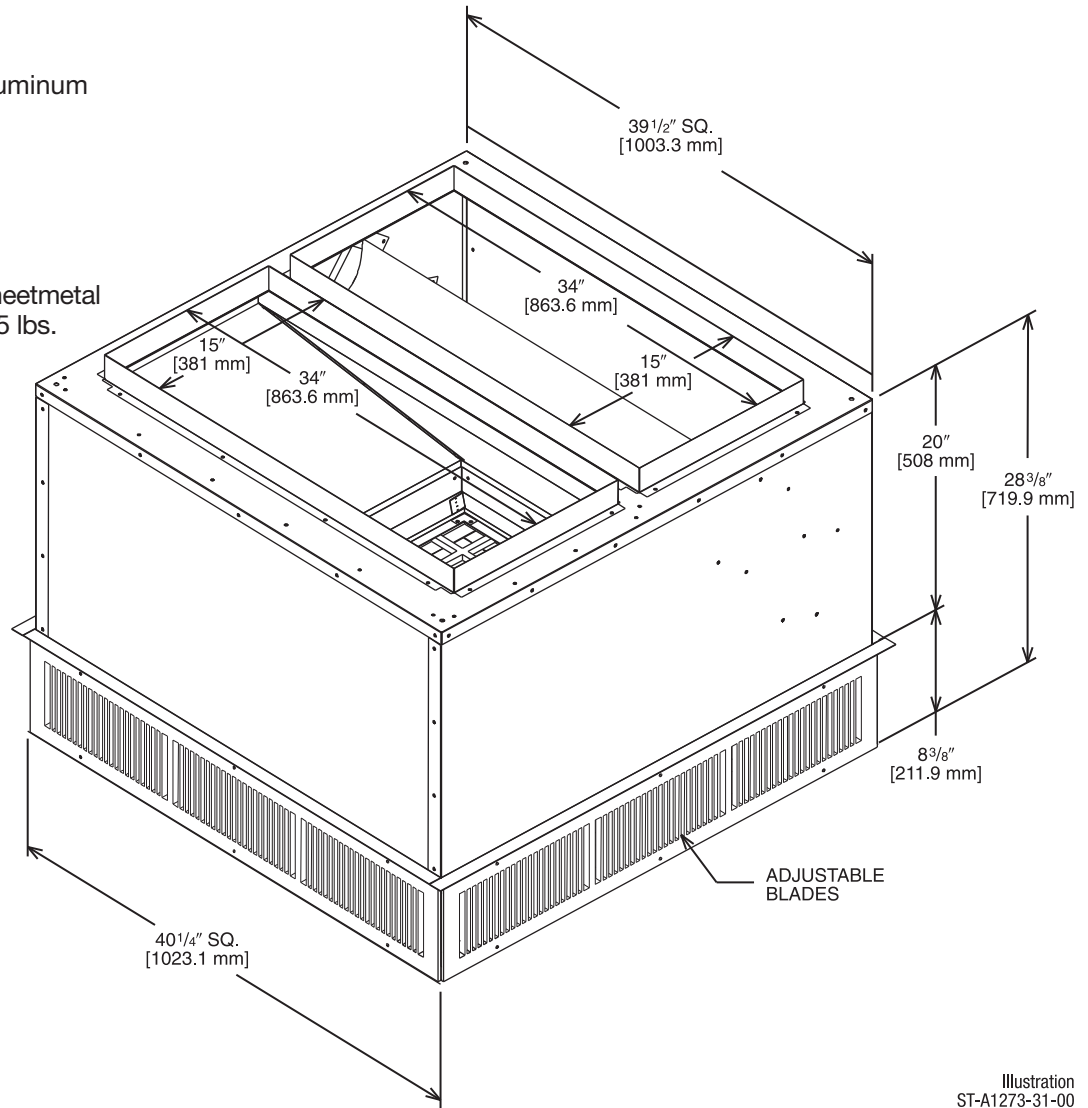


Illustration
 ST-A1273-31-00

ENGINEERING DATA^①

Model No.	Flow Rate CFM [L/s]	Throw ^{② ③} Feet [m]	Neck Velocity fpm [m/s]	Noise Level ^④ (dbA)
RXRN-AED3415	3600 [1692]	26-53 [7.9-16.2]	851 [4.3]	27
	3800 [1786]	27-55 [8.2-16.8]	898 [4.5]	29
	4000 [1880]	29-58 [8.8-17.7]	946 [4.8]	30
	4200 [1974]	31-61 [9.4-18.6]	993 [5.1]	32
	4400 [2068]	32-64 [9.8-19.5]	1040 [5.3]	33
	4600 [2162]	34-66 [10.4-20.1]	1087.5 [5.5]	35

- NOTES: ① All data is based on the air diffusion council guidelines.
 ② Throw data is based on 75 FPM Terminal Velocities using isothermal air.
 ③ Throw is based on diffuser blades being directed in a straight pattern.
 ④ Actual noise levels may vary due to duct design and do not include transmitted unit noise.
 Adequate duct attenuation must be provided to reduce sound output from the unit.

[] Designates Metric Conversions

CONCENTRIC DIFFUSER – STEP DOWN 18" x 36" [457 x 914 mm]

RXRN-AED3618 (12.5 & 15 Ton [44.0 & 52.8 kW] Models)

For Use With Downflow Transition (RXMC-DD03)
 and 18" x 36" [457 x 914 mm]
 Supply and Return Ducts

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.
- Double deflection diffuser with the blades secured by spring steel.

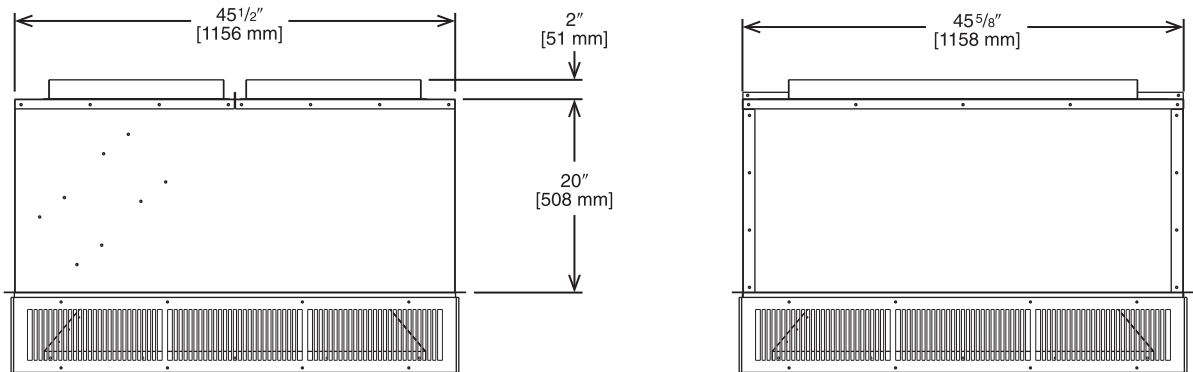
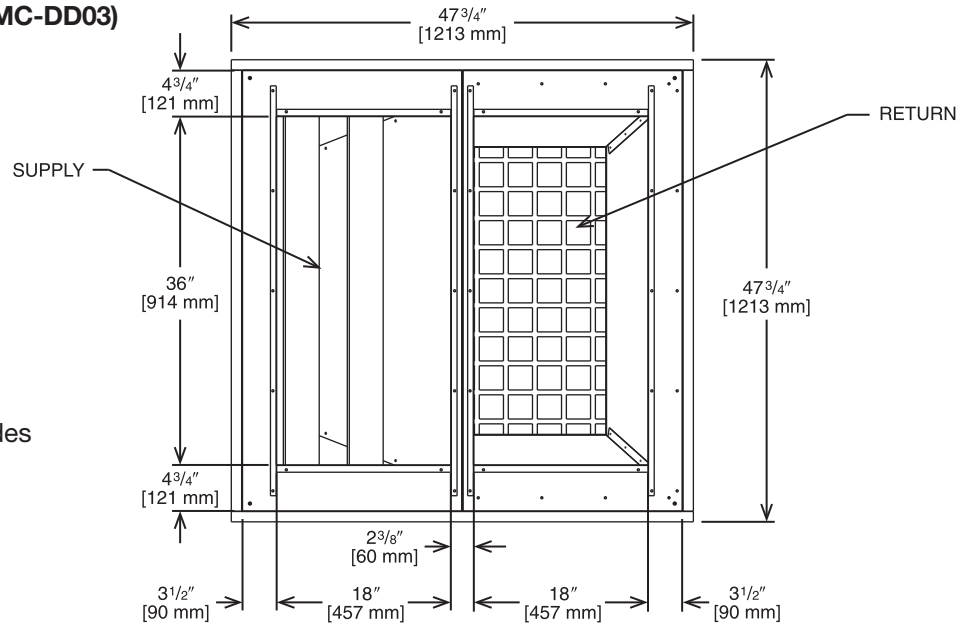


Illustration
 ST-A1273-11-00

ENGINEERING DATA^①

Model No.	Flow Rate CFM [L/s]	Throw ^{② ③} Feet [m]	Neck Velocity fpm [m/s]	Noise Level ^④ (dba)
RXRN-AED3618	4400 [2068]	29-55 [8.8-16.8]	841 [4.3]	26
	4600 [2162]	31-57 [9.4-17.4]	875 [4.4]	28
	4800 [2256]	32-60 [9.8-18.3]	915 [4.6]	29
	5000 [2350]	33-62 [10.1-18.9]	951 [4.8]	30
	5200 [2444]	34-65 [10.4-19.8]	988 [5.1]	31
	5400 [2538]	36-67 [10.9-20.4]	1025 [5.2]	32

- NOTES: ① All data is based on the air diffusion council guidelines.
 ② Throw data is based on 75 FPM Terminal Velocities using isothermal air.
 ③ Throw is based on diffuser blades being directed in a straight pattern.
 ④ Actual noise levels may vary due to duct design and do not include transmitted unit noise. Adequate duct attenuation must be provided to reduce sound output from the unit.

[] Designates Metric Conversions

FLUSH MOUNT CONCENTRIC DIFFUSER – FLUSH

RXR- AEF2000 (7.5 & 8.5 Ton [26.4 & 29.9 kW] Models)

For Use With Downflow Transition (RXMC-DD01)
 20" [508 mm] Round Supply and Return Ducts

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.

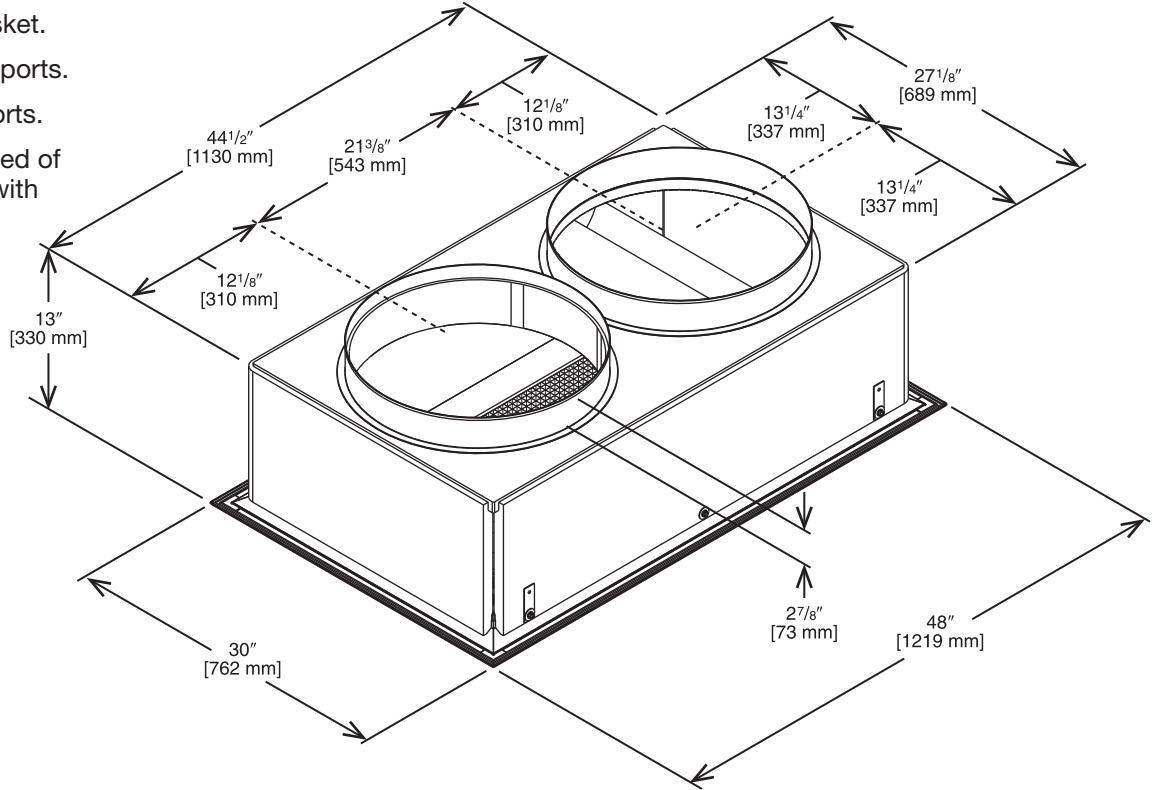


Illustration
 ST-A1273-14-00

ENGINEERING DATA^①

Model No.	Flow Rate CFM [L/s]	Throw ^{② ③} Feet [m]	Neck Velocity fpm [m/s]	Noise Level ^④ (dbA)
RXRN-AEF2000	2600 [1222]	17-24 [5.2-7.3]	663 [3.4]	30
	2800 [1316]	18-28 [5.5-8.5]	714 [3.6]	35
	3000 [1410]	20-30 [6.1-9.1]	765 [3.9]	35
	3200 [1504]	22-33 [6.7-10.1]	816 [4.1]	40
	3400 [1598]	23-37 [7-11.3]	867 [4.4]	40
	3600 [1692]	25-38 [7.6-11.6]	918 [4.7]	43
	3800 [1786]	26-39 [7.9-11.9]	969 [4.9]	45
	4000 [1880]	27-40 [8.2-12.2]	1020 [5.2]	48

- NOTES: ① All data is based on the air diffusion council guidelines.
 ② Throw data is based on 75 FPM Terminal Velocities using isothermal air.
 ③ Throw is based on diffuser blades being directed in a straight pattern.
 ④ Actual noise levels may vary due to duct design and do not include transmitted unit noise.
 Adequate duct attenuation must be provided to reduce sound output from the unit.

[] Designates Metric Conversions

CONCENTRIC DIFFUSER – FLUSH

18" x 36" [457 x 914 mm]

RXRN-AEF3415 (8.5 & 10 Ton [29.9 & 35.2] Models)

For Use With Downflow Transition (RXMC-DD02)
 18" x 36" [457 x 914 mm]
 Supply and Return Ducts

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.

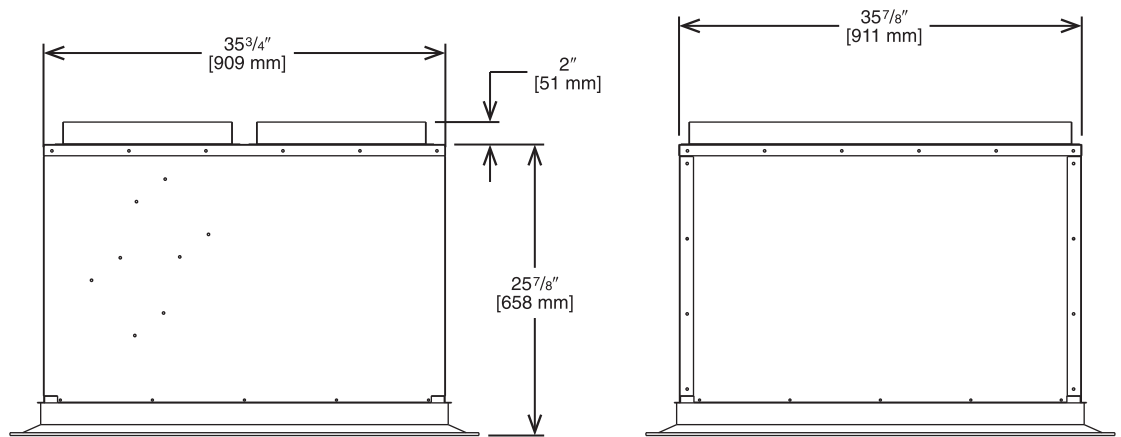
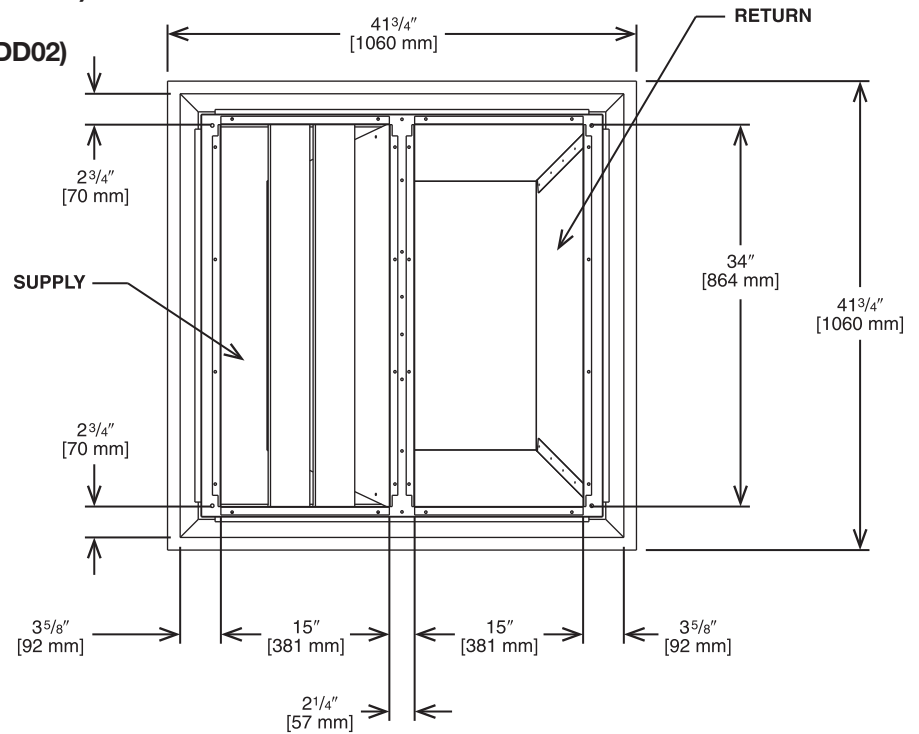


Illustration
 ST-A1273-07-00

ENGINEERING DATA^①

Model No.	Flow Rate CFM [L/s]	Throw ^{② ③} Feet [m]	Neck Velocity fpm [m/s]	Noise Level ^④ (dbA)
RXRN-AEF3415	3600 [1692]	14-34 [4.3-10.4]	844 [4.3]	27
	3800 [1786]	15-36 [4.6-11.1]	891 [4.5]	29
	4000 [1880]	16-37 [4.9-11.3]	938 [4.8]	30
	4200 [1974]	17-39 [5.2-11.9]	985 [5.1]	32
	4400 [2068]	18-41 [5.5-12.5]	1032 [5.2]	33
	4600 [2162]	19-43 [5.8-13.1]	1079 [5.5]	35
	4800 [2256]	20-45 [6.1-13.7]	1126 [5.7]	36

- NOTES: ① All data is based on the air diffusion council guidelines.
 ② Throw data is based on 75 FPM Terminal Velocities using isothermal air.
 ③ Throw is based on diffuser blades being directed in a straight pattern.
 ④ Actual noise levels may vary due to duct design and do not include transmitted unit noise.
 Adequate duct attenuation must be provided to reduce sound output from the unit.

[] Designates Metric Conversions

CONCENTRIC DIFFUSER—FLUSH

18" x 36" [457 x 914 mm]

RXRN-AEF3618 (12.5 & 15 Ton [44.0 & 52.8 kW] Models)

For Use With Downflow Transition (RXMC-DD03)

18" x 36" [457 x 914 mm]

Supply and Return Ducts

- All aluminum diffuser with aluminum return air eggcrate.
- Built-in anti-sweat gasket.
- Molded fiberglass supports.
- Built-in hanging supports.
- Diffuser box constructed of sheetmetal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner.

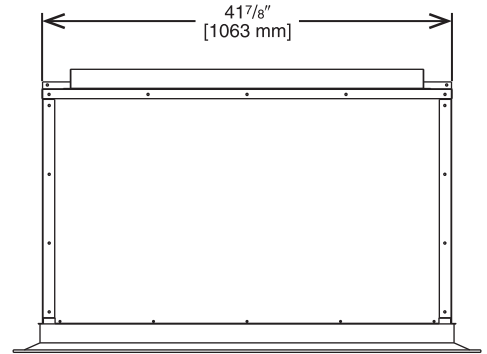
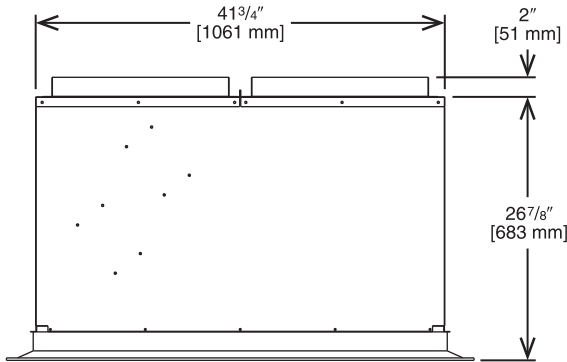
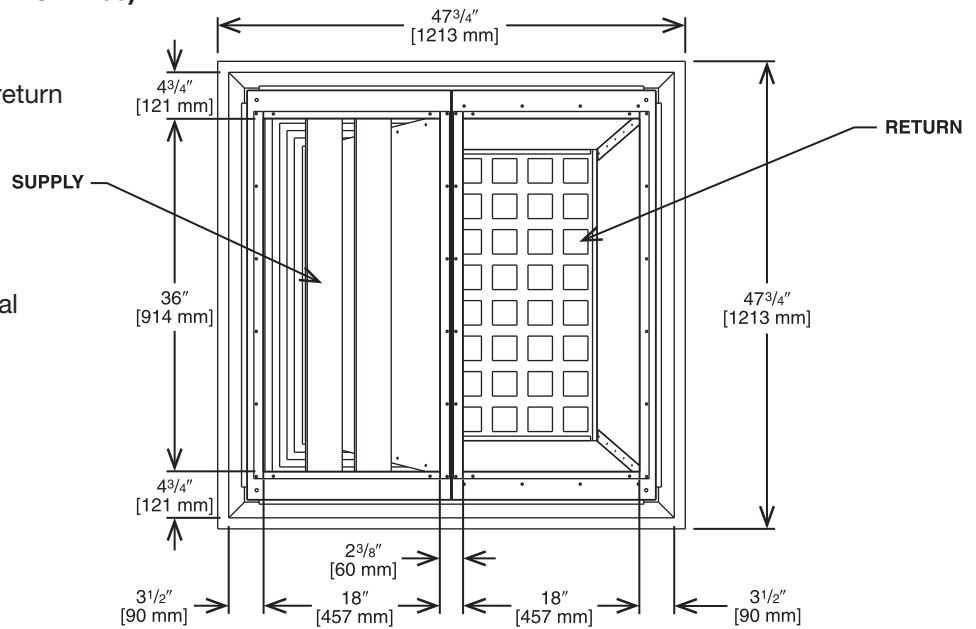


Illustration
 ST-A1273-12-00

ENGINEERING DATA^①

Model No.	Flow Rate CFM [L/s]	Throw ^{② ③} Feet [m]	Neck Velocity fpm [m/s]	Noise Level ^④ (dbA)
RXRN-AEF3618	4400 [2068]	13-28 [4.1-8.5]	922 [47]	35
	4600 [2162]	14-30 [4.3-9.1]	962 [4.9]	37
	4800 [2256]	15-31 [4.6-9.4]	1002 [5.1]	39
	5000 [2350]	16-32 [4.9-9.8]	1043 [5.3]	40
	5200 [2444]	17-33 [5.2-10.1]	1083 [5.5]	42
	5400 [2538]	18-35 [5.5-10.7]	1123 [5.7]	43

- NOTES: ① All data is based on the air diffusion council guidelines.
 ② Throw data is based on 75 FPM Terminal Velocities using isothermal air.
 ③ Throw is based on diffuser blades being directed in a straight pattern.
 ④ Actual noise levels may vary due to duct design and do not include transmitted unit noise.
 Adequate duct attenuation must be provided to reduce sound output from the unit.

[] Designates Metric Conversions

Guide Specifications RGEDZT — 090-150

You may copy this document directly into your building specification. This specification is written to comply with the 2016 version of the “master format” as published by the Construction Specification Institute. www.csinet.org.

GAS HEAT PACKAGED ROOFTOP

HVAC Guide Specifications

Size Range: 7 1/2 to 12 1/2 Nominal Tons

Section	Description
---------	-------------

23 06 80	Schedules for Decentralized HVAC Equipment
-----------------	---

23 06 80.13	Decentralized Unitary HVAC Equipment Schedule
--------------------	--

23 06 80.13.A.	Rooftop unit schedule
----------------	-----------------------

1. Schedule is per the project specification requirements.

23 07 16	HVAC Equipment Insulation
-----------------	----------------------------------

23 07 16.00.A.	Evaporator fan compartment:
----------------	-----------------------------

1. Interior cabinet surfaces shall be insulated with a minimum 1/2-in. thick, minimum 1.6 LB density, flexible fiberglass insulation bonded with foil face on the air side.
2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
3. Insulation shall also be mechanically fastened with welded pin and retainer washer.

23 07 16.00.B.	Gas heat compartment:
----------------	-----------------------

1. Aluminum foil-faced fiberglass insulation shall be used.
2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
3. Insulation shall also be mechanically fastened with welded pin and retainer washer.

23 09 13	Instrumentation and Control Devices for HVAC
-----------------	---

23 09 13.23	Sensors and Transmitters:
--------------------	----------------------------------

23 09 13.23.A.	Thermostats
----------------	-------------

1. Thermostat must
 - a. energize both “W” and “G” when calling for heat.
 - b. have capability to energize 2 different stages of cooling, and 2 different stages of heating.
 - c. must include capability for occupancy scheduling.

23 09 33	Direct-Digital Control System for HVAC
-----------------	---

23 09 33.00.A.	RTU-C controller
----------------	------------------

1. Shall be ASHRAE 62-2001 compliant.
2. Shall accept 18-32VAC input power.
3. Shall have an operating temperature range from -40°F (-40°C) to 158°F (70°C), 10%– 95% RH (non-condensing).
4. Controller shall accept the following inputs: space temperature, setpoint adjustment, outdoor air temperature, indoor air quality, outdoor air enthalpy, fire shutdown, return air enthalpy, fan status, remote time clock/door switch.
5. Shall accept a CO₂ sensor in the conditioned space, and be Demand Control Ventilation (DCV) ready.
6. Shall provide the following outputs: Economizer, fan, cooling stage 1, cooling stage 2, heat stage 1, heat stage 2, exhaust, occupied.
7. Unit shall provide surge protection for the controller through a circuit breaker.
8. Shall have a field installed communication card allowing the unit to be able to communicate at a Baud rate of 19.2K or faster.
9. Shall have an LED display independently showing the status of activity on the communication bus, and processor operation.
10. Optional field installed BACnet® plug-in communication card which includes an EIA-485 protocol communication port, or an optional field installed LonWorks™ plug-in communications card.
11. Software upgrades will be accomplished by local download. Software upgrades through chip replacements are not allowed.
12. Shall be shock resistant in all planes to 5G peak, 11ms during operation, and 100G peak, 11ms during storage.
13. Shall be vibration resistant in all planes to 1.5G @ 20-300 Hz.
14. Shall support a bus length of 4000 ft max, 60 devices per 1000 ft section, and 1 RS-485 repeater per 1000 ft sections.

24 09 33.00.B.	Open protocol, direct digital controller:
----------------	---

1. Shall be ASHRAE 62-2001 compliant.
2. Shall accept 18-30VAC, 50-60Hz, and consumer 15VA or less power.
3. Shall have an operating temperature range from -40°F (-40°C) to 130°F (54°C), 10% - 90% RH (non-condensing).
4. Shall have either a field installed BACnet® plug-in communication card which includes an EIA-485 protocol communication port, or a field installed LonWorks™ plug-in communications card.

5. The BACnet® plug in communication card shall include built-in protocol for BACNET (MS/TP and PTP modes)
6. The LonWorks™ plug in communication card shall include the Echelon processor required for all Lon applications.
7. Shall allow access of up to 62 network variables (SNVT). Shall be compatible with all open controllers
8. Baud rate Controller shall be selectable through the EIA-485 protocol communication port.
9. Shall have an LED display independently showing the status of serial communication, running, errors, power, all digital outputs, and all analog inputs.
10. Shall accept the following inputs: space temperature, setpoint adjustment, outdoor air temperature, indoor air quality, outdoor air enthalpy, compressor lock-out, fire shutdown, enthalpy switch, and fan status/filter status/ humidity/ remote occupancy.
11. Shall provide the following outputs: economizer, fan, cooling stage 1, cooling stage 2, heat stage 1, heat stage 2, exhaust.
12. Software upgrades will be accomplished by either local or remote download. No software upgrades through chip replacements are allowed.
13. Shall be natively equipped with Modbus

23 09 33 Electric and Electronic Control System for HVAC

23 09 33.00.A. General:

1. Shall be complete with self-contained low-voltage control circuit protected by a fuse on the 24-V transformer side (090-150 units have a resettable circuit breaker).
2. Shall utilize color-coded wiring.
3. The heat exchanger shall be controlled by the Core Command microprocessor. See heat exchanger section of this specification.
4. Unit shall include a minimum of one 8-pin screw terminal connection board for connection of control wiring.
5. Unit control board shall be provided with 7 segment readout via LCD display for status and diagnostics.

23 09 33.00.A. Safeties:

1. Compressor over-temperature, over current.
2. Standard Low-pressure switch.
 - a. Units shall have low pressure, loss of charge automatic reset device that will shut off compressor when tripped.
 - b. Low pressure control:
 - Provides active protection in both heating and cooling modes at all outdoor ambient temperatures. The low pressure control is an automatic reset type and opens at approximately 15 psig and closes at approximately 40 psig. Operation is slightly different between cooling and heating modes.
3. Standard High-pressure switch.
 - a. Unit shall be equipped with high pressure switch device that will shut off compressor when tripped.
 - b. High Pressure control:
 - The high pressure control is an automatic reset type and opens at approximately 610 psig and closes at approximately 420 psig. The compressor and fan motor will stop when the high pressure control opens and will start again if the high side pressure drops to approximately 420 psig where the automatic reset high pressure control resets. If the high pressure control opens 3 times within a particular call for heating or cooling operation, the defrost control will lock out compressor and outdoor fan operation.
4. Automatic reset, motor thermal overload protector.
5. Heating section shall be provided with the following minimum protections:
 - a. High-temperature limit switches.
 - b. Induced draft motor pressure switch.
 - c. Flame rollout switch.
 - d. Flame proving controls.

23 09 93 Sequence of Operations for HVAC Controls

23 09 93.00 INSERT SEQUENCE OF OPERATION

23 40 13 Panel Air Filters

23 41 13.00.A. Standard filter section shall

1. Shall consist of factory-installed, low velocity, throwaway 2-in. thick fiberglass filters of commercially available sizes.
2. Unit shall use only one filter size. Multiple sizes are not acceptable.
3. Filter face velocity shall not exceed 365 fpm at nominal airflows.
4. Filters shall be accessible through an access panel with “no-tool” removal as described in the unit cabinet section of the specification (23 81 19.13.H).

23 81 19 Self-Contained Air Conditioners

23 81 19.13 Small Capacity Self-Contained Air Conditioners

23 81 19.13.A. General

1. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing a(n) hermetic scroll compressor(s) for cooling duty and gas combustion for heating duty.
2. Factory assembled, single-piece heating and cooling rooftop unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, and special features required prior to field start-up.
3. Unit shall use environmentally safe, R410A refrigerant.
4. Unit shall be installed in accordance with the manufacturer's instructions.
5. Unit must be selected and installed in compliance with local, state, and federal codes.
6. Model and serial data shall be reprinted inside the control box.

23 81 19.13.B. Quality Assurance

1. Unit meets ASHRAE 90.1-2019 minimum efficiency requirements.
2. Unit shall be rated in accordance with AHRI Standards 340/360.
3. Unit shall be designed to conform to ASHRAE 15.
4. Unit shall be UL-tested and certified in accordance with ANSI Z21.47 Standards and UL-listed and certified under Canadian standards as a total package for safety requirements.
5. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
6. Unit casing shall be capable of withstanding 1000-hour salt spray exposure per ASTM B117 (scribed specimen).
7. Unit shall be designed in accordance with ISO 9001:2015, and shall be manufactured in a facility registered by ISO 9001:2015.
8. Roof curb shall be designed to conform to NRCA Standards.
9. Unit shall be subjected to a completely automated run test on the assembly line. The data for each unit will be stored at the factory, and must be available upon request.
10. Unit shall be designed in accordance with UL Standard 1995, Fifth Ed. including tested to withstand rain.
11. Unit shall be constructed to prevent intrusion of snow and tested to prevent snow intrusion into the control box up to 40 mph.
12. Five (5) years warranty for 3 phase, commercial applications compressor
13. Ten (10) years warranty for 3 phase, commercial applications aluminized heat exchanger
14. Twenty (20) years for 3 phase, commercial applications stainless steel heat exchanger
15. One (1) year warranty for 3 phase, commercial application parts

23 81 19.13.C. Delivery, Storage, and Handling

1. Unit shall be stored and handled per manufacturer's recommendations.
2. Lifted by crane requires either shipping top panel or spreader bars.
3. Unit shall only be stored or positioned in the upright position. 23 81 19.13.E.

23 81 19.13.E. Project Conditions

1. As specified in the contract.

23 81 19.13.F. Operating Characteristics

1. Unit shall be capable of starting and running at 115°F (46°C) ambient outdoor temperature, meeting maximum load criteria of AHRI Standard 360 at ± 10% voltage.
2. Compressor with standard controls shall be capable of operation down to 50°F (10°C), ambient outdoor temperatures. Low ambient accessory kit is necessary if mechanically cooling at ambient temperatures to 0°F (-17.7°C).
3. Unit shall discharge supply air vertically or horizontally as shown on contract drawings.
4. Unit shall be factory configured for vertical supply & return configurations.
5. Unit shall be field convertible from vertical to horizontal configuration.
6. Unit shall be capable of mixed operation: vertical supply with horizontal return or horizontal supply with vertical return.

23 81 19.13.G. Electrical Requirements

1. Main power supply voltage, phase, and frequency must match those required by the manufacturer.

23 81 19.13.H. Unit Cabinet

1. Unit cabinet shall be constructed of galvanized steel.
2. Unit cabinet exterior paint shall be pre-painted steel.
3. The sheet-metal cabinet shall be constructed of 18-gauge material for structural components with an underlying coat of G90.
4. Evaporator fan compartment interior cabinet insulation shall conform to AHRI Standards 360 minimum exterior sweat criteria. Interior surfaces shall be insulated with a minimum 1/2-in. thick, 1.6 lb. density, flexible fiberglass insulation, foil faced on the air side. Aluminum foil-faced fiberglass insulation shall be used in the gas heat compartment.
5. Shall utilize uniform screw sizing.
6. Base of unit shall have a location for thru-the-base gas and electrical connections standard.
7. Base Rail
 - a. Unit shall have base rails on a minimum of 4 sides.
 - b. Holes shall be provided in the base rails for rigging shackles to facilitate maneuvering and overhead rigging.
 - c. Holes shall be provided in the base rail for moving the rooftop for fork truck.
 - d. Base rail shall be a minimum of 14 gauge thickness.
8. Condensate pan and connections:
 - a. Shall be a sloped condensate drain pan made of a non-corrosive material and be removable for cleaning.
 - b. Shall comply with ASHRAE Standard 62.
 - c. Shall use a 3/4" NPT drain connection, possible either through the bottom or side of the drain pan. Connection shall be made per manufacturer's recommendations.
 - d. Shall be able to slide out completely.
 - e. Shall be separate from the coil.
9. Standard factory installed condensate overflow sensor
10. Top panel:
 - a. Shall be a single piece top panel over indoor section.
11. Gas Connections:
 - a. All gas piping connecting to unit gas valve shall enter the unit cabinet at a single location on side of unit (horizontal plane).
 - b. Thru-the-base capability
 - i. Standard unit shall have a thru-the-base gas-line location using a continuous raised, flange around opening in the basepan.
 - ii. No basepan penetration, other than those authorized by the manufacturer, is permitted.
12. Electrical Connections
 - a. All unit power wiring shall enter unit cabinet a single, factory-prepared, continuous raised flange opening in the basepan.
 - b. Thru-the-base capability
 - i. Standard unit shall have a thru-the-base electrical location(s) using a raised, continuous raised flange opening in the basepan.
 - ii. No basepan penetration, other than those authorized by the manufacturer, is permitted.
13. Component access panels (standard)
 - a. Cabinet panels shall be easily opened for servicing.
 - b. Panels covering filters shall have hinges with 1/4 turn fasteners.

23 81 19.13.I. Gas Heat

1. General
 - a. Shall have standard two stage gas heat
 - b. Heat exchanger shall be an induced draft design. Positive pressure heat exchanger designs shall not be allowed.
 - c. Shall incorporate a direct-spark ignition system and redundant main gas valve.
 - d. Heat exchanger design shall allow combustion process condensate to gravity drain; maintenance to drain the gas heat exchanger shall not be required.
 - e. Gas supply pressure at the inlet to the rooftop unit gas valve must match that required by the manufacturer.
2. The heat exchanger shall be controlled by the Core Command microcompressor.
 - a. The Core Command board shall notify users of fault using two 7 segment displays.
3. Standard Heat Exchanger construction
 - a. Heat exchanger shall be of the tubular-section type constructed of a minimum of 20-gauge steel coated with a nominal 1.2 mil. aluminum-silicone alloy for corrosion resistance.

- b. Burners shall be of the in-shot type constructed of aluminum-coated steel
 - c. Burners shall incorporate orifice for rated heat output up to 2,000 ft. (610m) elevation with a gas heating valve of 1050. Alternate orifices may be required depending on local gas heating valves and elevations.
 - d. Each heat exchanger tube shall contain tubulators for increased heating effectiveness.
4. Optional Stainless Steel Heat Exchanger construction
- a. Use energy saving, direct-spark ignition system.
 - b. Use a redundant main gas valve.
 - c. Burners shall be of the in-shot type constructed of aluminum-coated steel.
 - d. All gas piping shall enter the unit cabinet at a single location on side of unit (horizontal plane).
 - e. The optional stainless steel heat exchanger shall be of the tubular-section type, constructed of a minimum of 20-gauge type 409 stainless steel.
 - f. Type 409 stainless steel shall be used in heat exchanger tubes.
 - g. Complete stainless steel heat exchanger allows for greater application flexibility.
5. Induced draft combustion motor and blower
- a. Shall be a direct-drive, single inlet, forward-curved centrifugal type.
 - b. Shall be made from steel with a corrosion-resistant finish.
 - c. Shall be permanently lubricated sealed bearings.
 - d. Shall have inherent thermal overload protection.
 - e. Shall have an automatic reset feature.

23 81 19.13.J. Coils

- 1. Standard Aluminum/MicroChannel Coils:
 - a. Standard evaporator and condenser coils shall be aluminum.
 - b. Evaporator and condenser coils shall be leak tested to 150 psig, pressure tested to 400 psig, and qualified to UL 1995 burst test at 2,200 psi.

23 81 19.13.K. Refrigerant Components

- 1. Refrigerant circuit shall include the following control, safety, and maintenance features:
 - a. TXV metering system shall prevent mal-distribution of two-phase refrigerant.
 - b. Refrigerant filter drier.
 - c. Service gauge connections on suction and discharge lines.
 - d. External pressure gauge ports access shall be located in front exterior of cabinet.
 - e. External gauge ports shall be lockable.
- 2. Compressors
 - a. Unit shall use one fully hermetic, 2-stage scroll compressor for each independent refrigeration circuit.
 - b. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
 - c. Compressors shall be internally protected from high discharge temperature conditions.
 - d. Compressors shall be protected from an over-temperature and over-amperage conditions by an internal, motor overload device.
 - e. Compressor shall be factory mounted on rubber grommets.
 - f. Compressor motors shall have internal line break thermal and current overload protection.
 - g. Crankcase heaters shall not be required for normal operating range.
 - h. Compressor shall have molded electrical plug.

23 81 19.13.L. Filter Section

- 1. Filters access is specified in the unit cabinet section of this specification.
- 2. Filters shall be held in place by filter tray, facilitating easy removal and installation.
- 3. Shall consist of factory-installed, low velocity, throw-away 2-in. thick fiberglass filters.
- 4. Filter face velocity shall not exceed 320 fpm at nominal airflows.
- 5. Filters shall be standard, commercially available sizes.
- 6. Only one size filter per unit is allowed.

23 81 19.13.M. Evaporator Fan and Motor

1. Evaporator fan motor:
 - a. Shall have permanently lubricated bearings
 - b. Shall have inherent automatic-reset thermal overload protection.
 - c. Shall have a maximum continuous bhp rating for continuous duty operation; no safety factors above that rating shall be required.
2. Belt-driven Evaporator Fan:
 - a. Belt drive shall include an adjustable-pitch motor pulley.
 - b. Shall use sealed, permanently lubricated ball-bearing type.
 - c. Blower fan shall be double-inlet type with forward-curved blades.
 - d. Shall be constructed from steel with a corrosion resistant finish and dynamically balanced.
3. Blower Assembly
 - a. Entire assembly shall be able to slide out completely.
 - b. Shall be able to slide-out without the removal of the roof and condenser fan motors.

23 81 19.13.N. Condenser Fans and Motors

1. Condenser fan motors:
 - a. Shall be a totally enclosed motor.
 - b. Shall use permanently lubricated bearings.
 - c. Shall have inherent thermal overload protection with an automatic reset feature.
 - d. Shall use a shaft-down design. Shaft-up designs including those with "rain-slinger devices" shall not be allowed.
2. Condenser Fans shall:
 - a. Shall be a direct-driven propeller type fan.
 - b. Shall have aluminum blades riveted to corrosion-resistant steel spiders and shall be dynamically balanced.

23 81 19.13.O. Special Features

1. Integrated Economizers:
 - a. Integrated, gear-driven parallel modulating blade design type capable of simultaneous economizer and compressor operation.
 - b. Independent modules for vertical or horizontal return configurations shall be available. Vertical return modules shall be available as a factory installed option.
 - c. Damper blades shall be galvanized steel with metal gears. Plastic or composite blades on intake or return shall not be acceptable.
 - d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
 - e. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
 - f. Shall be equipped with low-leakage dampers, not to exceed 2% leakage at 1 in. wg pressure differential.
 - g. Shall be capable of introducing up to 100% outdoor air.
 - h. Shall be equipped with a barometric relief damper capable of relieving up to 35% return air, depending on the airflow.
 - i. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
 - j. Enthalpy sensor shall be provided as standard. Outdoor air sensor set point shall be adjustable and shall range from 40 to 100°F / 4 to 38°C. Additional sensor options shall be available as accessories.
 - k. The economizer controller shall also provide control of an accessory power exhaust unit function. Factory set at 70%, with a range of 0% to 100%.
 - l. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy. A remote potentiometer may be used to override the damper set point.
 - m. Dampers shall be completely closed when the unit is in the unoccupied mode.
 - n. Economizer controller shall accept a 2-10Vdc CO₂ sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor-air damper to provide ventilation based on the sensor input.
 - o. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
 - p. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.
 - q. Economizer wire harness will have provision for smoke detector available in supply and return options.
 - r. Shall provide fault detection and diagnostics (FDD) system in accordance with local code. Faults shall be communicated out on an alarm signal.

2. Manual damper
 - a. Manual damper package shall consist of damper, air inlet screen, and rain hood which can be preset to admit up to 50% outdoor air for year round ventilation.
3. Liquid Propane (LP) Conversion Kit (sold separately)
 - a. Kit shall contain all the necessary hardware and instructions to convert a standard natural gas unit for use with liquefied propane, up to 2000 ft (610m) elevation.
4. Condenser Coil Hail Guard Assembly
 - a. Shall protect against damage from hail.
 - b. Shall be louvered style.
5. Unit-Mounted, Non-Fused Disconnect Switch:
 - a. Switch shall be factory or field installed.
 - b. Switch shall be internally mounted with external access.
 - c. National Electric Code (NEC) and UL approved non-fused switch shall provide unit power shutoff.
 - d. Shall be accessible from outside the unit.
 - e. Shall provide local shutdown and lockout capability.
6. Convenience Outlet:
 - a. Non-Powered convenience outlet.
 - b. Outlet shall be powered from a separate 115-120v power source.
 - c. A transformer shall not be included.
 - d. Outlet shall be field-installed and internally mounted with easily accessible 115-v female receptacle.
 - e. Outlet shall include 15 amp GFI receptacle with independent fuse protection.
 - f. Outlet shall be accessible from outside the unit.
7. Flue Hood:
 - a. Flue discharge deflector shall direct unit exhaust vertically instead of horizontally.
8. Propeller Power Exhaust:
 - a. Power exhaust shall be used in conjunction with an integrated economizer.
 - b. Independent modules for vertical or horizontal return configurations shall be available.
 - c. Horizontal power exhaust is shall be mounted in return ductwork.
 - d. Power exhaust shall be controlled by economizer controller operation. Exhaust fans shall be energized when dampers open past the 0-100% adjustable setpoint on the economizer control.
 - e. Capable of adjustable but constant volume.
9. Dehumidification
 - a. Shall utilize a dual-phase hot gas reheat control sequence.
 - b. Shall be installed with a thermostat or space temperature sensor and an indoor relative humidity sensor, which shall connect to the Rooftop Unit Controller (RTU-C).
 - c. Shall provide neutral air to the occupied space.
 - d. Shall have two modes: Cooling and Dehumidification.
 - e. In cooling mode, the vapor refrigerant shall remove the heat to the outdoor coil, where heat is released outdoor. This allows the refrigerant to condense and become a subcooled liquid and the process shall repeat itself.
 - f. In dehumidification mode, the refrigerant shall absorb heat via the indoor coil from the cooling area. The heat shall be carried via a parallel path to then release heat back into the cooling area allowing for the dehumidification.
 - g. Modulate reheat coil refrigerant temperature via outdoor fan motor controller to achieve neutral air.
 - h. Variable Frequency Drive shall allow the unit to operate with two stages of heat.
10. Roof Curbs (Vertical):
 - a. Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
 - b. Permits installation and securing of ductwork to curb prior to mounting unit on the curb.
11. Return Air Enthalpy Sensor:
 - a. The return air enthalpy sensor shall be used in conjunction with an outdoor air enthalpy sensor to provide differential enthalpy control.
12. Indoor Air Quality (CO₂) Sensor:
 - a. Shall be able to provide demand ventilation indoor air quality (IAQ) control.
 - b. The IAQ sensor shall be available in duct mount, wall mount, or wall mount with LED display. The set point shall have adjustment capability.

13. Smoke detectors:
 - a. Shall be a Four-Wire Controller and Detector.
 - b. Shall be environmental compensated with differential sensing for reliable, stable, and drift-free sensitivity.
 - c. Shall use magnet-activated test/reset sensor switches.
 - d. Shall have tool-less connection terminal access.
 - e. Shall have a recessed momentary switch for testing and resetting the detector.
 - f. Controller shall include:
 - One set of normally open alarm initiation contacts for connection to an initiating device circuit on a fire alarm control panel
 - Two Form-C auxiliary alarm relays for interface with rooftop unit or other equipment
 - One Form-C supervision (trouble) relay to control the operation of the Trouble LED on a remote test/reset station
 - Capable of direct connection to two individual detector modules.
 - Can be wired to up to 14 other duct smoke detectors for multiple fan shutdown applications.
14. Barometric relief
 - a. Shall include damper, seals, hard-ware, and hoods to relieve excess building pressure.
 - b. Damper shall gravity-close upon shutdown.
15. Time Guard
 - a. Shall prevent compressor short cycling by providing a 5-minute delay (± 2 minutes) before restarting a compressor after shutdown for any reason.
 - b. One device shall be required per compressor.
16. Standard Factory installed Overflow Switch
 - a. Switch shall monitor the condensate level in drain pan and stops compression operation when overflow conditions occur.
17. Access Panels
 - a. Hinges with 1/4 turn fasteners shall be permanently attached.
 - b. Hinges shall be powder coated and made from stainless steel.

26 29 23.12.P. Adjustable Frequency Drive

1. Unit shall be supplied with an electronic variable frequency drive for the supply air fan.
2. Drive shall be factory installed in an enclosed cabinet.
3. Drive shall meet UL Standard 95-5V.
4. The completed unit assembly shall be UL listed.
5. Drives are to be accessible through a tooled access hinged door assembly.
6. The unit manufacturer shall install all power and control wiring.
7. The supply air fan drive output shall be controlled by the factory installed main unit control system and drive status and operating speed shall be monitored and displayed at the main unit control panel.
8. Drive shall be programmed and factory run tested in the unit.

BEFORE PURCHASING THIS APPLIANCE, READ IMPORTANT ENERGY COST AND EFFICIENCY INFORMATION AVAILABLE FROM YOUR RETAILER.

GENERAL TERMS OF LIMITED WARRANTY*

Mainline® will furnish a replacement for any part of this product which fails in normal use and service within the applicable periods stated, in accordance with the terms of the limited warranty.

***For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.**

Compressor

3 Phase, Commercial ApplicationsFive (5) Years

Aluminized Heat Exchanger

3 Phase, Commercial ApplicationsTen (10) Years

Stainless Steel Heat Exchanger

3 Phase, Commercial ApplicationsTwenty (20) Years

Parts

3 Phase, Commercial ApplicationsOne (1) Year

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

www.MainlineCollection.com

"In keeping with its policy of continuous progress and product improvement, the right is reserved to make changes without notice."