



The new degree of comfort.™



Package Gas Electric
RGED Series

Commercial Renaissance™ Line Package Gas Electric Units



RGEDZT Commercial *Prestige*® Series

Nominal Sizes 7.5, 8.5, 10 & 12.5 Tons

Standard VFD and optional HumidiDry™ Technology

ASHRAE 90.1-2019 Compliant Models



INTEGRATED AIR & WATER

FORM NO. R11-872 REV. 8

TABLE OF CONTENTS

Unit Features & Benefits	3-11
Model Number Identification	12
Options	13
Selection Procedure	14
General Data	15
General Data Notes	16
Heating Performance Data	17
Gross Systems Performance Data	18-21
HumidiDry™ Gross Systems Performance Data	22-25
Airflow Performance Data	26-41
Electrical Data	42-45
Dimensional Data	46-48
Field Installed Accessories	49-69
Guide Specifications	70-77
Limited Warranty	79



Air

Unit Features & Benefits
RGED Series

TIER COMPARISON

	Single-Stage Cooling	Two-Stage Cooling	2018 DOE Efficiency Standards Compliant	2023 DOE Efficiency Standards Compliant	VFD Technology	HumidiDry™
<i>Commercial Prestige® Series (RGEDZT)</i>		X	X	X	X	X (Optional)

RGED 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
- PlusOne® ServiceSmart package includes:
Qwik-Change Flex-Fit Rack™
Qwik-Slide Blower Assembly™
Qwik-Clean Drain Pan™
- Overflow condensate sensor
- PlusOne® 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



INTEGRATED AIR & WATER



FACTORY INSTALLED OPTIONS:

- Louvered panels
- Hinged access doors
- Stainless steel heat exchanger (20 year warranty)
- PlusOne® HumidiDry™ 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
- ClearControl™ Direct Digital Control (DDC)
- Comfort Alert Phase-monitor Protection
- Vertical Economizer

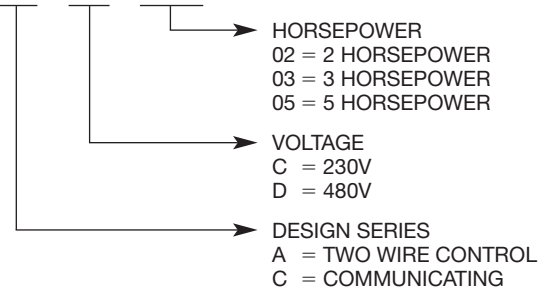
FIELD INSTALLED ACCESSORIES:

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	RXXR-BV01	No
Dual Enthalpy Kit DDC	RXXR-BV02	No
Carbon Dioxide Sensor (Wall Mount)	RXXR-AR02	No
Power Exhaust	RXXR-CDF01C	No
Power Exhaust	RXXR-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	RXXR-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	RXXR-ADD04A	Yes

*Compatible with 1st generation "B" series units

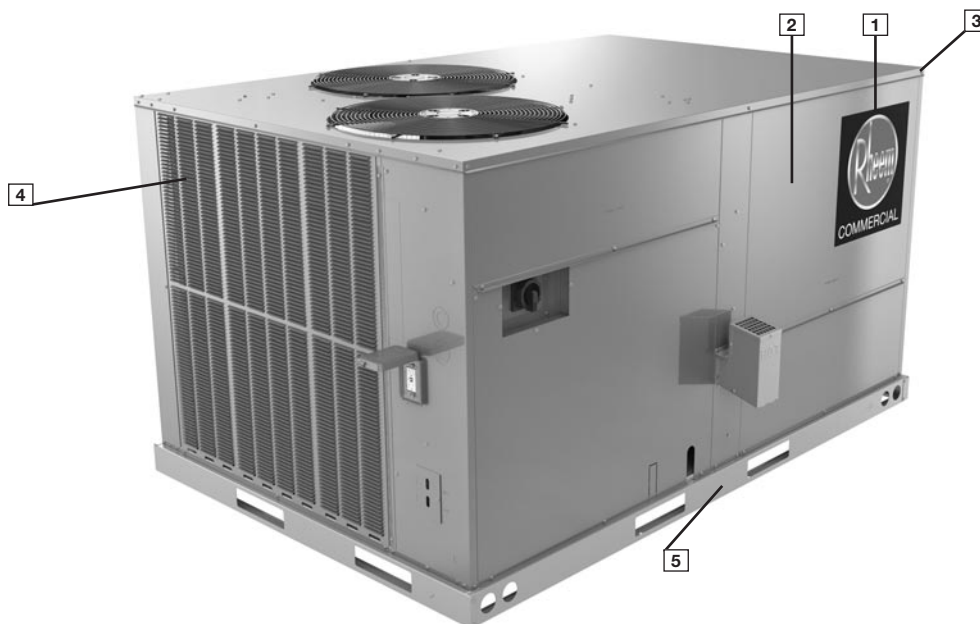
Accessory	Model Number	Factory Installation Available?
Outdoor Coil Louver Kit - GED-150	RXXR-ADD04B	Yes
Unwired Convenience Outlet	RXXR-BN01	Yes
Unfused Service Disconnect	RXXR-BP01	Yes
Comfort Alert (1 Per Compressor)	RXXR-AZ02	Yes
BACnet Communication Card	RXXR-AY01	No
LonWorks Communication Card	RXXR-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	RXXR-AM01	Yes
LP Conversion Kit	RXGJ-FP39	No
Flue Diverter	RXXR-DFG04	No
Variable Frequency Drive Kit* *See model number break down below	RXXR-AC02	No
	RXXR-AC03	No
	RXXR-AC05	No
	RXXR-AD02	No
	RXXR-AD03	No
	RXXR-AD05	No
	RXXR-CC02	No
	RXXR-CC03	No
	RXXR-CC05	No
	RXXR-CD02	No
	RXXR-CD03	No
	RXXR-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

RXXR - A C 02





Air

Unit Features & Benefits
RGED Series

Cabinet and Foundation

Outwardly, the large *Rheem® Commercial Series* 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 Rheem 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.

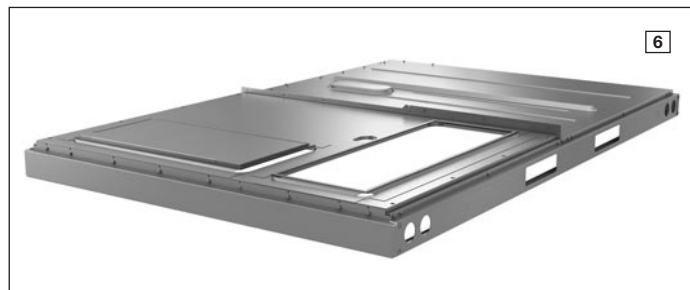
Anything built to last must start with the right foundation. Following that model, the foundation is comprised of 14-gauge, commercial-grade, full perimeter base rails ([5]) that integrate fork slots and rigging holes to save set-up time on the job site.

Easy Installation

The Renaissance 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.

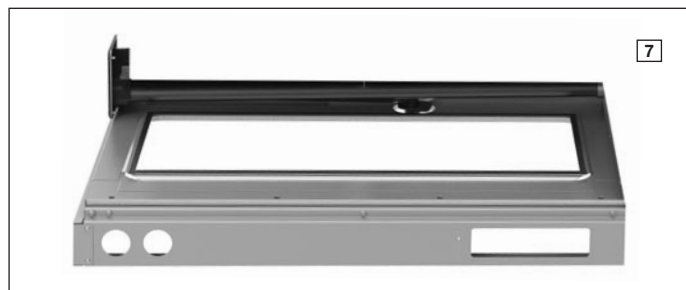
Base Pan

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 Qwik-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 Rheem-required reliability tests. Rheem 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 Rheem package 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.

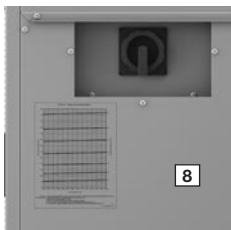


INTEGRATED AIR & WATER



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

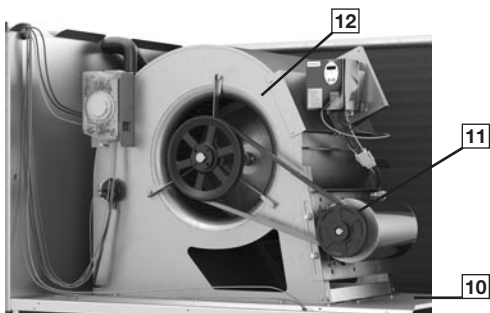
Located within the filter compartment, the Qwik-Change Flex-Fit Rack™ ([9]) allows easy changeover between 2" and 4" standard size and readily available filters.



Blower Assembly

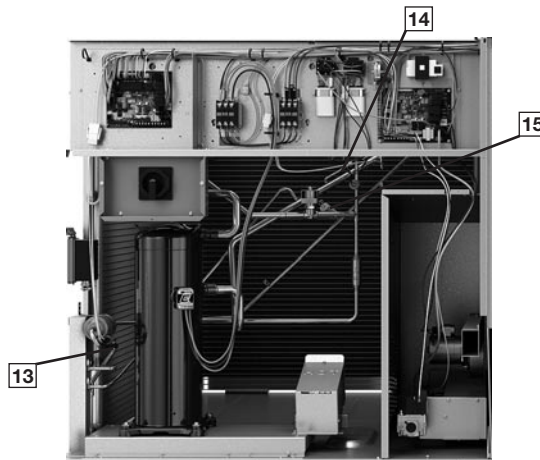
Removing three screws provides full access to the blower compartment. Inside, the Qwik-Slide Blower Assembly™ ([10]) is incredibly easy to access and remove. This makes servicing internal components such as blower motor, TXV, and microchannel coil much easier. The entire assembly slides out by removing 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, Rheem 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.



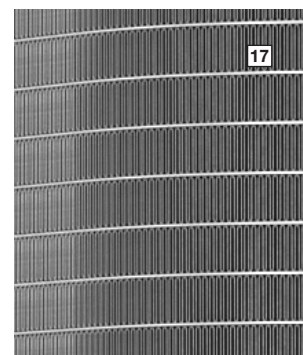
High and Low Pressure Switches & Freeze Stat

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 ClearControl), 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.



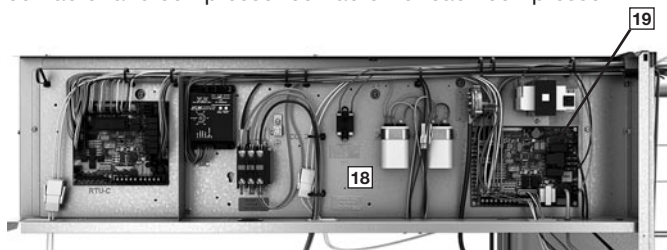
MicroChannel Evaporator & TXV

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 PlusOne 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.



ClearControl™

The optional ClearControl™ 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, micro-processor-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.

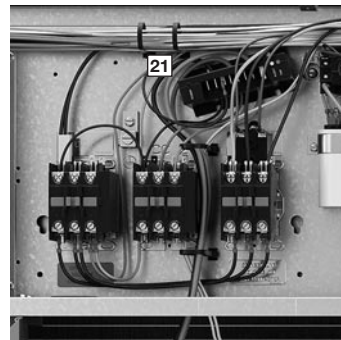


The RGED Gas Electric with the RTU-C is specifically designed to be applied in four distinct applications:

- 1. BACnet Communication** — The RGED 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 RGED 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 RGED 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 RGED 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.





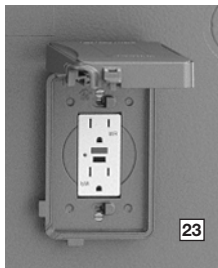
Variable Frequency Drive

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.



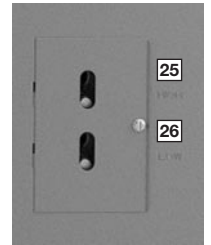
Convenience Outlet, Disconnect, & Circuit Breaker

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

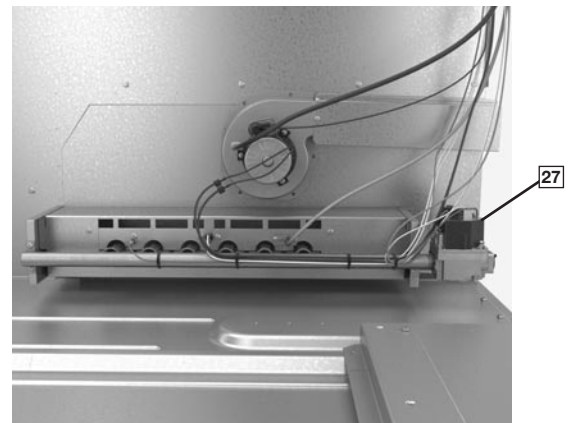
To the right left of the compressor compartment are the externally mounted lockable gauge ports. They are permanently identified by embossed lettering that identifies the compressor circuit, high pressure connection, (25) and low pressure connection (26). Because the gauge ports are mounted externally, 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.



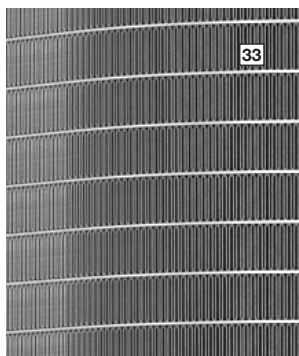
Condenser Fans

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.



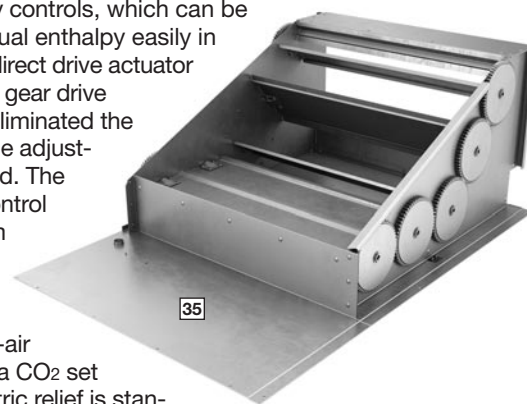
Coil Coating

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 Rheem 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.



HUMIDIDRY™ SYSTEM FEATURES

HumidiDry™ is a Rheem exclusive dehumidification package unit solution. It delivers maximum humidity control without compromising desired temperature set point for a high degree of comfort. HumidiDry maintains humidity levels at a desired set point when there's little or no demand for air conditioning. The HumidiDry 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, HumidiDry 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, HumidiDry 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 HumidiDry 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 HumidiDry 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.

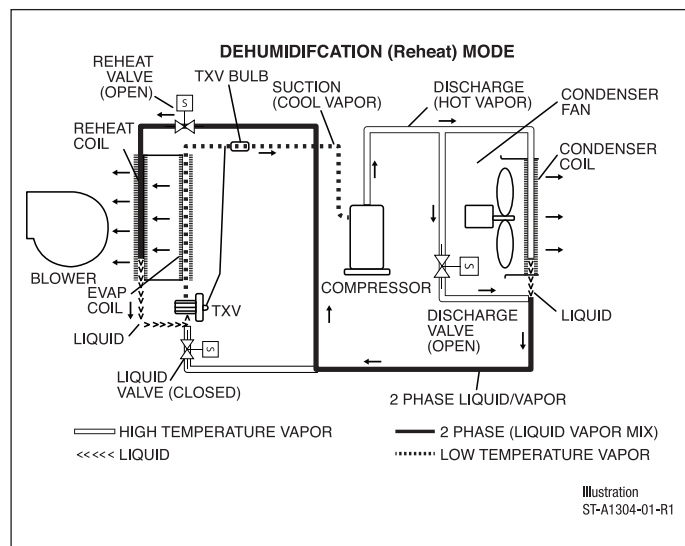
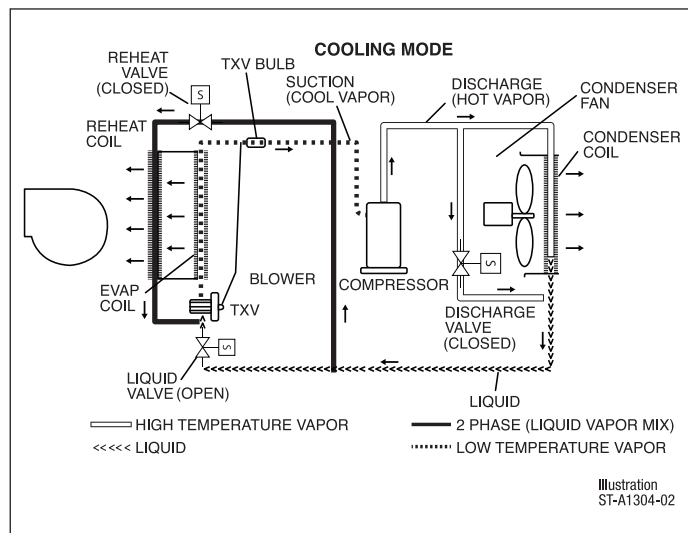


Figure 2 shows the refrigerant path during the reheat mode. When the reheat cycle is energized by the RTU-C, the reheat solenoid valve, upstream of the reheat coil opens. The liquid solenoid valve ahead of the TXV, closes. The discharge solenoid valve, in the compressor discharge line, opens. The liquid 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** **A** **15** **2** **A** **A** *******
1 **23** **4** **56** **789** **10** **11** **12** **13 14** **15** **16** **17** **18 19 20**

1—Brand

R = Rheem

2, 3—Unit Type

GE = Package Gas Electric

4—Cabinet Type

D = Medium Commercial

5, 6—Series

ZT¹ = Tier 1 (*Commercial
Prestige® Series*)

7, 8, 9—Capacity

090 = 7.5 ton
102 = 8.5 ton
120 = 10 ton
150 = 12.5 ton⁴

10—Major series

A

11—Voltage

C = 3 phase 208-230/60
D = 3 phase 460/60
Y = 3 phase 575/60

12—Drive

A = belt low static
B = belt med static
C = belt high static
F = belt VFD low static
G = belt VFD med static
H = belt VFD high static

13, 14—Heat Capacity

15 = 150k
20 = 205k⁵
22 = 225k⁶

15—Heat Configuration

2 = 2 stage
B = 2 stage Stainless

16—Control

A = Non communicating
B = Comfort Alert/Phase Monitor
C = Clear Control
D = Clear Control & 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 RGED (7.5 TO 12.5 TON)

18					19					20			
LV = Louver protection					LF = Low Ambient / Freeze Stat					EC = Economizer			
RH = Reheat (HumidiDry™) 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 (HumidiDry™) 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



Base model



Option code



= Model number with option code



To select an RGEDZ 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.

$$\text{Net Total Capacity} = 118,859 \text{ (step 3)} - 5,875 \text{ (step 5)} = 112,984 \text{ BTUH [33.1 kW]}$$

$$\text{Net Sensible Capacity} = 96,283 \text{ (step 3)} - 5,875 \text{ (step 5)} = 90,408 \text{ BTUH [26.5 kW]}$$

7. CALCULATE UNIT INPUT AND JOB EER.

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

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

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



NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2007* COMPLIANT MODELS

Model RGEDZS - Series	ZS090	ZS102	ZS120A	ZS150
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
IEERB	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]	5000/3750 [2360/1770]
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	7.35	7.35	9.83	13.69
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	Single	Single	Single	Single
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]	117 [3317]	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]

See Page 15 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.

**RGED** HEATING PERFORMANCE**

Model RGED**	Heating Input BTU [kW] (1 st Stage / 2 nd Stage)	Heating Output BTU [kW] (1 st Stage / 2 nd Stage)	Temperature Rise Range °F [°C] (1 st Stage / 2 nd 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

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]				61°F [16.1°C]				59°F [15.0°C]			
CFM [L/s]		3600 [1699]	2775 [1310]	2400 [1133]	2000 [866]	3600 [1699]	2775 [1310]	2400 [1133]	2000 [866]	3600 [1699]	2775 [1310]	2400 [1133]	2000 [866]	3600 [1699]	2775 [1310]	2400 [1133]	2000 [866]	3600 [1699]	2775 [1310]	2400 [1133]	
DR ①		0.17	0.13	0.11	0.09	0.17	0.13	0.11	0.09	0.17	0.13	0.11	0.09	0.17	0.13	0.11	0.09	0.17	0.13	0.11	
75 [23.9]	Total BTUH [kW]	119.6 [35.0]	113.5 [33.2]	110.7 [32.4]	107.0 [31.3]	112.7 [33.0]	107.0 [31.6]	104.3 [30.6]	101.5 [29.6]	107.8 [31.6]	102.3 [30.0]	99.8 [29.2]	97.3 [28.5]	106.4 [31.2]	100.9 [29.6]	98.4 [28.8]	95.9 [28.1]	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]	54.9 [16.1]	83.3 [24.4]	73.2 [21.4]	68.5 [20.1]	65.5 [19.3]	96.0 [28.1]	84.3 [24.7]	79.0 [23.2]	76.5 [22.6]	102.2 [29.9]	89.7 [26.3]	84.1 [24.6]	81.6 [24.1]	105.8 [31.0]	94.9 [27.8]	88.9 [26.1]	
	Power	5.2	5.1	5.0	4.9	5.1	5.1	4.9	4.8	4.8	5.1	4.9	4.9	4.8	5.0	4.9	4.9	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]	109.2 [32.0]	103.6 [30.4]	101.1 [29.6]	98.3 [28.7]	104.3 [30.6]	99.0 [29.0]	96.5 [28.3]	94.0 [27.6]	102.9 [30.1]	97.6 [28.6]	95.2 [27.9]	92.7 [27.3]	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]	53.5 [15.7]	81.4 [23.9]	71.5 [20.9]	67.0 [19.6]	64.2 [18.9]	94.1 [27.6]	82.7 [24.2]	77.4 [22.7]	74.9 [22.2]	100.3 [29.4]	88.1 [25.8]	82.5 [24.2]	79.9 [23.6]	102.3 [30.0]	93.2 [27.3]	87.4 [25.6]	
	Power	5.6	5.4	5.4	5.3	5.5	5.4	5.3	5.2	5.2	5.5	5.3	5.3	5.2	5.4	5.3	5.2	5.4	5.3	5.2	
85 [29.4]	Total BTUH [kW]	112.6 [33.0]	106.8 [31.3]	104.2 [30.5]	101.4 [29.6]	105.7 [31.0]	100.3 [29.4]	97.8 [28.7]	95.0 [28.1]	100.8 [29.5]	95.6 [28.0]	93.3 [27.3]	90.9 [26.9]	99.3 [29.1]	94.2 [27.6]	91.9 [26.9]	89.5 [26.3]	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]	52.0 [15.3]	79.5 [23.3]	69.8 [20.5]	65.4 [19.2]	62.6 [18.5]	92.3 [27.0]	81.0 [23.7]	75.9 [22.2]	73.4 [21.8]	98.4 [28.8]	86.4 [25.3]	81.0 [23.7]	78.5 [23.2]	98.8 [28.9]	91.6 [26.8]	85.8 [25.1]	
	Power	6.0	5.9	5.8	5.7	6.0	5.8	5.8	5.7	5.7	5.9	5.8	5.7	5.7	5.9	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]	98.1 [28.7]	102.1 [29.9]	96.9 [28.4]	94.5 [27.7]	91.7 [26.8]	97.2 [28.5]	92.2 [27.0]	90.0 [26.4]	87.4 [26.0]	95.8 [28.1]	90.9 [26.6]	88.6 [26.0]	86.2 [25.5]	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]	50.4 [14.8]	77.7 [22.8]	68.2 [20.0]	63.9 [18.7]	61.1 [18.0]	90.4 [26.5]	79.4 [23.3]	74.4 [21.8]	71.9 [21.4]	92.2 [27.0]	84.8 [24.8]	79.4 [23.3]	76.9 [22.8]	95.2 [27.9]	90.0 [26.4]	84.3 [24.7]	
	Power	6.6	6.4	6.3	6.2	6.5	6.4	6.3	6.2	6.2	6.5	6.3	6.2	6.2	6.4	6.3	6.2	6.4	6.2	6.2	
95 [35]	Total BTUH [kW]	105.4 [30.9]	100.0 [29.3]	97.5 [28.6]	94.7 [27.7]	98.5 [28.9]	93.5 [27.4]	91.2 [26.7]	88.4 [26.0]	93.6 [27.4]	88.8 [26.0]	86.6 [25.4]	84.2 [24.9]	92.2 [27.0]	87.4 [25.6]	85.3 [25.0]	82.9 [24.5]	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]	49.0 [14.4]	75.8 [22.2]	66.6 [19.5]	62.4 [18.3]	59.6 [17.6]	88.6 [26.0]	77.8 [22.8]	72.9 [21.4]	70.4 [20.9]	92.2 [27.0]	83.2 [24.4]	77.9 [22.8]	75.4 [22.3]	91.6 [26.8]	86.9 [25.5]	82.8 [24.3]	
	Power	7.2	7.0	6.9	6.8	7.2	7.0	6.9	6.8	6.8	7.1	6.9	6.8	6.8	7.1	6.9	6.8	7.0	6.9	6.8	
100 [37.8]	Total BTUH [kW]	101.7 [29.8]	96.5 [28.3]	94.2 [27.6]	91.4 [26.7]	94.9 [27.8]	90.0 [26.4]	87.8 [25.7]	85.0 [25.0]	90.8 [26.4]	86.0 [25.0]	83.8 [24.4]	81.4 [24.0]	88.5 [25.9]	84.0 [24.6]	81.9 [24.0]	79.5 [23.5]	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]	47.4 [13.9]	74.0 [21.7]	65.0 [19.0]	60.9 [17.8]	57.9 [17.0]	86.7 [25.4]	76.2 [22.3]	71.4 [20.9]	68.9 [20.5]	88.5 [25.9]	81.6 [23.9]	76.4 [22.4]	73.9 [21.9]	88.0 [25.8]	83.4 [24.5]	81.3 [23.8]	
	Power	7.9	7.7	7.6	7.5	7.9	7.7	7.6	7.5	7.5	7.8	7.6	7.5	7.5	7.8	7.6	7.5	7.7	7.5	7.4	
105 [40.6]	Total BTUH [kW]	98.1 [28.7]	93.0 [27.3]	90.7 [26.6]	87.9 [25.9]	91.2 [26.7]	86.5 [25.4]	84.4 [24.7]	81.6 [24.0]	86.3 [25.3]	81.9 [24.0]	79.8 [23.4]	77.4 [22.9]	84.8 [24.9]	80.5 [23.6]	78.5 [23.0]	76.1 [22.5]	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]	45.9 [13.6]	72.2 [21.2]	63.4 [18.6]	59.4 [17.4]	56.4 [16.8]	84.9 [24.9]	74.6 [21.9]	69.9 [20.5]	67.4 [20.0]	84.8 [24.9]	80.0 [23.4]	74.9 [22.0]	72.4 [21.5]	84.3 [24.7]	79.9 [23.4]	78.0 [22.9]	
	Power	8.7	8.5	8.4	8.3	8.6	8.4	8.3	8.2	8.2	8.6	8.4	8.3	8.3	8.5	8.3	8.2	8.5	8.3	8.2	
110 [43.3]	Total BTUH [kW]	94.3 [27.6]	89.5 [26.2]	87.3 [25.6]	84.5 [24.9]	87.5 [25.6]	83.0 [24.3]	81.0 [23.7]	78.2 [23.0]	82.6 [24.2]	78.3 [23.0]	76.4 [22.4]	74.0 [21.9]	81.1 [23.8]	76.9 [22.5]	75.1 [22.0]	72.7 [21.5]	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]	44.4 [13.2]	70.4 [20.6]	61.9 [18.1]	57.9 [17.0]	54.9 [16.4]	82.6 [24.2]	73.0 [21.4]	68.4 [20.1]	65.9 [20.0]	81.1 [23.8]	76.9 [22.5]	73.5 [21.5]	71.0 [21.0]	80.5 [23.6]	76.4 [22.4]	74.5 [21.8]	
	Power	9.5	9.3	9.2	9.1	9.5	9.2	9.1	9.0	9.0	9.4	9.2	9.1	9.1	9.4	9.2	9.0	9.4	9.1	9.0	
115 [46.1]	Total BTUH [kW]	90.6 [26.5]	85.9 [25.2]	83.8 [24.6]	81.0 [24.0]	83.7 [24.5]	79.4 [23.3]	77.5 [22.7]	74.7 [22.0]	78.8 [23.1]	74.8 [21.9]	72.9 [21.4]	70.4 [20.9]	77.3 [22.7]	73.4 [21.5]	71.6 [21.0]	69.1 [20.5]	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]	42.9 [12.7]	68.7 [20.1]	60.3 [17.7]	56.5 [16.6]	53.5 [16.0]	78.8 [23.1]	71.5 [20.9]	67.0 [19.6]	64.5 [19.2]	77.3 [22.7]	73.4 [21.5]	71.6 [21.0]	69.1 [20.5]	76.8 [22.5]	72.8 [21.3]	71.1 [20.8]	
	Power	10.5	10.2	10.1	10.0	10.4	10.2	10.0	9.9	9.9	10.4	10.1	10.0	9.9	10.3	10.1	9.9	10.3	10.0	9.9	
120 [48.9]	Total BTUH [kW]	86.8 [25.4]	82.3 [24.1]	80.3 [23.5]	77.5 [22.8]	79.9 [23.4]	75.8 [22.2]	74.0 [21.7]	71.2 [21.0]	75.0 [22.0]	71.1 [20.8]	69.4 [20.3]	66.9 [20.0]	73.5 [21.6]	69.8 [20.4]	68.1 [19.9]	65.6 [19.2]	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]	41.5 [12.3]	66.9 [19.6]	58.8 [17.2]	55.1 [16.1]	52.2 [15.6]	75.0 [22.0]	70.0 [20.5]	65.5 [19.2]	63.0 [18.7]	73.5 [21.6]	69.8 [20.4]	68.1 [19.9]	65.6 [19.2]	73.0 [21.4]	69.2 [20.3]	67.5 [19.8]	
	Power	11.5	11.2	11.1	11.0	11.4	11.1	11.0	10.9	10.9	11.4	11.1	11.0	11.0	11.3	11.1	10.9	11.3	11.0	10.9	
125 [51.7]	Total BTUH [kW]	82.9 [24.3]	78.7 [23.1]	76.8 [22.5]	74.0 [21.8]	76.1 [22.3]	72.2 [21.2]	70.4 [20.6]	67.6 [20.0]	71.2 [20.9]	67.5 [19.8]	65.8 [19.3]	63.3 [18.8]	69.7 [20.4]	66.1 [19.4]	64.5 [18.9]	62.0 [18.4]	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]	40.1 [11.9]	65.2 [19.1]	57.3 [16.8]	53.7 [15.7]	50.8 [15.2]	71.2 [20.9]	67.5 [19.8]	64.1 [18.8]	61.6 [18.3]	69.7 [20.4]	66.1 [19.4]	64.5 [18.9]	62.0 [18.4]	69.1 [20.3]	65.6 [19.2]	64.0 [18.8]	
	Power	12.6	12.3	12.1	12.0	12.5	12.2	12.1	12.0	12.0	12.5	12.2	12.1	12.0	12.4	12.1	12.0	12.4	12.1	11.9	

DR —Depression ratio
dbE —Entering air dry bulb
wBE —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

COOLING PERFORMANCE DATA — RGEDZT102A

wBE		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①												61°F [16.1°C]				59°F [15.0°C]			
		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]			
		4100 [1935]	3200 [1510]	2700 [1274]	2100 [1024]	4100 [1935]	3200 [1510]	2700 [1274]	2100 [1024]	4100 [1935]	3200 [1510]	2700 [1274]	2100 [1024]	4100 [1935]	3200 [1510]	2700 [1274]	2100 [1024]	4100 [1935]	3200 [1510]	2700 [1274]	2100 [1024]
CFM [L/s]		0.11				0.11				0.11				0.11				0.11			
75 [23.9]	Total BTU/h [kW]	129.9 [38.1]	123.6 [36.2]	120.1 [35.2]	116.7 [34.2]	116.7 [34.2]	116.7 [34.2]	116.7 [34.2]	116.7 [34.2]	116.7 [34.2]	116.7 [34.2]	116.7 [34.2]	116.7 [34.2]	116.7 [34.2]	116.7 [34.2]	116.7 [34.2]	116.7 [34.2]	116.7 [34.2]	116.7 [34.2]	116.7 [34.2]	116.7 [34.2]
	Sens BTU/h [kW]	81.3 [23.8]	71.9 [21.1]	66.6 [19.5]	61.1 [17.8]	61.1 [17.8]	61.1 [17.8]	61.1 [17.8]	61.1 [17.8]	61.1 [17.8]	61.1 [17.8]	61.1 [17.8]	61.1 [17.8]	61.1 [17.8]	61.1 [17.8]	61.1 [17.8]	61.1 [17.8]	61.1 [17.8]	61.1 [17.8]	61.1 [17.8]	61.1 [17.8]
80 [26.7]	Total BTU/h [kW]	125.7 [36.8]	119.5 [35.0]	116.1 [34.0]	112.7 [33.0]	112.7 [33.0]	112.7 [33.0]	112.7 [33.0]	112.7 [33.0]	112.7 [33.0]	112.7 [33.0]	112.7 [33.0]	112.7 [33.0]	112.7 [33.0]	112.7 [33.0]	112.7 [33.0]	112.7 [33.0]	112.7 [33.0]	112.7 [33.0]	112.7 [33.0]	112.7 [33.0]
	Sens BTU/h [kW]	79.2 [23.2]	70.0 [20.5]	64.9 [19.0]	60.4 [17.6]	60.4 [17.6]	60.4 [17.6]	60.4 [17.6]	60.4 [17.6]	60.4 [17.6]	60.4 [17.6]	60.4 [17.6]	60.4 [17.6]	60.4 [17.6]	60.4 [17.6]	60.4 [17.6]	60.4 [17.6]	60.4 [17.6]	60.4 [17.6]	60.4 [17.6]	60.4 [17.6]
85 [29.4]	Total BTU/h [kW]	121.4 [35.6]	115.5 [33.8]	112.2 [32.9]	108.8 [31.9]	108.8 [31.9]	108.8 [31.9]	108.8 [31.9]	108.8 [31.9]	108.8 [31.9]	108.8 [31.9]	108.8 [31.9]	108.8 [31.9]	108.8 [31.9]	108.8 [31.9]	108.8 [31.9]	108.8 [31.9]	108.8 [31.9]	108.8 [31.9]	108.8 [31.9]	108.8 [31.9]
	Sens BTU/h [kW]	77.0 [22.6]	68.1 [20.0]	63.1 [18.5]	58.6 [17.1]	58.6 [17.1]	58.6 [17.1]	58.6 [17.1]	58.6 [17.1]	58.6 [17.1]	58.6 [17.1]	58.6 [17.1]	58.6 [17.1]	58.6 [17.1]	58.6 [17.1]	58.6 [17.1]	58.6 [17.1]	58.6 [17.1]	58.6 [17.1]	58.6 [17.1]	58.6 [17.1]
90 [32.2]	Total BTU/h [kW]	117.1 [34.3]	111.4 [32.7]	108.3 [31.7]	105.0 [30.8]	105.0 [30.8]	105.0 [30.8]	105.0 [30.8]	105.0 [30.8]	105.0 [30.8]	105.0 [30.8]	105.0 [30.8]	105.0 [30.8]	105.0 [30.8]	105.0 [30.8]	105.0 [30.8]	105.0 [30.8]	105.0 [30.8]	105.0 [30.8]	105.0 [30.8]	105.0 [30.8]
	Sens BTU/h [kW]	74.9 [21.9]	66.2 [19.4]	61.4 [18.0]	56.9 [16.6]	56.9 [16.6]	56.9 [16.6]	56.9 [16.6]	56.9 [16.6]	56.9 [16.6]	56.9 [16.6]	56.9 [16.6]	56.9 [16.6]	56.9 [16.6]	56.9 [16.6]	56.9 [16.6]	56.9 [16.6]	56.9 [16.6]	56.9 [16.6]	56.9 [16.6]	56.9 [16.6]
95 [35]	Total BTU/h [kW]	112.9 [33.1]	107.4 [31.5]	104.3 [30.6]	101.0 [29.7]	101.0 [29.7]	101.0 [29.7]	101.0 [29.7]	101.0 [29.7]	101.0 [29.7]	101.0 [29.7]	101.0 [29.7]	101.0 [29.7]	101.0 [29.7]	101.0 [29.7]	101.0 [29.7]	101.0 [29.7]	101.0 [29.7]	101.0 [29.7]	101.0 [29.7]	101.0 [29.7]
	Sens BTU/h [kW]	72.6 [21.3]	64.2 [18.8]	59.5 [17.4]	55.0 [16.1]	55.0 [16.1]	55.0 [16.1]	55.0 [16.1]	55.0 [16.1]	55.0 [16.1]	55.0 [16.1]	55.0 [16.1]	55.0 [16.1]	55.0 [16.1]	55.0 [16.1]	55.0 [16.1]	55.0 [16.1]	55.0 [16.1]	55.0 [16.1]	55.0 [16.1]	55.0 [16.1]
100 [37.8]	Total BTU/h [kW]	108.6 [31.8]	103.3 [30.3]	100.4 [29.4]	97.1 [28.4]	97.1 [28.4]	97.1 [28.4]	97.1 [28.4]	97.1 [28.4]	97.1 [28.4]	97.1 [28.4]	97.1 [28.4]	97.1 [28.4]	97.1 [28.4]	97.1 [28.4]	97.1 [28.4]	97.1 [28.4]	97.1 [28.4]	97.1 [28.4]	97.1 [28.4]	97.1 [28.4]
	Sens BTU/h [kW]	70.4 [20.6]	62.2 [18.2]	57.7 [16.9]	53.2 [15.6]	53.2 [15.6]	53.2 [15.6]	53.2 [15.6]	53.2 [15.6]	53.2 [15.6]	53.2 [15.6]	53.2 [15.6]	53.2 [15.6]	53.2 [15.6]	53.2 [15.6]	53.2 [15.6]	53.2 [15.6]	53.2 [15.6]	53.2 [15.6]	53.2 [15.6]	53.2 [15.6]
105 [40.6]	Total BTU/h [kW]	104.3 [30.6]	99.2 [29.1]	96.4 [28.2]	93.1 [27.2]	93.1 [27.2]	93.1 [27.2]	93.1 [27.2]	93.1 [27.2]	93.1 [27.2]	93.1 [27.2]	93.1 [27.2]	93.1 [27.2]	93.1 [27.2]	93.1 [27.2]	93.1 [27.2]	93.1 [27.2]	93.1 [27.2]	93.1 [27.2]	93.1 [27.2]	93.1 [27.2]
	Sens BTU/h [kW]	68.1 [20.0]	60.2 [17.6]	55.8 [16.4]	51.3 [15.1]	51.3 [15.1]	51.3 [15.1]	51.3 [15.1]	51.3 [15.1]	51.3 [15.1]	51.3 [15.1]	51.3 [15.1]	51.3 [15.1]	51.3 [15.1]	51.3 [15.1]	51.3 [15.1]	51.3 [15.1]	51.3 [15.1]	51.3 [15.1]	51.3 [15.1]	51.3 [15.1]
110 [43.3]	Total BTU/h [kW]	99.9 [29.3]	95.1 [27.9]	92.4 [27.1]	89.1 [26.3]	89.1 [26.3]	89.1 [26.3]	89.1 [26.3]	89.1 [26.3]	89.1 [26.3]	89.1 [26.3]	89.1 [26.3]	89.1 [26.3]	89.1 [26.3]	89.1 [26.3]	89.1 [26.3]	89.1 [26.3]	89.1 [26.3]	89.1 [26.3]	89.1 [26.3]	89.1 [26.3]
	Sens BTU/h [kW]	65.8 [19.3]	58.1 [17.0]	53.9 [15.8]	49.4 [14.5]	49.4 [14.5]	49.4 [14.5]	49.4 [14.5]	49.4 [14.5]	49.4 [14.5]	49.4 [14.5]	49.4 [14.5]	49.4 [14.5]	49.4 [14.5]	49.4 [14.5]	49.4 [14.5]	49.4 [14.5]	49.4 [14.5]	49.4 [14.5]	49.4 [14.5]	49.4 [14.5]
115 [46.1]	Total BTU/h [kW]	95.6 [28.0]	91.0 [26.7]	88.4 [25.9]	85.1 [25.0]	85.1 [25.0]	85.1 [25.0]	85.1 [25.0]	85.1 [25.0]	85.1 [25.0]	85.1 [25.0]	85.1 [25.0]	85.1 [25.0]	85.1 [25.0]	85.1 [25.0]	85.1 [25.0]	85.1 [25.0]	85.1 [25.0]	85.1 [25.0]	85.1 [25.0]	85.1 [25.0]
	Sens BTU/h [kW]	63.4 [18.6]	56.0 [16.4]	51.9 [15.2]	47.4 [14.0]	47.4 [14.0]	47.4 [14.0]	47.4 [14.0]	47.4 [14.0]	47.4 [14.0]	47.4 [14.0]	47.4 [14.0]	47.4 [14.0]	47.4 [14.0]	47.4 [14.0]	47.4 [14.0]	47.4 [14.0]	47.4 [14.0]	47.4 [14.0]	47.4 [14.0]	47.4 [14.0]
120 [48.9]	Total BTU/h [kW]	91.3 [26.7]	86.8 [25.4]	84.4 [24.7]	81.1 [23.9]	81.1 [23.9]	81.1 [23.9]	81.1 [23.9]	81.1 [23.9]	81.1 [23.9]	81.1 [23.9]	81.1 [23.9]	81.1 [23.9]	81.1 [23.9]	81.1 [23.9]	81.1 [23.9]	81.1 [23.9]	81.1 [23.9]	81.1 [23.9]	81.1 [23.9]	81.1 [23.9]
	Sens BTU/h [kW]	61.0 [17.9]	53.9 [15.8]	50.0 [14.6]	45.5 [13.5]	45.5 [13.5]	45.5 [13.5]	45.5 [13.5]	45.5 [13.5]	45.5 [13.5]	45.5 [13.5]	45.5 [13.5]	45.5 [13.5]	45.5 [13.5]	45.5 [13.5]	45.5 [13.5]	45.5 [13.5]	45.5 [13.5]	45.5 [13.5]	45.5 [13.5]	45.5 [13.5]
125 [51.7]	Total BTU/h [kW]	86.9 [25.5]	82.7 [24.2]	80.3 [23.5]	77.0 [22.6]	77.0 [22.6]	77.0 [22.6]	77.0 [22.6]	77.0 [22.6]	77.0 [22.6]	77.0 [22.6]	77.0 [22.6]	77.0 [22.6]	77.0 [22.6]	77.0 [22.6]	77.0 [22.6]	77.0 [22.6]	77.0 [22.6]	77.0 [22.6]	77.0 [22.6]	77.0 [22.6]
	Sens BTU/h [kW]	58.5 [17.1]	51.7 [15.2]	48.0 [14.1]	43.5 [13.0]	43.5 [13.0]	43.5 [13.0]	43.5 [13.0]	43.5 [13.0]	43.5 [13.0]	43.5 [13.0]	43.5 [13.0]	43.5 [13.0]	43.5 [13.0]	43.5 [13.0]	43.5 [13.0]	43.5 [13.0]	43.5 [13.0]	43.5 [13.0]	43.5 [13.0]	43.5 [13.0]

DR — Depression ratio
dbE — Entering air dry bulb
wBE — 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 - DR) x (dbE - 80)].

[] Designates Metric Conversions



Air

Gross Systems Performance Data
RGED Series

COOLING PERFORMANCE DATA — RGEDZT120A

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]			4800 [2265]			3200 [1510]			4800 [2265]			3200 [1510]		
wBE			0.09			0.03			0.09			0.03		
DR ①			0.03			0			0.09			0		
75 [23.9]	Total BTUH [kW]	155.3 [45.5]	147.8 [43.3]	143.8 [42.2]	143.8 [42.2]	143.8 [42.2]	143.8 [42.2]	143.8 [42.2]	147.8 [43.3]	143.8 [42.2]	143.8 [42.2]	143.8 [42.2]	143.8 [42.2]	143.8 [42.2]
	Sens BTUH [kW]	97.3 [28.5]	86.1 [25.2]	80.2 [23.5]	80.2 [23.5]	80.2 [23.5]	80.2 [23.5]	80.2 [23.5]	115.8 [33.9]	115.8 [33.9]	115.8 [33.9]	115.8 [33.9]	115.8 [33.9]	115.8 [33.9]
80 [26.7]	Total BTUH [kW]	150.6 [44.1]	143.4 [42.0]	139.5 [40.9]	139.5 [40.9]	139.5 [40.9]	139.5 [40.9]	139.5 [40.9]	143.4 [42.0]	139.5 [40.9]	139.5 [40.9]	139.5 [40.9]	139.5 [40.9]	139.5 [40.9]
	Sens BTUH [kW]	94.9 [27.8]	84.0 [24.6]	78.2 [22.9]	78.2 [22.9]	78.2 [22.9]	78.2 [22.9]	78.2 [22.9]	113.5 [33.2]	113.5 [33.2]	113.5 [33.2]	113.5 [33.2]	113.5 [33.2]	113.5 [33.2]
85 [29.4]	Total BTUH [kW]	146.0 [42.8]	138.9 [40.7]	135.2 [39.6]	135.2 [39.6]	135.2 [39.6]	135.2 [39.6]	135.2 [39.6]	146.0 [42.8]	138.9 [40.7]	135.2 [39.6]	135.2 [39.6]	135.2 [39.6]	135.2 [39.6]
	Sens BTUH [kW]	92.5 [27.1]	81.8 [24.0]	76.2 [22.3]	76.2 [22.3]	76.2 [22.3]	76.2 [22.3]	76.2 [22.3]	111.0 [32.5]	111.0 [32.5]	111.0 [32.5]	111.0 [32.5]	111.0 [32.5]	111.0 [32.5]
90 [32.2]	Total BTUH [kW]	141.4 [41.4]	134.5 [39.4]	131.0 [38.4]	131.0 [38.4]	131.0 [38.4]	131.0 [38.4]	131.0 [38.4]	141.4 [41.4]	134.5 [39.4]	131.0 [38.4]	131.0 [38.4]	131.0 [38.4]	131.0 [38.4]
	Sens BTUH [kW]	90.1 [26.4]	79.7 [23.3]	74.2 [21.7]	74.2 [21.7]	74.2 [21.7]	74.2 [21.7]	74.2 [21.7]	108.6 [31.8]	108.6 [31.8]	108.6 [31.8]	108.6 [31.8]	108.6 [31.8]	108.6 [31.8]
95 [35]	Total BTUH [kW]	136.8 [40.1]	130.2 [38.1]	126.7 [37.1]	126.7 [37.1]	126.7 [37.1]	126.7 [37.1]	126.7 [37.1]	136.8 [40.1]	130.2 [38.1]	126.7 [37.1]	126.7 [37.1]	126.7 [37.1]	126.7 [37.1]
	Sens BTUH [kW]	87.6 [25.7]	77.5 [22.7]	72.2 [21.1]	72.2 [21.1]	72.2 [21.1]	72.2 [21.1]	72.2 [21.1]	106.1 [31.1]	106.1 [31.1]	106.1 [31.1]	106.1 [31.1]	106.1 [31.1]	106.1 [31.1]
100 [37.8]	Total BTUH [kW]	132.2 [38.7]	125.8 [36.9]	122.4 [35.9]	122.4 [35.9]	122.4 [35.9]	122.4 [35.9]	122.4 [35.9]	132.2 [38.7]	125.8 [36.9]	122.4 [35.9]	122.4 [35.9]	122.4 [35.9]	122.4 [35.9]
	Sens BTUH [kW]	85.1 [24.9]	75.2 [22.0]	70.1 [20.5]	70.1 [20.5]	70.1 [20.5]	70.1 [20.5]	70.1 [20.5]	103.6 [30.3]	103.6 [30.3]	103.6 [30.3]	103.6 [30.3]	103.6 [30.3]	103.6 [30.3]
105 [40.6]	Total BTUH [kW]	127.6 [37.4]	121.4 [35.6]	118.2 [34.6]	118.2 [34.6]	118.2 [34.6]	118.2 [34.6]	118.2 [34.6]	127.6 [37.4]	121.4 [35.6]	118.2 [34.6]	118.2 [34.6]	118.2 [34.6]	118.2 [34.6]
	Sens BTUH [kW]	82.5 [24.2]	73.0 [21.4]	68.0 [19.9]	68.0 [19.9]	68.0 [19.9]	68.0 [19.9]	68.0 [19.9]	101.0 [29.6]	101.0 [29.6]	101.0 [29.6]	101.0 [29.6]	101.0 [29.6]	101.0 [29.6]
110 [43.3]	Total BTUH [kW]	123.0 [36.1]	117.1 [34.3]	114.0 [33.4]	114.0 [33.4]	114.0 [33.4]	114.0 [33.4]	114.0 [33.4]	123.0 [36.1]	117.1 [34.3]	114.0 [33.4]	114.0 [33.4]	114.0 [33.4]	114.0 [33.4]
	Sens BTUH [kW]	79.9 [23.4]	70.6 [20.7]	65.8 [19.3]	65.8 [19.3]	65.8 [19.3]	65.8 [19.3]	65.8 [19.3]	98.4 [28.8]	98.4 [28.8]	98.4 [28.8]	98.4 [28.8]	98.4 [28.8]	98.4 [28.8]
115 [46.1]	Total BTUH [kW]	118.5 [34.7]	112.7 [33.0]	109.7 [32.2]	109.7 [32.2]	109.7 [32.2]	109.7 [32.2]	109.7 [32.2]	118.5 [34.7]	112.7 [33.0]	109.7 [32.2]	109.7 [32.2]	109.7 [32.2]	109.7 [32.2]
	Sens BTUH [kW]	77.2 [22.6]	68.3 [20.0]	63.6 [18.6]	63.6 [18.6]	63.6 [18.6]	63.6 [18.6]	63.6 [18.6]	95.7 [28.1]	95.7 [28.1]	95.7 [28.1]	95.7 [28.1]	95.7 [28.1]	95.7 [28.1]
120 [48.9]	Total BTUH [kW]	113.9 [33.4]	108.4 [31.8]	105.5 [30.9]	105.5 [30.9]	105.5 [30.9]	105.5 [30.9]	105.5 [30.9]	113.9 [33.4]	108.4 [31.8]	105.5 [30.9]	105.5 [30.9]	105.5 [30.9]	105.5 [30.9]
	Sens BTUH [kW]	74.5 [21.8]	65.9 [19.3]	61.4 [18.0]	61.4 [18.0]	61.4 [18.0]	61.4 [18.0]	61.4 [18.0]	93.0 [27.3]	93.0 [27.3]	93.0 [27.3]	93.0 [27.3]	93.0 [27.3]	93.0 [27.3]
125 [51.7]	Total BTUH [kW]	109.4 [32.1]	104.1 [30.5]	101.3 [29.7]	101.3 [29.7]	101.3 [29.7]	101.3 [29.7]	101.3 [29.7]	109.4 [32.1]	104.1 [30.5]	101.3 [29.7]	101.3 [29.7]	101.3 [29.7]	101.3 [29.7]
	Sens BTUH [kW]	71.8 [21.0]	63.5 [18.6]	59.2 [17.3]	59.2 [17.3]	59.2 [17.3]	59.2 [17.3]	59.2 [17.3]	90.3 [26.5]	90.3 [26.5]	90.3 [26.5]	90.3 [26.5]	90.3 [26.5]	90.3 [26.5]
Power			13.1	12.8	12.6	12.6	12.6	12.6	13.1	12.8	12.6	12.6	12.6	12.6

DR —Depression ratio
dbE —Entering air dry bulb
wBE—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 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
OUTDOOR DRY BULB TEMPERATURE °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]	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]	111.5 [32.7]
		Power	10.2	10.0	9.9	10.1	9.9	9.8	10.0	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]	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]	109.8 [32.2]
		Power	10.6	10.4	10.3	10.5	10.4	10.2	10.4	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]	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]	108.0 [31.6]
		Power	11.1	10.9	10.7	11.0	10.8	10.6	10.9	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]	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]	106.2 [31.1]
		Power	11.6	11.4	11.2	11.5	11.3	11.1	11.4	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]	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]	104.3 [30.6]
		Power	12.1	11.9	11.6	12.0	11.8	11.6	11.9	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]	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]	102.4 [30.0]
		Power	12.6	12.4	12.2	12.5	12.3	12.1	12.4	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]	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]	100.5 [29.4]
		Power	13.2	13.0	12.7	13.1	12.9	12.6	13.0	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]	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]	98.6 [28.9]
		Power	13.8	13.5	13.3	13.7	13.5	13.2	13.6	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]	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]	96.6 [28.3]
		Power	14.4	14.2	13.9	14.3	14.1	13.8	14.2	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 $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

[] 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]	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
OUTDOOR DRY BULB TEMPERATURE °F [°C]	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
OUTDOOR DRY BULB TEMPERATURE °F [°C]	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
OUTDOOR DRY BULB TEMPERATURE °F [°C]	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
OUTDOOR DRY BULB TEMPERATURE °F [°C]	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 $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

[] 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]	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
OUTDOOR DRY BULB TEMPERATURE °F [°C]	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
OUTDOOR DRY BULB TEMPERATURE °F [°C]	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)—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
OUTDOOR DRY BULB TEMPERATURE °F [°C]	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
OUTDOOR DRY BULB TEMPERATURE °F [°C]	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

