Commercial Renaissance® Line Packaged Air Conditioners

RACC Series

Cooling Efficiencies up to:
RACCYC 3 to 5 Tons: 12.0 EER2 / 16.2 SEER2
RACCYB 3 to 5 Tons: 10.6 EER2 / 13.4 SEER2
RACCYB 6 Tons: 11.2 EER / 14.8 IEER
Nominal Sizes: 3, 4, 5 & 6 Tons [10.6, 14.0, 17.6 & 21.1 kW]
Cooling Capacities: 34.2k Btu/h to 68.5k Btu/h
Refrigerant Type: R-454B
ASHRAE 90.1 2022 Compliant Models

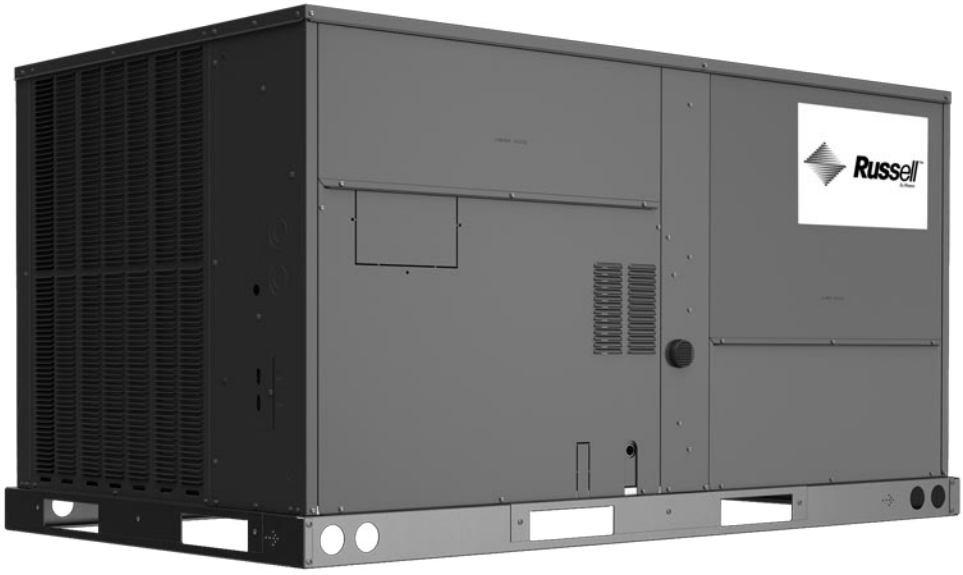
ISO 9001:2015

c UL us LISTED

AHRI CERTIFIED™ www.ahridirectory.org
Unitary Small AC
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI.

AHRI CERTIFIED™ www.ahridirectory.org
Unitary Large AC
AHRI Standard 340/360
Certification applies only when the complete system is listed with AHRI.

TABLE OF CONTENTS



RACC STANDARD FEATURES INCLUDE:

Convenience & Serviceability Features

- Forkable base rails for easy handling and lifting
- Color-coded and labeled wiring
- External, lockable gauge ports
- Field convertible airflow - vertical downflow or horizontal sideflow
- Solid-core liquid line filter drier
- Filter access features hinged access with heavy-duty gasketing, 1/4 turn latches, and flexible-fit filter rack for easy filter size changes, up to MERV8 or MERV13
- Slide-out indoor fan assembly for added service convenience
- Slide-out, internally sloped condensate drain pan with overflow switch, conforms to ASHRAE 62 standards
- Factory-installed refrigerant leak detection system
- Standard Modbus interface

Quality Manufacturing Features

- Factory charged with R-454 refrigerant
- Wired and run tested at the factory
- Powder Paint Finish meets ASTM B117 test requirements. G90 galvanized steel coated on each side.
- SEET tested for reliable performance in a variety of operating conditions
- Foil faced insulation encapsulated throughout entire unit minimizes airborne fibers in the air stream

Performance Features

- Cooling operation up to 125ºF ambient
- Scroll compressors with internal line break overload and high-pressure protection
- MicroChannel evaporator and condenser coil
- High pressure and low pressure/loss of charge protection

FACTORY-INSTALLED OPTIONS:

- Louvered panels
- Hinged access doors
- Low ambient/freeze stat
- Non-powered convenience outlet
- Economizer (Title 24 and ASHRAE 90.1 2022 compliant)
- Supply and return smoke detector
- ElectroFin® E-Coat for MicroChannel Condenser Coil Coating
- ClearControl™ Direct Digital Control (DDC)
- Comfort Alert® Phase-monitor Protection

FIELD-INSTALLED ACCESSORIES:

Accessory	Model Number	Factory Installation Available?
Economizers		
DDC Economizer with Single Enthalpy (Downflow) *MicroMetl Economizer with Honeywell Controller*	RXRD-01MCDBM3	Yes
DDC Economizer with Single Enthalpy (Horizontal) *MicroMetl Economizer with Honeywell Controller*	RXRD-01MCHBM3	No
Non-DDC Economizer with No Controls (Downflow) *MicroMetl Economizer, Belimo Actuator*	RXRD-31MCDAM3	No
Non-DDC Economizer with Single Enthalpy (Downflow) *MicroMetl Economizer with Siemens Controls*	RXRD-11MCDAM3	Yes
Non-DDC Economizer with Single Enthalpy (Downflow) *RRS Economizer with RRS Basic Controller*	RXRD-41MCDAM3	No
Non-DDC Economizer with Single Enthalpy (Downflow) *RRS Economizer with Siemens Controls*	RXRD-51MCDAM3	No
Non-DDC Economizer with Single Enthalpy (Horizontal) *MicroMetl Economizer with Siemens Controls*	RXRD-11MCHAM3	No
Non-DDC Economizer with Single Enthalpy (Horizontal) *RRS Economizer with RRS Basic Controller*	RXRD-41MCHAM3	No
Non-DDC Economizer with Single Enthalpy (Horizontal) *RRS Economizer with Siemens Controls*	RXRD-51MCHAM3	No
Economizer Universal DDC Interface Kit	RXRX-DDC01	Yes[1]

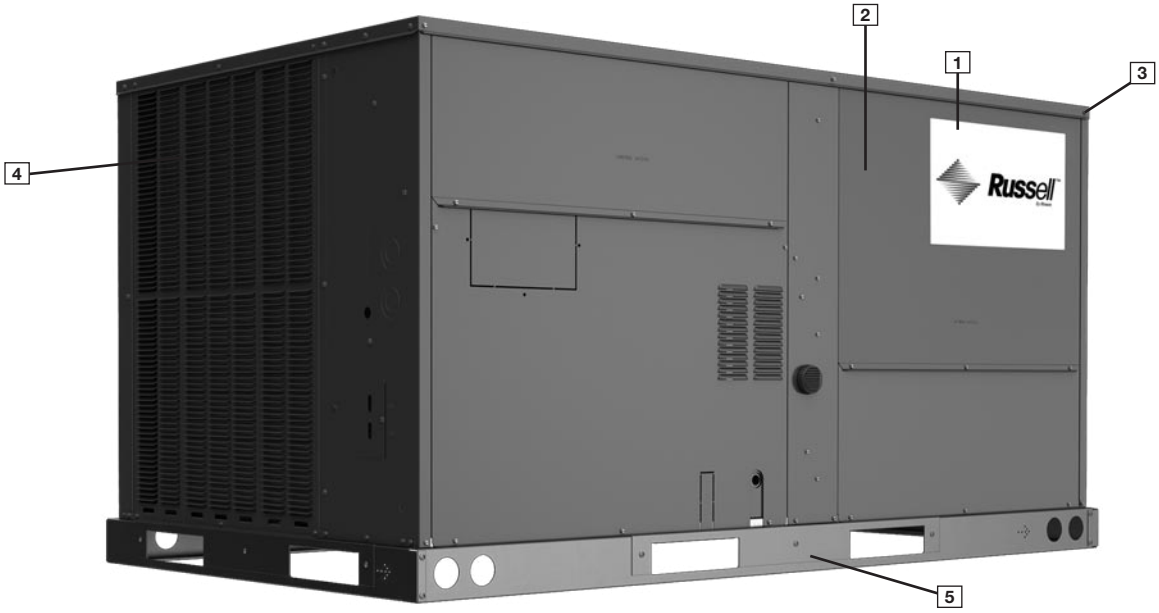
[1]When a factory installed economizer is selected in the unit option codes, this accessory is automatically factory installed if required.

FIELD-INSTALLED ACCESSORIES (CONTINUED):

Accessory	Model Number	Factory Installation Available?
Comfort Alert (1 Phase) DDC	RXRX-AZ03	Yes
Comfort Alert (1 Phase) Non-DDC	RXRX-AZ04	Yes
Comfort Alert (3 Phase) DDC	RXRX-AZ01	Yes
Comfort Alert (3 Phase) Non-DDC	RXRX-AZ02	Yes
Communication Card, BACnet	RXRX-AY01	No
Communication Card, LonWorks	RXRX-AY02	No
Concentric Adapter 3-4 Ton Drop	RXMC-DC01	No
Concentric Adapter 5-6 Ton Drop	RXMC-DC02	No
Concentric Diffuser 3-4 Ton Drop	RXRN-AED1800	No
Concentric Diffuser 5-6 Ton Drop	RXRN-AED2000	No
Concentric Diffuser 3-4 Ton Flush	RXRN-AEF1800	No
Concentric Diffuser 5-6 Ton Flush	RXRN-AEF2000	No
Convenience Outlet, Non-Powered	RXRX-BN01	Yes
Dual Enthalpy Kit DDC (for Honeywell DDC)	RXRX-BV02	No
Dual Enthalpy, Temperature and Humidity Sensor (for RRS Basic Controller)	PD955977	No
Dual Enthalpy, Temperature and Humidity Sensor (for Siemens Controller)	PD555460	No
Electric Heater Kits[2]	RXJJ-DC10JT	Yes
	RXJJ-DC15JT	Yes
	RXJJ-DC20JT	Yes
	RXJJ-DC10CP	Yes
	RXJJ-DC15CP	Yes
	RXJJ-DC20CP	Yes
	RXJJ-DC24CP	Yes
	RXJJ-DC10DNV	Yes
	RXJJ-DC15DNV	Yes
	RXJJ-DC20DNV	Yes
	RXJJ-DC24DNV	Yes
	RXJJ-DC10Y	No
	RXJJ-DC15Y	No
	RXJJ-DC20Y	No
	RXJJ-DC24Y	No
Freeze Stat Kit	RXRX-AM05	Yes
Fresh Air Damper, Manual	RXRF-ACA1	No
Fresh Air Damper, Motorized	RXRF-ACB1	No
Low-Ambient Control Kit	RXRZ-A04	Yes

[2]10kW options not available on 6 Ton models

Accessory	Model Number	Factory Installation Available?
MERV 8 Filter	RXMF-M08A21616	No
MERV 13 Filter	RXMF-M13A21616	No
Outdoor Coil Louver Kit	RXRX-ADD04C	Yes
Power Exhaust (230V) Vertical *MicroMetl*	RXRX-CCF02C	No
Power Exhaust (460V) Vertical *MicroMetl*	RXRX-CCF02D	No
Power Exhaust (230V) Horizontal *MicroMetl*	RXRX-CCF03C	No
Power Exhaust (460V) Horizontal *MicroMetl*	RXRX-CCF03D	No
Power Exhaust (230V) Vertical *RRS*	RXRX-RCF02C	No
Power Exhaust (460V) Vertical *RRS*	RXRX-RCF02D	No
Power Exhaust (575V) Vertical *RRS*	RXRX-RCF02Y	No
Power Exhaust (230V) Horizontal *RRS*	RXRX-RCF03C	No
Power Exhaust (460V) Horizontal *RRS*	RXRX-RCF03D	No
Power Exhaust (575V) Horizontal *RRS*	RXRX-RCF03Y	No
Roofcurb, 14"	RXKG-DCC14	No
Roofcurb, 14" Welded	RXKG-DC14	No
Roofcurb, 24"	RXKG-DCC24	No
Roofcurb, 24" Welded	RXKG-DC24	No
Roofcurb Adapter	RXRX-DCCAE	No
Sensor, Carbon Dioxide (Wall Mount)	RXRX-AR02	No
Sensor, Room Humidity	RHC-ZNS4	No
Sensor, Room Temperature and Relative Humidity	RHC-ZNS5	No
Single Point Wiring Kits	RXJX-AJ0601 (Single Phase)	No
	RXJX-AZ0601 (Three Phase)	No
Smoke Detector, Return (Field kit)	RXRX-BS01	No
Smoke Detector, Return/Supply (Field kit)	RXRX-BS02	No
Unfused Service Disconnect	RXRX-BP01	Yes
UV-C Kit 208V/230V	RXRX-UVC22C	No
UV-C Transformer 460V/575V	RXRX-UVCTC	No



Cabinet and Foundation

Outwardly, the large Russell® By Rheem Commercial 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 Russell By 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.

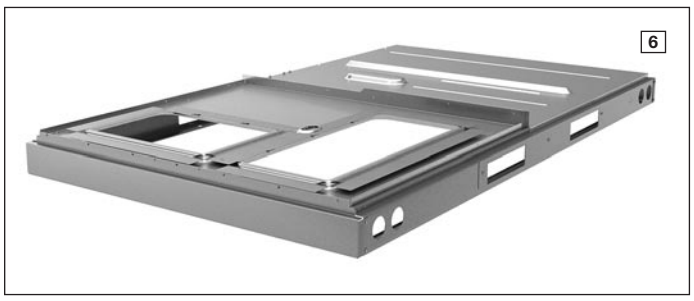
Anything built to last must start with the right foundation. Following that model, the foundation is comprised of 14-gauge, commercial-grade, full perimeter base rails **(5)** that integrate fork slots and rigging holes to save set-up time on the job site.

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.

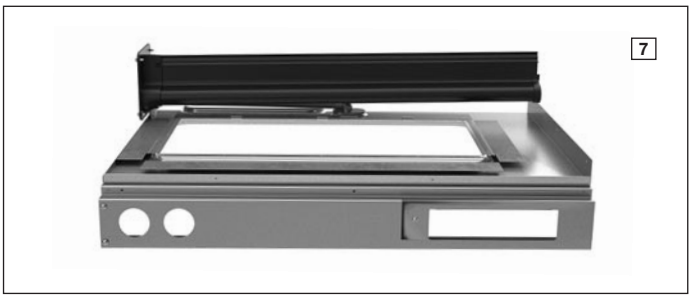
Base Pan

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. 60335-2-40, AHRI 210/240 (3-5 ton) or AHRI 340/360 (6 ton), as well as other Russell By Rheem-required reliability tests. Russell By Rheem adheres to stringent ISO 9001 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 Russell By Rheem packaged unit arrives at the job, it is ready to go with a factory charge and quality checks.

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)**.

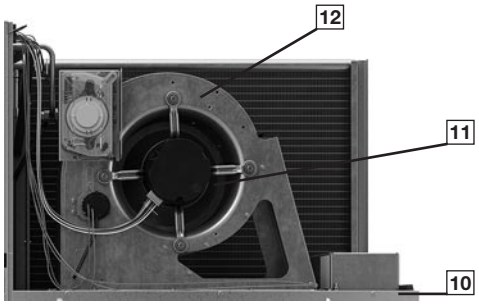
Filter Rack

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

Blower Assembly

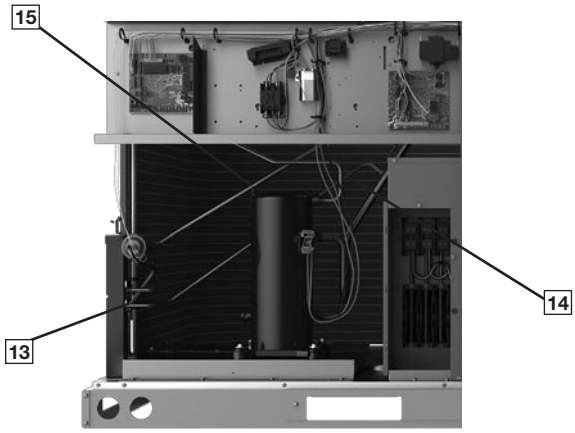
Removing three screws provides full access to the blower compartment. Inside, the Qwik-Slide Blower Assembly **(10)** is incredibly easy to access and remove. This makes servicing internal components such as blower motor, TXV, and MicroChannel coil much easier. The entire assembly slides out by removing the 3/8" screws from the blower retention bracket.

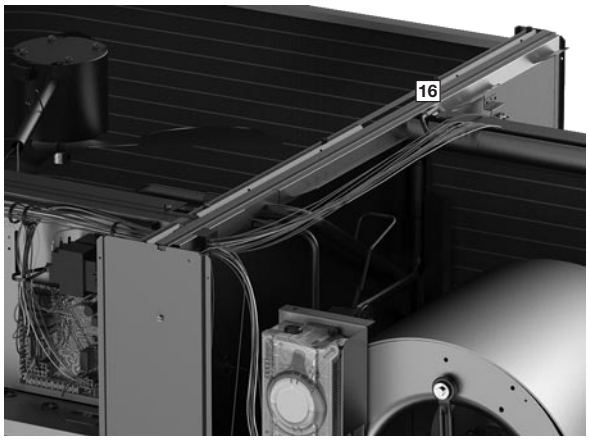
Where the demands for the job require high static, Russell By Rheem offers drives **(11)** that deliver nominal airflow up to 1.5" of static. By referring to the airflow performance tables listed in the installation instructions, proper static pressure and CFM requirements can be dialed in. The scroll housing **(12)** and blower scroll provide quiet and efficient airflow.



High and Low Pressure Switches & Freeze Stat

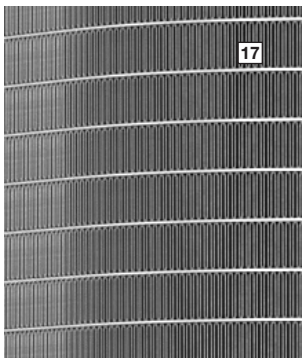
High pressure **(13)** and low pressure **(14)** switches are standard. They are located in the outdoor section along with the low-ambient control **(15)**. The optional Freeze Stat **(16)** (standard on models with ClearControl), is clipped onto the suction line in the blower compartment. The low ambient 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.





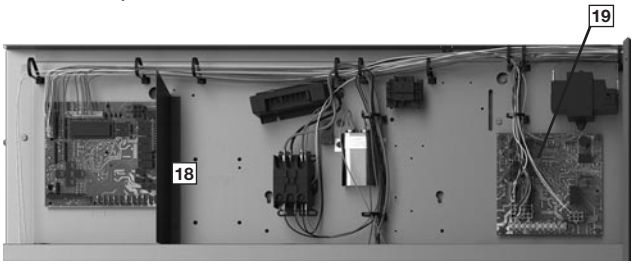
MicroChannel Evaporator & TXV

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.



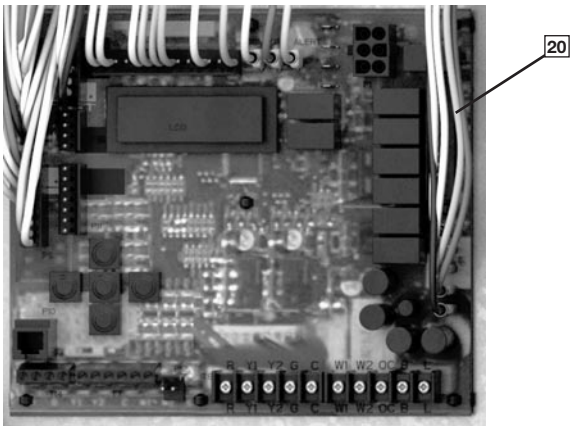
Control Box

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.



ClearControl DDC System

The optional ClearControl 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 RACC Cooling only with the RTU-C is specifically designed to be applied in four distinct applications:

1. **BACnet Communication —** The RACC 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.

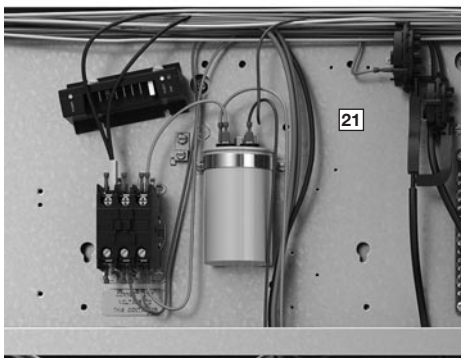
2. **LonWorks Communication —** The RACC is compatible with a third party building management system that supports the LonMark Space Comfort Controller (SCC) functional profile or LonMark Discharge Air Controller (DAC) functional profile. This is accomplished with a field-installed LonMark communication 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 RACC 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 RACC 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.

Comfort Alert

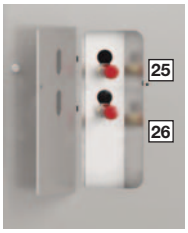
A factory or field installed Comfort Alert **(21)** module is available for power phase-monitoring protection and additional compressor diagnostics. The alarms can be displayed on the RTU-C display, through the (BAS) network, or connected to the “L-Terminal” of a thermostat for notification.



Convenience Outlet, Disconnect, & Circuit Breaker

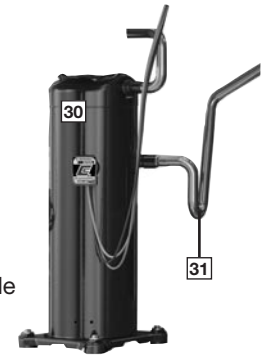
The convenience outlet option comes non-powered from the factory **(**23**)**. Low and high voltage can enter from the side or through the base. Low-voltage connections are made through the low-voltage terminal strip. For ease of access, the U.L.-required low voltage barrier can be temporarily removed 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



The unit's refrigerant gauge ports are mounted externally and include several features that enhance accessibility and serviceability. Accessed through a large, lockable door **(**25**)** so technicians have plenty of space to connect to the ports if needed, the external position allows for an accurate diagnostic of system operation without removing access panels which can affect unit performance. They are permanently identified by embossed lettering that identifies the high pressure connection and low pressure connection. The red plastic caps on the refrigerant ports **(**26**)** indicate that this unit is charged with A2L refrigerant.

Compressor

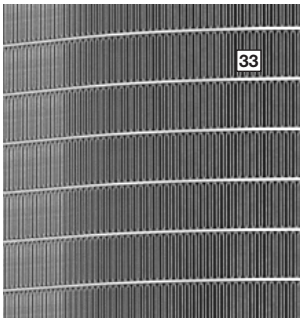


The compressor compartment houses the heartbeat of the unit. The scroll compressor **(**30**)** is known for its long life and for reliable, quiet, and efficient operation. The suction and discharge lines are designed with shock loops **(**31**)** to absorb the strain and stress that the starting torque, steady state operation, and shut-down cycle impose on the refrigerant tubing. 3-5 ton YB units include one single-stage compressor, and 6 ton YB units and 3-5 ton YC units include one two-stage compressor.

Condenser Fans

The condenser fan motor **(**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 economizer control has a minimum position set point, an outdoor-air set point, a mixed-air set point, and a CO_2 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 CO_2 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 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.

Refrigerant Leak Detection

In the event of a detected refrigerant leak, the refrigerant leak detection sensor **(**37**)** will trigger the mitigation procedure that shuts off the compressor(s) and turns on the indoor blower motor.

The sensor is installed on the bracket facing the filter rack. From the outside of the unit, the sensor is not visible.

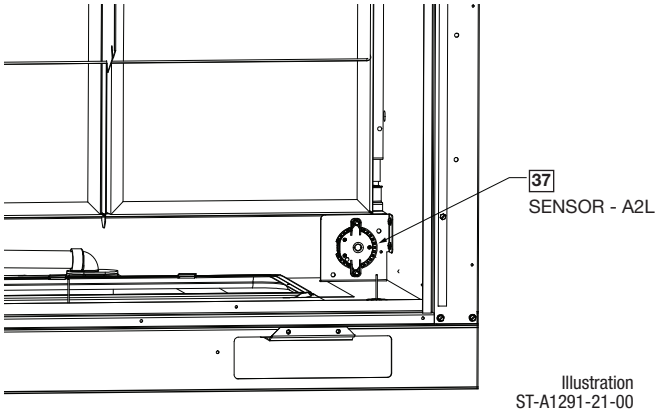


Illustration
ST-A1291-21-00

HUMIDIDRY DEHUMIDIFICATION SYSTEM

With the factory-installed dehumidification option, in addition to a thermostat or space temperature sensor that is normally present, an indoor relative humidity sensor is installed in the occupied space and connected to the Rooftop Unit Controller (RTU-C) which then controls the capacity of the cooling coil to remove moisture from the supply air and maintain space relative humidity below an adjustable limit visible on the RTU-C display. The default value is the ASHRAE recommended limit of 60% RH. With this option, a refrigerant reheat coil is installed downstream from the evaporator coil. When the space humidity is too high and reheat is energized, this coil uses some of the heat that is normally rejected to the outside by the condenser coil to instead reheat the cold air from the evaporator coil just enough to avoid overcooling and providing “neutral air” to the occupied space. 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.

Because the demand for dehumidification can be different from the cooling demand, the unit will first satisfy the demand for cooling and then if the space humidity is still too high, dehumidification mode is energized. When in dehumidification mode, the supply air leaving the unit will be near the entering air temperature, but at a much lower humidity. The unit will exit the dehumidification mode when the humidity set point is satisfied; or if the load is increased, it will return to normal cooling mode. Reheat is not available during the gas-heating mode.

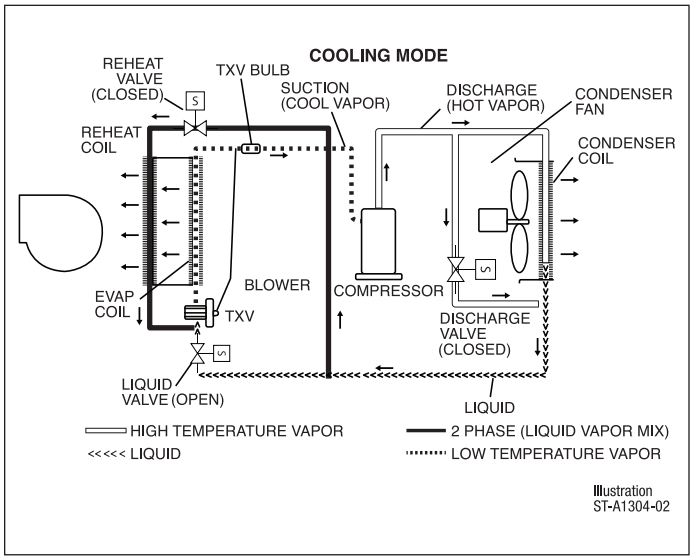


Figure 1 shows the refrigerant path during the normal cooling mode. The liquid refrigerant leaves the TXV with the sudden pressure drop causing the liquid to expand to a vapor and absorbing the heat from the supply air going through the evaporator coil. The refrigerant vapor then travels to the compressor 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.

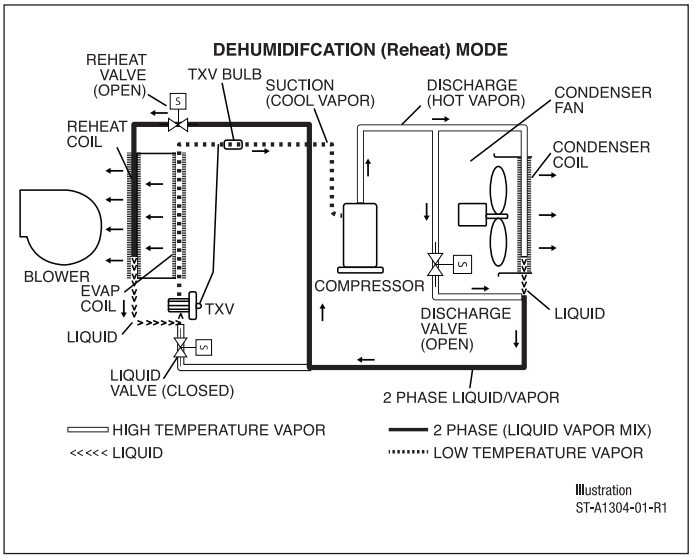


Figure 2 shows the refrigerant path during the reheat mode. When the reheat cycle is energized by the RTU-C, the reheat solenoid valve, upstream of the reheat coil opens. The liquid solenoid valve ahead of the TXV, closes. The discharge solenoid valve, in the compressor discharge line, opens. The liquid 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 outdoor. 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	AC	C	Y	B	036	A	C	T	10		2	A	A	***		
1	23	4	5	6	789	10	11	12	13	14	15	16	17	18	19	20

1—Brand
R = Russell By Rheem

2, 3—Unit Type
AC = Packaged AC

4—Cabinet Type
C = Small Commercial

5—Refrigerant
Y = R-454B

6—Efficiency Level
B = Standard Efficiency
C = High Efficiency

7, 8, 9—Capacity
036 = 3 Ton
048 = 4 Ton
060 = 5 Ton
072 = 6 Ton[1]

10—Major Series
A = 1st Design

11—Voltage
J = 208-230 V, 1 PH, 60 Hz[2]
C = 208-230 V, 3 PH, 60 Hz
D = 460 V, 3 PH, 60 Hz
Y = 575V, 3 PH, 60 Hz[3]

12—Drive
T = Direct Drive Standard Static Constant Torque
U = Direct Drive High Static Constant Torque[4]

13, 14—Heat Capacity
00 = No Heat
10 = 10 kW[6]
15 = 15 kW
20 = 20 kW
24 = 24 kW[7]

15—Heat Configuration
0 = No stages
1 = 1-stage
2 = 2-stage

16—Control
A = CoreCommand™ (Non-Communicating)
B = CoreCommand & Comfort Alert[5]
C = ClearControl™ (DDC) & Phase Monitor[5]
D = ClearControl (DDC) & Comfort Alert[5]

17—Minor Series
A = 1st Design

18, 19, 20—Option Code
AA0

NOTES:

1. 6 ton units are only available with Standard Efficiency
2. J voltage is not available for 24 kW heat capacity or on 6 ton models
3. Y voltage is not available on HumidiDry® models or YC models
4. U drive is not available with J voltage
5. Y Voltage is not available with this Control Option
6. 10 kW electric heat is not available with 6 ton models
7. 24 kW electric heat is not available with 3-5 ton models

FACTORY-INSTALLED OPTION CODES FOR RACC (3-6 TON)

18	19	20
LV = Louver protection	LF = Low Ambient / Freeze Stat	EC = Downflow Economizer
RH[1] = HumidiDry/HGRH (Hot Gas Reheat)	NP = Non-powered Convenience Outlet	SS = Supply Smoke Detector
HA = Hinged Access		RS = Return Smoke Detector
CC = Coil Coating		

OPTION CODE CHARACTER HIGHLIGHTED BELOW

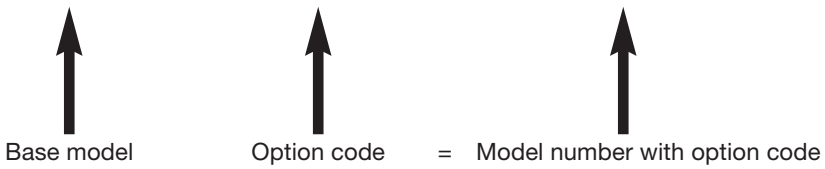
A	None				**A**	None		**0**	None		
B	LV				**B**	LF		**1**	EC		
C	HA				**C**	NP		**2**	RS		
D	LV	HA			**D**	LF	NP	**3**	EC	RS	
E	LV	CC						**4**	SS	RS	
F	LV	HA	CC					**5**	EC	SS	RS
N	RH										
P	LV	RH									
Q	RH	HA									
R	LV	RH	CC								
S	LV	RH	HA								
T	LV	RH	HA	CC							

[1]RH Models with DDC Controls must include Low Ambient/Freeze Stat (LF)

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: RACCYB036ACT000AA EF3 = RACCYB036ACT000AAEF3



To select an RACC 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—	230 V – 3 Phase – 60 Hz
Total Cooling Capacity—	47,000 Btu/h [13.8 kW]
Sensible Cooling Capacity—	36,000 Btu/h [10.6 kW]
Heating Capacity—	29,300 Btu/h [10 kW]
*Condenser Entering Air—	95°F [35.0°C] DB
*Evaporator Mixed Air Entering—	67°F [19.4°C] WB
	78°F [25.6°C] DB
*Indoor Air Flow (vertical)—	1600 CFM [755 L/s]
*External Static Pressure—	0.6 in. WG [.15 kPa]

2. SELECT UNIT TO MEET COOLING REQUIREMENTS.

Since total cooling is within range of a nominal 4-ton unit, use the cooling performance table at 95°F DB condenser inlet air. Interpolate between 1730 CFM [816 L/s] and 1400 CFM [660 L/s] to determine total and sensible capacity and Depression Ratio for inlet air at 1600CFM [755 L/s] indoor airflow (table basis)

Interpolation Formula:

$$kBtu/h_1 + \left[(CFM - CFM_1) \times \left(\frac{kBtu/h_2 - kBtu/h_1}{CFM_2 - CFM_1} \right) \right] = kBtu/h$$

Total Cooling Capacity:

$$46{,}800 + \left[(1{,}600 - 1{,}730) \times \left(\frac{45{,}200 - 46{,}800}{1{,}400 - 1{,}730} \right) \right] = 46{,}170 \text{ Btu/h}$$

Total Cooling Capacity = 46,800 Btu/h [13.5 kW]
Sensible Cooling Capacity = 33,7400 Btu/h [9.9 kW]
DR = 0.2

When the entering dry bulb temperature (dbE) is not 80°F [26.7°C], the sensible capacity needs to be adjusted. Note: total capacity is unaffected

Sensible Capacity Depression Formula:

$Cap_{sensible}$ + [1.10 x CFM x (1 – DR) x (dbE – 80)]

= 33,740 + [1.10 x 1,600 x (1 – 0.2) x (78 – 80)]
Sensible Cooling Capacity = 30,924 Btu/h [9.1 kW]

3. DETERMINE BLOWER SPEED AND BHP TO MEET SYSTEM DESIGN.

Total ESP (external static pressure) per the spec of 0.6 in WG [.15 kPa] includes the system duct and grilles. Add from the table “Component Air Resistance,” 0.13 in. WG [0.04 kPa] for wet coil. Using the “Airflow Performance Table”, at the specified 1,600 CFM and 0.7 in. WG [0.17 kPa] ESP, determine blower wattage.

CFM = 1564
Watts = 440
Tap = 5

3. CALCULATE INDOOR BLOWER BTU/H HEAT EFFECT FROM MOTOR BHP IN STEP 3.

Assuming an average of 85% motor efficiency, determine the amount of heat generated by the blower motor at the specified CFM and ESP by dividing the watts used by the motor efficiency and solving for the difference. Convert this value from watts to Btu/h, multiplying by 3.41 Btu/h/Watt

Watts = 440
Avg. Motor Efficiency = 85%

$$\text{Indoor Blower Motor Heat} = \left[\left(\frac{\text{Watts}}{0.85} \right) - \text{Watts} \right] \times 3.41$$

= [(440/0.85)–440] x 3.41 = 77.6 Btu/h [0.02 kW]

5. CALCULATE THE NET COOLING CAPACITIES

Net cooling capacities can be calculated by subtracting the motor heat from the gross cooling capacities.

Net Total Capacity = Gross Total Capacity – Indoor Blower Motor Heat

= 46,170 – 77 = 46,093 Btu/h [13.5 kW]

Net Sensible Capacity = Gross Sensible Capacity – Indoor Blower Motor Heat

= 30,924 – 77 = 30,847 Btu/h [9.0 kW]

6. SELECT UNIT HEATING CAPACITY

From “Heater Kit” Table, select kW to meet heating capacity requirement; multiply kW by 3412 to convert to Btu/h.

Use 10 kW Heater Kit

Heater Kit Model:	Heater Kit Capacity:
RXJJ-DC10CP	34,120 Btu/h [10 kW]

Add Indoor Blower Motor Heat (step 4) to Heater Kit Capacity to get net total heating capacity:

34,120 + 77 = 34,197 Btu/h [10.0 kW]

7. CHOOSE MODEL RACCYB048ACT10

[ ] Designates Metric Conversions

GENERAL DATA—RACCYB MODELS—3-6 TON

Model RACCYB Series	036ACT 036ADT 036AJT	036ACU	036ADU	036AYT	036AYU
Cooling Performance[A]					**CONTINUED ⟶**
Cooling Capacity Btu/h [kW]	36,000 [10.55]	36,000 [10.55]	36,000 [10.55]	36,000 [10.55]	36,000 [10.55]
EER2/SEER2[B]	10.6/13.4	10.6/13.4	10.6/13.4	10.6/13.4	10.6/13.4
Nominal CFM/AHRI Rated CFM [L/s]	1,200/1,175 [566/555]	1,200/1,175 [566/555]	1,200/1,175 [566/555]	1,200/1,175 [566/555]	1,200/1,175 [566/555]
AHRI Net Cooling Capacity Btu/h [kW]	34,200 [10.02]	34,200 [10.02]	34,200 [10.02]	34,200 [10.02]	34,200 [10.02]
Net Sensible Capacity Btu/h [kW]	25,600 [7.5]	25,600 [7.5]	25,600 [7.5]	25,600 [7.5]	25,600 [7.5]
Net Latent Capacity Btu/h [kW]	8,600 [2.52]	8,600 [2.52]	8,600 [2.52]	8,600 [2.52]	8,600 [2.52]
Net System Power kW	2.7	2.7	2.7	2.7	2.7
Compressor					
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[C]	78	78	78	78	78
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.71 [18]	0.71 [18]	0.71 [18]	0.71 [18]	0.71 [18]
Face Area sq. ft. [sq. m]	16.46 [1.53]	16.46 [1.53]	16.46 [1.53]	16.46 [1.53]	16.46 [1.53]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	7.48 [0.69]	7.48 [0.69]	7.48 [0.69]	7.48 [0.69]	7.48 [0.69]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	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]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	4,250 [2,006]	4,250 [2,006]	4,250 [2,006]	4,250 [2,006]	4,250 [2,006]
No. Motors at HP	1 at 1/5	1 at 1/5	1 at 1/5	1 at 1/5	1 at 1/5
Motor RPM	850	850	850	850	850
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/11x11 [279x279]	1/11x11 [279x279]	1/11x11 [279x279]	1/11x11 [279x279]	1/11x11 [279x279]
Drive Type	Direct	Direct	Direct	Direct	Direct
No. Speeds	Multiple	Multiple	Multiple	Multiple	Multiple
No. Motors	1	1	1	1	1
Motor HP	3/4	1-1/2	1	3/4	1-1/2
Motor RPM	1,050	1,050	1,050	1,050	1,050
Motor Frame Size	48	48	48	48	48
Filter - Type	Disposable	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]
Refrigerant Charge Oz. [g]					
Standard Models	72 [2,041]	72 [2,041]	72 [2,041]	72 [2,041]	72 [2,041]
Reheat Models	101 [2,860]	101 [2,860]	101 [2,860]	101 [2,860]	101 [2,860]
Weights					
Net Weight lbs. [kg]	521 [236]	527 [239]	527 [239]	571 [259]	577 [262]
Ship Weight lbs. [kg]	559 [254]	565 [256]	565 [256]	609 [276]	615 [279]

See Page 22 for Notes.

[ ] Designates Metric Conversions

GENERAL DATA—RACCYB MODELS—3-6 TON

Model RACCYB Series	048ACT 048ADT 048AJT	048ACU	048ADU	048AYT	048AYU
Cooling Performance[A]					**CONTINUED →**
Cooling Capacity Btu/h [kW]	48,000 [14.07]	48,000 [14.07]	48,000 [14.07]	48,000 [14.07]	48,000 [14.07]
EER2/SEER2[B]	10.6/13.4	10.6/13.4	10.6/13.4	10.6/13.4	10.6/13.4
Nominal CFM/AHRI Rated CFM [L/s]	1,600/1,570 [755/741]	1,600/1,570 [755/741]	1,600/1,570 [755/741]	1,600/1,570 [755/741]	1,600/1,570 [755/741]
AHRI Net Cooling Capacity Btu/h [kW]	45,500 [13.33]	45,500 [13.33]	45,500 [13.33]	45,500 [13.33]	45,500 [13.33]
Net Sensible Capacity Btu/h [kW]	34,200 [10.02]	34,200 [10.02]	34,200 [10.02]	34,200 [10.02]	34,200 [10.02]
Net Latent Capacity Btu/h [kW]	11,300 [3.31]	11,300 [3.31]	11,300 [3.31]	11,300 [3.31]	11,300 [3.31]
Net System Power kW	3.8	3.8	3.8	3.8	3.8
Compressor					
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[C]	85.3	85.3	85.3	85.3	85.3
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.71 [18]	0.71 [18]	0.71 [18]	0.71 [18]	0.71 [18]
Face Area sq. ft. [sq. m]	16.46 [1.53]	16.46 [1.53]	16.46 [1.53]	16.46 [1.53]	16.46 [1.53]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	8.41 [0.78]	8.41 [0.78]	8.41 [0.78]	8.41 [0.78]	8.41 [0.78]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	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]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	5,900 [2,784]	5,900 [2,784]	5,900 [2,784]	5,900 [2,784]	5,900 [2,784]
No. Motors at HP	1 at 1/2 HP	1 at 1/2 HP	1 at 1/2 HP	1 at 1/2 HP	1 at 1/2 HP
Motor RPM	1,075	1,075	1,075	1,075	1,075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/11x11 [279x279]	1/11x11 [279x279]	1/11x11 [279x279]	1/11x11 [279x279]	1/11x11 [279x279]
Drive Type	Direct	Direct	Direct	Direct	Direct
No. Speeds	Multiple	Multiple	Multiple	Multiple	Multiple
No. Motors	1	1	1	1	1
Motor HP	3/4	1-1/2	1	3/4	1-1/2
Motor RPM	1,050	1,050	1,050	1,050	1,050
Motor Frame Size	48	48	48	48	48
Filter - Type	Disposable	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]
Refrigerant Charge Oz. [g]					
Standard Models	67 [1,899]	67 [1,899]	67 [1,899]	67 [1,899]	67 [1,899]
Reheat Models	110 [3,120]	110 [3,120]	110 [3,120]	110 [3,120]	110 [3,120]
Weights					
Net Weight lbs. [kg]	548 [249]	554 [251]	554 [251]	598 [271]	604 [274]
Ship Weight lbs. [kg]	586 [266]	592 [269]	592 [269]	636 [288]	642 [291]

See Page 22 for Notes.

[ ] Designates Metric Conversions

GENERAL DATA—RACCYB MODELS—3-6 TON

Model RACCYB Series	060ACT 060ADT 060AJT	060ACU	060ADU	060AYT	060AYU
Cooling Performance[A]					CONTINUED →
Cooling Capacity Btu/h [kW]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
EER2/SEER2[B]	10.6/13.4	10.6/13.4	10.6/13.4	10.6/13.4	10.6/13.4
Nominal CFM/AHRI Rated CFM [L/s]	2,000/1,825 [944/861]	2,000/1,825 [944/861]	2,000/1,825 [944/861]	2,000/1,825 [944/861]	2,000/1,825 [944/861]
AHRI Net Cooling Capacity Btu/h [kW]	57,000 [16.71]	57,000 [16.71]	57,000 [16.71]	57,000 [16.71]	57,000 [16.71]
Net Sensible Capacity Btu/h [kW]	43,000 [12.6]	43,000 [12.6]	43,000 [12.6]	43,000 [12.6]	43,000 [12.6]
Net Latent Capacity Btu/h [kW]	14,000 [4.1]	14,000 [4.1]	14,000 [4.1]	14,000 [4.1]	14,000 [4.1]
Net System Power kW	5.0	5.0	5.0	5.0	5.0
Compressor					
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[C]	86	86	86	86	86
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.63 [16]	0.63 [16]	0.63 [16]	0.63 [16]	0.63 [16]
Face Area sq. ft. [sq. m]	16.46 [1.53]	16.46 [1.53]	16.46 [1.53]	16.46 [1.53]	16.66 [1.55]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	8.41 [0.78]	8.41 [0.78]	8.41 [0.78]	8.41 [0.78]	8.41 [0.78]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	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]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	5,900 [2,784]	5,900 [2,784]	5,900 [2,784]	5,900 [2,784]	5,900 [2,784]
No. Motors at HP	1 at 1/2	1 at 1/2	1 at 1/2	1 at 1/2	1 at 1/2 HP
Motor RPM	1,075	1,075	1,075	1,075	1,075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/11x11 [279x279]	1/11x11 [279x279]	1/11x11 [279x279]	1/11x11 [279x279]	1/11x11 [279x279]
Drive Type	Direct	Direct	Direct	Direct	Direct
No. Speeds	Multiple	Multiple	Multiple	Multiple	Multiple
No. Motors	1	1	1	1	1
Motor HP	1	1-1/2	1-1/5	1	1-1/2
Motor RPM	1,050	1,050	1,050	1,050	1,050
Motor Frame Size	48	48	48	48	48
Filter - Type	Disposable	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]
Refrigerant Charge Oz. [g]					
Standard Models	80 [2,268]	80 [2,268]	80 [2,268]	80 [2,268]	80 [2,268]
Reheat Models	105 [2,980]	105 [2,980]	105 [2,980]	105 [2,980]	105 [2,980]
Weights					
Net Weight lbs. [kg]	551 [250]	557 [253]	557 [253]	601 [273]	607 [275]
Ship Weight lbs. [kg]	589 [267]	595 [270]	595 [270]	639 [290]	645 [293]

See Page 22 for Notes.

[ ] Designates Metric Conversions

GENERAL DATA—RACCYB MODELS—3-6 TON

Model RACCYB Series	072ACT 072ADT	072ACU 072ADU	072ADU	072AYT	072AYU
Cooling Performance[A]					CONTINUED ⟶
Cooling Capacity Btu/h [kW]	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]
EER/IEER[D]	11.2/14.8	11.2/14.8	11.2/14.8	11.2/14.8	11.2/14.8
Nominal CFM/AHRI Rated CFM [L/s]	2,400/2,400 [1,133/1,133]	2,400/2,400 [1,133/1,133]	2,400/2,400 [1,133/1,133]	2,400/2,400 [1,133/1,133]	2,400/2,400 [1,133/1,133]
AHRI Net Cooling Capacity Btu/h [kW]	68,500 [20.08]	68,500 [20.08]	68,500 [20.08]	68,500 [20.08]	68,500 [20.08]
Net Sensible Capacity Btu/h [kW]	51,500 [15.09]	51,500 [15.09]	51,500 [15.09]	51,500 [15.09]	51,500 [15.09]
Net Latent Capacity Btu/h [kW]	17,000 [4.98]	17,000 [4.98]	17,000 [4.98]	17,000 [4.98]	17,000 [4.98]
Net System Power kW	6.2	6.2	6.2	6.2	6.2
Compressor					
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)[C]	85	85	85	85	85
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.71 [18]	0.71 [18]	0.71 [18]	0.71 [18]	0.71 [18]
Face Area sq. ft. [sq. m]	16.46 [1.53]	16.46 [1.53]	16.46 [1.53]	16.46 [1.53]	16.46 [1.53]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	8.41 [0.78]	8.41 [0.78]	8.41 [0.78]	8.41 [0.78]	8.41 [0.78]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	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]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	5,900 [2,784]	5,900 [2,784]	5,900 [2,784]	5,900 [2,784]	5,900 [2,784]
No. Motors at HP	1 at 3/4	1 at 3/4	1 at 3/4	1 at 3/4	1 at 3/4
Motor RPM	1,100	1,100	1,100	1,100	1,100
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/11x11 [279x279]	1/11x11 [279x279]	1/11x11 [279x279]	1/11x11 [279x279]	1/11x11 [279x279]
Drive Type	Direct	Direct	Direct	Direct	Direct
No. Speeds	Multiple	Multiple	Multiple	Multiple	Multiple
No. Motors	1	1	1	1	1
Motor HP	1-1/5	1-1/5	1-1/5	1-1/5	1-1/5
Motor RPM	1,300	1,300	1,300	1,300	1,300
Motor Frame Size	48	48	48	48	48
Filter - Type	Disposable	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]
Refrigerant Charge Oz. [g]					
Standard Models	85 [2,410]	85 [2,410]	85 [2,410]	85 [2,410]	85 [2,410]
Reheat Models	123 [3,490]	123 [3,490]	123 [3,490]	123 [3,490]	123 [3,490]
Weights					
Net Weight lbs. [kg]	557 [253]	557 [253]	557 [253]	607 [275]	607 [275]
Ship Weight lbs. [kg]	595 [270]	595 [270]	595 [270]	645 [293]	645 [293]

See Page 22 for Notes.

[ ] Designates Metric Conversions

GENERAL DATA—RACCYC MODELS—3-5 TON

Model RACCYC Series	036AJT	036ACT	036ACU	036ADT	036ADU
Cooling Performance[A]					CONTINUED →
Gross Cooling Capacity Btu/h [kW]	36,000 [10.55]	36,000 [10.55]	36,000 [10.55]	36,000 [10.55]	36,000 [10.55]
EER2/SEER2[B]	12/16.2	12/16.2	12/16.2	12/16.2	12/16.2
Nominal CFM/ AHRI Rated CFM [L/s]	1,200/1,055 [566/498]	1,200/1,055 [566/498]	1,200/1,055 [566/498]	1,200/1,055 [566/498]	1,200/1,055 [566/498]
AHRI Net Cooling Capacity Btu/h [kW]	34,200 [10.02]	34,200 [10.02]	34,200 [10.02]	34,200 [10.02]	34,200 [10.02]
Net Sensible Capacity Btu/h [kW]	25,600 [7.5]	25,600 [7.5]	25,600 [7.5]	25,600 [7.5]	25,600 [7.5]
Net Latent Capacity Btu/h [kW]	8,600 [2.52]	8,600 [2.52]	8,600 [2.52]	8,600 [2.52]	8,600 [2.52]
Net System Power [kW]	3.23	3.23	3.23	3.23	3.23
Compressor					
No./Stage/Type	1/2/Scroll	1/2/Scroll	1/2/Scroll	1/2/Scroll	1/2/Scroll
Outdoor Sound Rating (dB)[C]	79	79	79	79	79
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	0.71 [18]	0.71 [18]	0.71 [18]	0.71 [18]	0.71 [18]
Face Area sq. ft. [sq. m]	16.72 [1.55]	16.72 [1.55]	16.72 [1.55]	16.72 [1.55]	16.72 [1.55]
Rows / FPI [FPcm]	1/23 [9]	1/23 [9]	1/23 [9]	1/23 [9]	1/23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Rifled: Tube Size OD or MicroChannel: Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	7.49 [0.69]	7.49 [0.69]	7.49 [0.69]	7.49 [0.69]	7.49 [0.69]
Rows / FPI [FPcm]	1/20 [8]	1/20 [8]	1/20 [8]	1/20 [8]	1/20 [8]
Refrigerant Control	TX Valves	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]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]
Drive Type/No. Speeds	Direct/2	Direct/2	Direct/2	Direct/2	Direct/2
CFM [L/s]	4,850 [2,289]	4,850 [2,289]	4,850 [2,289]	4,850 [2,289]	4,850 [2,289]
No. Motors at HP	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP
Motor RPM Low Stage / High Stage	800/440	800/440	800/440	800/440	800/440
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/5.6 [142.2]	1/5.6 [142.2]	1/5.6 [142.2]	1/5.6 [142.2]	1/5.6 [142.2]
Drive Type	Direct	Direct	Direct	Direct	Direct
No. Speeds	Multiple	Multiple	Multiple	Multiple	Multiple
No. Motors	1	1	1	1	1
Motor HP	3/4	3/4	1-1/2	3/4	1
Motor RPM	1,050	1,050	1,400	1,050	1,050
Motor Frame Size	48	48	48	48	48
Filter - Type	Disposable	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]
Refrigerant Charge Oz. [g]					
Standard Models	66 [1,871.1]	66 [1,871.1]	66 [1,871.1]	66 [1,871.1]	66 [1,871.1]
Reheat Models	106 [3,010]	106 [3,010]	106 [3,010]	106 [3,010]	106 [3,010]
Weights					
Net Weight lbs. [kg]	561.1 [254.5]	560.1 [254.1]	560.1 [254.1]	558.7 [253.4]	558.7 [253.4]
Ship Weight lbs. [kg]	599.1 [271.7]	598.1 [271.3]	598.1 [271.3]	596.7 [270.7]	596.7 [270.7]

See Page 22 for Notes.

[ ] Designates Metric Conversions

GENERAL DATA—RACCYC MODELS—3-5 TON

Model RACCYC Series	048AJT	048ACT	048ACU	048ADT	048ADU
Cooling Performance[A]					CONTINUED ⟶
Cooling Capacity Btu/h [kW]	48,000 [14.07]	48,000 [14.07]	48,000 [14.07]	48,000 [14.07]	48,000 [14.07]
EER2/SEER2[B]	12/16.2	12/16.2	12/16.2	12/16.2	12/16.2
Nominal CFM/AHRI Rated CFM [L/s]	1,600/1,460 [755/689]	1,600/1,460 [755/689]	1,600/1,460 [755/689]	1,600/1,460 [755/689]	1,600/1,460 [755/689]
AHRI Net Cooling Capacity Btu/h [kW]	45,500 [13.34]	45,500 [13.34]	45,500 [13.34]	45,500 [13.34]	45,500 [13.34]
Net Sensible Capacity Btu/h [kW]	34,200 [10.02]	34,200 [10.02]	34,200 [10.02]	34,200 [10.02]	34,200 [10.02]
Net Latent Capacity Btu/h [kW]	11,300 [3.31]	11,300 [3.31]	11,300 [3.31]	11,300 [3.31]	11,300 [3.31]
Net System Power kW	4.29	4.29	4.29	4.29	4.29
Compressor					
No./Stage/Type	1/2/Scroll	1/2/Scroll	1/2/Scroll	1/2/Scroll	1/2/Scroll
Outdoor Sound Rating (dB)[C]	83	83	83	83	83
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.71 [18]	0.71 [18]	0.71 [18]	0.71 [18]	0.71 [18]
Face Area sq. ft. [sq. m]	16.72 [1.55]	16.72 [1.55]	16.72 [1.55]	16.72 [1.55]	16.72 [1.55]
Rows / FPI [FPcm]	1/23 [9]	1/23 [9]	1/23 [9]	1/23 [9]	1/23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	7.49 [0.69]	7.49 [0.69]	7.49 [0.69]	7.49 [0.69]	7.49 [0.69]
Rows / FPI [FPcm]	1/20 [8]	1/20 [8]	1/20 [8]	1/20 [8]	1/20 [8]
Refrigerant Control	TX Valves	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]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]
Drive Type/No. Speeds	Direct/2	Direct/2	Direct/2	Direct/2	Direct/2
CFM [L/s]	5,900 [2,784]	5,900 [2,784]	5,900 [2,784]	5,900 [2,784]	5,900 [2,784]
No. Motors at HP	1 at 1/2 HP	1 at 1/2 HP	1 at 1/2 HP	1 at 1/2 HP	1 at 1/2 HP
Motor RPM Low Stage / High Stage	900/800	900/800	900/800	900/800	900/800
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/5.6 [142.2]	1/5.6 [142.2]	1/5.6 [142.2]	1/5.6 [142.2]	1/5.6 [142.2]
Drive Type	Direct	Direct	Direct	Direct	Direct
No. Speeds	Multiple	Multiple	Multiple	Multiple	Multiple
No. Motors	1	1	1	1	1
Motor HP	3/4	3/4	1-1/2	3/4	1
Motor RPM	1,050	1,050	1,400	1,050	1,050
Motor Frame Size	48	48	48	48	48
Filter - Type	Disposable	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]
Refrigerant Charge Oz. [g]					
Standard Models	75 [2,126.2]	75 [2,126.2]	75 [2,126.2]	75 [2,126.2]	75 [2,126.2]
Reheat Models	116 [3,290]	116 [3,290]	116 [3,290]	116 [3,290]	116 [3,290]
Weights					
Net Weight lbs. [kg]	581.3 [263.7]	581.3 [263.7]	581.3 [263.7]	578.17 [262.3]	578.17 [262.3]
Ship Weight lbs. [kg]	619.3 [280.9]	619.3 [280.9]	619.3 [280.9]	616.17 [279.5]	616.17 [279.5]

See Page 22 for Notes.

[ ] Designates Metric Conversions

GENERAL DATA—RACCYC MODELS—3-5 TON

Model RACCYC Series	060AJT	060ACT	060ACU	060ADT	060ADU
Cooling Performance[A]					
Cooling Capacity Btu/h [kW]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
EER2/SEER2[B]	12/16.2	12/16.2	12/16.2	12/16.2	12/16.2
Nominal CFM/AHRI Rated CFM [L/s]	2,000/1,840 [944/868]	2,000/1,840 [944/868]	2,000/1,840 [944/868]	2,000/1,840 [944/868]	2,000/1,840 [944/868]
AHRI Net Cooling Capacity Btu/h [kW]	57,000 [16.71]	57,000 [16.71]	57,000 [16.71]	57,000 [16.71]	57,000 [16.71]
Net Sensible Capacity Btu/h [kW]	43,000 [12.6]	43,000 [12.6]	43,000 [12.6]	43,000 [12.6]	43,000 [12.6]
Net Latent Capacity Btu/h [kW]	14,000 [4.1]	14,000 [4.1]	14,000 [4.1]	14,000 [4.1]	14,000 [4.1]
Net System Power kW	5.38	5.38	5.38	5.38	5.38
Compressor					
No./Stage/Type	1/2/Scroll	1/2/Scroll	1/2/Scroll	1/2/Scroll	1/2/Scroll
Outdoor Sound Rating (dB)[C]	86	86	86	86	86
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.71 [18]	0.71 [18]	0.71 [18]	0.71 [18]	0.71 [18]
Face Area sq. ft. [sq. m]	16.66 [1.55]	16.66 [1.55]	16.66 [1.55]	16.66 [1.55]	16.66 [1.55]
Rows / FPI [FPcm]	1/23 [9]	1/23 [9]	1/23 [9]	1/23 [9]	1/23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	7.47 [0.69]	7.47 [0.69]	7.47 [0.69]	7.47 [0.69]	7.47 [0.69]
Rows / FPI [FPcm]	1/20 [8]	1/20 [8]	1/20 [8]	1/20 [8]	1/20 [8]
Refrigerant Control	TX Valves	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]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]	1/26 [660.4]
Drive Type/No. Speeds	Direct/2	Direct/2	Direct/2	Direct/2	Direct/2
CFM [L/s]	5,900 [2,784]	5,900 [2,784]	5,900 [2,784]	5,900 [2,784]	5,900 [2,784]
No. Motors at HP	1 at 1/2 HP	1 at 1/2 HP	1 at 1/2 HP	1 at 1/2 HP	1 at 1/2 HP
Motor RPM Low Stage / High Stage	900/800	900/800	900/800	900/800	900/800
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/5.6 [142.2]	1/5.6 [142.2]	1/5.6 [142.2]	1/5.6 [142.2]	1/5.6 [142.2]
Drive Type	Direct	Direct	Direct	Direct	Direct
No. Speeds	Multiple	Multiple	Multiple	Multiple	Multiple
No. Motors	1	1	1	1	1
Motor HP	1	1	1-1/2	1	1-1/5
Motor RPM	1,050	1,050	1,400	1,050	1,300
Motor Frame Size	48	48	48	48	48
Filter - Type	Disposable	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]	(4) 2x16x16 [51x406x406]
Refrigerant Charge Oz. [g]					
Standard Models	81 [2,296.3]	81 [2,296.3]	81 [2,296.3]	81 [2,296.3]	81 [2,296.3]
Reheat Models	121 [3,430]	121 [3,430]	121 [3,430]	121 [3,430]	121 [3,430]
Weights					
Net Weight lbs. [kg]	583.8 [264.8]	583.8 [264.8]	583.8 [264.8]	583.8 [264.8]	583.8 [264.8]
Ship Weight lbs. [kg]	621.8 [282.1]	621.8 [282.1]	621.8 [282.1]	621.8 [282.1]	621.8 [282.1]

See Page 22 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 ± 20% of nominal CFM. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

B EER/EER2 and SEER2 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.

D. Integrated Energy Efficiency Ratio (IEER) is rated in accordance with AHRI Standard 340/360.

WEIGHTED SOUND POWER LEVEL (dBA)

Unit Size – Series	Standard Rating (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dBA without tone adjustment)							
		63	125	250	500	1000	2000	4000	8000
RACCYB036	78.0	48.7	58.1	63.9	67.0	67.8	64.7	60.6	54.7
RACCYB048	85.3	58.2	64.7	75.1	74.7	75.5	72.3	67.8	61.0
RACCYB060	86.0	58.2	62.5	76.7	75.0	75.2	77.0	69.0	60.0
RACCYB072	85.0	54.9	67.3	69.4	73.8	73.4	71.2	69.6	65.3
RACCYC036	79.0	50.4	63.0	65.0	69.0	70.0	66.0	62.0	56.0
RACCYC048	83.0	49.3	63.0	69.0	73.0	73.0	70.0	66.0	59.0
RACCYC060	86.0	62.2	65.0	74.0	76.0	76.0	72.0	68.0	61.0

Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

COOLING PERFORMANCE DATA—RACCYB036

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]			1325 [625]	1175 [555]	950 [448]	1325 [625]	1175 [555]	950 [448]	1325 [625]	1175 [555]	950 [448]	
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75°F [23.9°C]	Total kBtu/h [kW]	44.3 [13.0]	43.3 [12.7]	41.8 [12.3]	41.5 [12.2]	40.5 [11.9]	39.1 [11.5]	39.1 [11.5]	38.2 [11.2]	36.9 [10.8]	
		Sens kBtu/h [kW]	26.0 [7.6]	24.6 [7.2]	22.4 [6.6]	29.6 [8.7]	27.9 [8.2]	25.4 [7.4]	33.7 [9.9]	31.8 [9.3]	28.9 [8.5]	
		Power	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	
	80°F [26.7°C]	Total kBtu/h [kW]	43.0 [12.6]	42.0 [12.3]	40.6 [11.9]	40.2 [11.8]	39.3 [11.5]	37.9 [11.1]	37.8 [11.1]	37.0 [10.8]	35.7 [10.5]	
		Sens kBtu/h [kW]	25.5 [7.5]	24.0 [7.0]	21.9 [6.4]	29.0 [8.5]	27.4 [8.0]	24.9 [7.3]	33.1 [9.7]	31.3 [9.2]	28.5 [8.4]	
		Power	2.4	2.3	2.3	2.4	2.4	2.3	2.4	2.3	2.3	
	85°F [29.4°C]	Total kBtu/h [kW]	41.7 [12.2]	40.7 [11.9]	39.3 [11.5]	38.8 [11.4]	37.9 [11.1]	36.6 [10.7]	36.5 [10.7]	35.7 [10.5]	34.4 [10.1]	
		Sens kBtu/h [kW]	24.8 [7.3]	23.4 [6.9]	21.3 [6.2]	28.4 [8.3]	26.8 [7.9]	24.4 [7.2]	32.5 [9.5]	30.6 [9.0]	27.9 [8.2]	
		Power	2.5	2.5	2.4	2.5	2.5	2.4	2.5	2.5	2.4	
	90°F [32.2°C]	Total kBtu/h [kW]	40.2 [11.8]	39.3 [11.5]	38.0 [11.1]	37.4 [11.0]	36.5 [10.7]	35.3 [10.3]	35.0 [10.3]	34.3 [10.1]	33.1 [9.7]	
		Sens kBtu/h [kW]	24.1 [7.1]	22.7 [6.7]	20.7 [6.1]	27.7 [8.1]	26.1 [7.6]	23.8 [7.0]	31.7 [9.3]	30.0 [8.8]	27.3 [8.0]	
		Power	2.6	2.6	2.5	2.6	2.6	2.6	2.6	2.6	2.6	
	95°F [35°C]	Total kBtu/h [kW]	38.7 [11.3]	37.9 [11.1]	36.5 [10.7]	35.9 [10.5]	35.1 [10.3]	33.8 [9.9]	33.5 [9.8]	32.8 [9.6]	31.6 [9.3]	
		Sens kBtu/h [kW]	23.3 [6.8]	22.0 [6.4]	20.0 [5.9]	26.9 [7.9]	25.3 [7.4]	23.1 [6.8]	31.0 [9.1]	29.2 [8.6]	26.6 [7.8]	
		Power	2.7	2.7	2.7	2.8	2.7	2.7	2.8	2.7	2.7	
	100°F [37.8°C]	Total kBtu/h [kW]	37.2 [10.9]	36.3 [10.6]	35.0 [10.3]	34.3 [10.1]	33.5 [9.8]	32.4 [9.5]	32.0 [9.4]	31.2 [9.1]	30.2 [8.9]	
		Sens kBtu/h [kW]	22.4 [6.6]	21.2 [6.2]	19.3 [5.7]	26.0 [7.6]	24.5 [7.2]	22.3 [6.5]	30.1 [8.8]	28.4 [8.3]	25.9 [7.6]	
		Power	2.9	2.8	2.8	2.9	2.9	2.8	2.9	2.9	2.8	
	105°F [40.6°C]	Total kBtu/h [kW]	35.5 [10.4]	34.7 [10.2]	33.5 [9.8]	32.7 [9.6]	31.9 [9.3]	30.8 [9.0]	30.3 [8.9]	29.6 [8.7]	28.6 [8.4]	
		Sens kBtu/h [kW]	21.5 [6.3]	20.3 [5.9]	18.5 [5.4]	25.0 [7.3]	23.6 [6.9]	21.5 [6.3]	29.1 [8.5]	27.5 [8.1]	25.0 [7.3]	
		Power	3.0	3.0	2.9	3.0	3.0	2.9	3.0	3.0	2.9	
	110°F [43.3°C]	Total kBtu/h [kW]	33.8 [9.9]	33.0 [9.7]	31.9 [9.3]	30.9 [9.1]	30.2 [8.9]	29.2 [8.6]	28.6 [8.4]	27.9 [8.2]	27.0 [7.9]	
		Sens kBtu/h [kW]	20.5 [6.0]	19.3 [5.7]	17.6 [5.2]	24.0 [7.0]	22.7 [6.7]	20.6 [6.0]	28.1 [8.2]	26.5 [7.8]	24.2 [7.1]	
		Power	3.1	3.1	3.1	3.2	3.1	3.1	3.2	3.1	3.1	
	115°F [46.1°C]	Total kBtu/h [kW]	32.0 [9.4]	31.3 [9.2]	30.2 [8.9]	29.1 [8.5]	28.5 [8.4]	27.5 [8.1]	26.8 [7.9]	26.2 [7.7]	25.3 [7.4]	
		Sens kBtu/h [kW]	19.4 [5.7]	18.3 [5.4]	16.6 [4.9]	22.9 [6.7]	21.6 [6.3]	19.7 [5.8]	26.8 [7.9]	25.5 [7.5]	23.2 [6.8]	
		Power	3.3	3.2	3.2	3.3	3.3	3.2	3.3	3.2	3.2	
	120°F [48.9°C]	Total kBtu/h [kW]	30.1 [8.8]	29.4 [8.6]	28.4 [8.3]	27.3 [8.0]	26.7 [7.8]	25.7 [7.5]	24.9 [7.3]	24.4 [7.2]	23.5 [6.9]	
		Sens kBtu/h [kW]	18.2 [5.3]	17.2 [5.0]	15.6 [4.6]	21.7 [6.4]	20.5 [6.0]	18.7 [5.5]	24.9 [7.3]	24.4 [7.2]	22.2 [6.5]	
		Power	3.4	3.4	3.3	3.4	3.4	3.3	3.4	3.4	3.3	
	125°F [51.7°C]	Total kBtu/h [kW]	28.2 [8.3]	27.5 [8.1]	26.6 [7.8]	25.3 [7.4]	24.8 [7.3]	23.9 [7.0]	23.0 [6.7]	22.5 [6.6]	21.7 [6.4]	
		Sens kBtu/h [kW]	16.9 [5.0]	16.0 [4.7]	14.6 [4.3]	20.5 [6.0]	19.3 [5.7]	17.6 [5.2]	23.0 [6.7]	22.5 [6.6]	21.1 [6.2]	
		Power	3.5	3.5	3.4	3.6	3.5	3.5	3.5	3.5	3.4	

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb
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—RACCYB048

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]			1775 [838]	1575 [743]	1275 [602]	1775 [838]	1575 [743]	1275 [602]	1775 [838]	1575 [743]	1275 [602]	
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75°F [23.9°C]	Total kBtu/h [kW]	57.1 [16.7]	55.8 [16.4]	53.9 [15.8]	54.2 [15.9]	53.0 [15.5]	51.2 [15.0]	51.4 [15.1]	50.2 [14.7]	48.5 [14.2]	
		Sens kBtu/h [kW]	33.2 [9.7]	31.4 [9.2]	28.6 [8.4]	38.6 [11.3]	36.5 [10.7]	33.2 [9.7]	44.0 [12.9]	41.5 [12.2]	37.8 [11.1]	
		Power	3.4	3.4	3.3	3.4	3.4	3.3	3.4	3.3	3.3	
	80°F [26.7°C]	Total kBtu/h [kW]	55.7 [16.3]	54.4 [15.9]	52.5 [15.4]	52.8 [15.5]	51.6 [15.1]	49.9 [14.6]	50.0 [14.7]	48.9 [14.3]	47.2 [13.8]	
		Sens kBtu/h [kW]	32.4 [9.5]	30.6 [9.0]	27.9 [8.2]	37.8 [11.1]	35.7 [10.5]	32.5 [9.5]	43.2 [12.7]	40.7 [11.9]	37.1 [10.9]	
		Power	3.5	3.5	3.4	3.6	3.5	3.5	3.5	3.5	3.4	
	85°F [29.4°C]	Total kBtu/h [kW]	54.3 [15.9]	53.1 [15.6]	51.2 [15.0]	51.4 [15.1]	50.3 [14.7]	48.5 [14.2]	48.6 [14.2]	47.5 [13.9]	45.8 [13.4]	
		Sens kBtu/h [kW]	31.6 [9.3]	29.8 [8.7]	27.2 [8.0]	36.9 [10.8]	34.9 [10.2]	31.8 [9.3]	42.3 [12.4]	40.0 [11.7]	36.4 [10.7]	
		Power	3.7	3.6	3.6	3.7	3.7	3.6	3.7	3.6	3.6	
	90°F [32.2°C]	Total kBtu/h [kW]	52.9 [15.5]	51.7 [15.2]	49.9 [14.6]	50.0 [14.7]	48.9 [14.3]	47.2 [13.8]	47.2 [13.8]	46.1 [13.5]	44.5 [13.0]	
		Sens kBtu/h [kW]	30.7 [9.0]	29.0 [8.5]	26.4 [7.7]	36.1 [10.6]	34.1 [10.0]	31.1 [9.1]	41.5 [12.2]	39.2 [11.5]	35.7 [10.5]	
		Power	3.8	3.8	3.7	3.8	3.8	3.7	3.8	3.7	3.7	
	95°F [35°C]	Total kBtu/h [kW]	51.5 [15.1]	50.3 [14.7]	48.6 [14.2]	48.6 [14.2]	47.5 [13.9]	45.9 [13.5]	45.8 [13.4]	44.8 [13.1]	43.2 [12.7]	
		Sens kBtu/h [kW]	29.9 [8.8]	28.2 [8.3]	25.7 [7.5]	35.3 [10.3]	33.3 [9.8]	30.3 [8.9]	40.7 [11.9]	38.4 [11.3]	35.0 [10.3]	
		Power	3.9	3.9	3.8	4.0	3.9	3.9	3.9	3.9	3.8	
	100°F [37.8°C]	Total kBtu/h [kW]	50.1 [14.7]	49.0 [14.4]	47.3 [13.9]	47.2 [13.8]	46.2 [13.5]	44.6 [13.1]	44.4 [13.0]	43.4 [12.7]	41.9 [12.3]	
		Sens kBtu/h [kW]	29.1 [8.5]	27.4 [8.0]	25.0 [7.3]	34.5 [10.1]	32.5 [9.5]	29.6 [8.7]	39.8 [11.7]	37.6 [11.0]	34.3 [10.1]	
		Power	4.1	4.0	4.0	4.1	4.1	4.0	4.1	4.0	4.0	
	105°F [40.6°C]	Total kBtu/h [kW]	48.7 [14.3]	47.6 [14.0]	45.9 [13.5]	45.8 [13.4]	44.8 [13.1]	43.3 [12.7]	43.0 [12.6]	42.0 [12.3]	40.6 [11.9]	
		Sens kBtu/h [kW]	28.2 [8.3]	26.7 [7.8]	24.3 [7.1]	33.6 [9.8]	31.7 [9.3]	28.9 [8.5]	39.0 [11.4]	36.8 [10.8]	33.5 [9.8]	
		Power	4.2	4.2	4.1	4.2	4.2	4.1	4.2	4.2	4.1	
	110°F [43.3°C]	Total kBtu/h [kW]	47.3 [13.9]	46.2 [13.5]	44.6 [13.1]	44.4 [13.0]	43.4 [12.7]	41.9 [12.3]	41.6 [12.2]	40.6 [11.9]	39.2 [11.5]	
		Sens kBtu/h [kW]	27.4 [8.0]	25.9 [7.6]	23.6 [6.9]	32.8 [9.6]	31.0 [9.1]	28.2 [8.3]	38.2 [11.2]	36.0 [10.6]	32.8 [9.6]	
		Power	4.4	4.3	4.2	4.4	4.3	4.3	4.3	4.3	4.2	
	115°F [46.1°C]	Total kBtu/h [kW]	45.9 [13.5]	44.9 [13.2]	43.3 [12.7]	43.0 [12.6]	42.1 [12.3]	40.6 [11.9]	40.2 [11.8]	39.3 [11.5]	37.9 [11.1]	
		Sens kBtu/h [kW]	26.6 [7.8]	25.1 [7.4]	22.9 [6.7]	32.0 [9.4]	30.2 [8.9]	27.5 [8.1]	37.3 [10.9]	35.2 [10.3]	32.1 [9.4]	
		Power	4.5	4.4	4.4	4.5	4.5	4.4	4.5	4.4	4.4	
	120°F [48.9°C]	Total kBtu/h [kW]	44.5 [13.0]	43.5 [12.7]	42.0 [12.3]	41.6 [12.2]	40.7 [11.9]	39.3 [11.5]	38.8 [11.4]	37.9 [11.1]	36.6 [10.7]	
		Sens kBtu/h [kW]	25.7 [7.5]	24.3 [7.1]	22.1 [6.5]	31.1 [9.1]	29.4 [8.6]	26.8 [7.9]	36.5 [10.7]	34.5 [10.1]	31.4 [9.2]	
		Power	4.6	4.6	4.5	4.7	4.6	4.5	4.6	4.6	4.5	
	125°F [51.7°C]	Total kBtu/h [kW]	43.1 [12.6]	42.1 [12.3]	40.7 [11.9]	40.2 [11.8]	39.3 [11.5]	38.0 [11.1]	37.4 [11.0]	36.5 [10.7]	35.3 [10.3]	
		Sens kBtu/h [kW]	24.9 [7.3]	23.5 [6.9]	21.4 [6.3]	30.3 [8.9]	28.6 [8.4]	26.1 [7.6]	35.7 [10.5]	33.7 [9.9]	30.7 [9.0]	
		Power	4.8	4.7	4.6	4.8	4.7	4.7	4.8	4.7	4.6	

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb
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—RACCYB060

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]			2200 [1038]	1825 [861]	1600 [755]	2200 [1038]	1825 [861]	1600 [755]	2200 [1038]	1825 [861]	1600 [755]	
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75°F [23.9°C]	Total kBtu/h [kW]	72.1 [21.1]	69.5 [20.4]	67.9 [19.9]	68.4 [20.0]	66.0 [19.3]	64.5 [18.9]	64.9 [19.0]	62.6 [18.3]	61.1 [17.9]	
		Sens kBtu/h [kW]	43.2 [12.7]	39.4 [11.5]	37.2 [10.9]	48.5 [14.2]	44.2 [13.0]	41.7 [12.2]	53.9 [15.8]	49.2 [14.4]	46.3 [13.6]	
		Power	4.2	4.1	4.1	4.2	4.2	4.1	4.2	4.1	4.1	
	80°F [26.7°C]	Total kBtu/h [kW]	70.4 [20.6]	67.9 [19.9]	66.4 [19.5]	66.8 [19.6]	64.4 [18.9]	62.9 [18.4]	63.2 [18.5]	60.9 [17.8]	59.6 [17.5]	
		Sens kBtu/h [kW]	42.4 [12.4]	38.7 [11.3]	36.5 [10.7]	47.7 [14.0]	43.5 [12.7]	41.0 [12.0]	53.1 [15.6]	48.4 [14.2]	45.6 [13.4]	
		Power	4.4	4.4	4.3	4.5	4.4	4.4	4.5	4.4	4.3	
	85°F [29.4°C]	Total kBtu/h [kW]	68.6 [20.1]	66.1 [19.4]	64.7 [19.0]	64.9 [19.0]	62.6 [18.3]	61.2 [17.9]	61.4 [18.0]	59.2 [17.4]	57.9 [17.0]	
		Sens kBtu/h [kW]	41.5 [12.2]	37.9 [11.1]	35.7 [10.5]	46.7 [13.7]	42.7 [12.5]	40.2 [11.8]	52.1 [15.3]	47.6 [14.0]	44.8 [13.1]	
		Power	4.7	4.6	4.6	4.7	4.6	4.6	4.7	4.6	4.6	
	90°F [32.2°C]	Total kBtu/h [kW]	66.7 [19.5]	64.3 [18.8]	62.8 [18.4]	63.0 [18.5]	60.7 [17.8]	59.4 [17.4]	59.5 [17.4]	57.3 [16.8]	56.0 [16.4]	
		Sens kBtu/h [kW]	40.4 [11.8]	36.9 [10.8]	34.7 [10.2]	45.6 [13.4]	41.7 [12.2]	39.3 [11.5]	51.0 [14.9]	46.6 [13.7]	43.9 [12.9]	
		Power	4.9	4.8	4.8	5.0	4.9	4.8	4.9	4.8	4.8	
	95°F [35°C]	Total kBtu/h [kW]	64.6 [18.9]	62.2 [18.2]	60.8 [17.8]	60.9 [17.8]	58.7 [17.2]	57.4 [16.8]	57.4 [16.8]	55.3 [16.2]	54.1 [15.9]	
		Sens kBtu/h [kW]	39.2 [11.5]	35.7 [10.5]	33.7 [9.9]	44.4 [13.0]	40.5 [11.9]	38.2 [11.2]	49.8 [14.6]	45.4 [13.3]	42.8 [12.5]	
		Power	5.2	5.1	5.0	5.2	5.1	5.0	5.2	5.1	5.0	
	100°F [37.8°C]	Total kBtu/h [kW]	62.3 [18.3]	60.1 [17.6]	58.7 [17.2]	58.7 [17.2]	56.6 [16.6]	55.3 [16.2]	55.1 [16.1]	53.1 [15.6]	52.0 [15.2]	
		Sens kBtu/h [kW]	37.8 [11.1]	34.5 [10.1]	32.5 [9.5]	43.0 [12.6]	39.3 [11.5]	37.0 [10.8]	48.4 [14.2]	44.2 [13.0]	41.6 [12.2]	
		Power	5.4	5.3	5.2	5.4	5.3	5.3	5.4	5.3	5.2	
	105°F [40.6°C]	Total kBtu/h [kW]	60.0 [17.6]	57.8 [16.9]	56.5 [16.6]	56.3 [16.5]	54.3 [15.9]	53.1 [15.6]	52.8 [15.5]	50.9 [14.9]	49.7 [14.6]	
		Sens kBtu/h [kW]	36.2 [10.6]	33.1 [9.7]	31.2 [9.1]	41.5 [12.2]	37.9 [11.1]	35.7 [10.5]	46.9 [13.7]	42.8 [12.5]	40.3 [11.8]	
		Power	5.6	5.5	5.5	5.7	5.6	5.5	5.6	5.5	5.5	
	110°F [43.3°C]	Total kBtu/h [kW]	57.5 [16.9]	55.4 [16.2]	54.2 [15.9]	53.8 [15.8]	51.9 [15.2]	50.7 [14.9]	50.3 [14.7]	48.4 [14.2]	47.4 [13.9]	
		Sens kBtu/h [kW]	34.6 [10.1]	31.5 [9.2]	29.7 [8.7]	39.8 [11.7]	36.3 [10.6]	34.2 [10.0]	45.2 [13.2]	41.2 [12.1]	38.9 [11.4]	
		Power	5.9	5.8	5.7	5.9	5.8	5.7	5.9	5.8	5.7	
	115°F [46.1°C]	Total kBtu/h [kW]	54.8 [16.1]	52.8 [15.5]	51.7 [15.2]	51.2 [15.0]	49.3 [14.4]	48.2 [14.1]	47.6 [14.0]	45.9 [13.5]	44.9 [13.2]	
		Sens kBtu/h [kW]	32.7 [9.6]	29.9 [8.8]	28.2 [8.3]	38.0 [11.1]	34.7 [10.2]	32.7 [9.6]	43.4 [12.7]	39.6 [11.6]	37.3 [10.9]	
		Power	6.1	6.0	5.9	6.1	6.0	6.0	6.1	6.0	5.9	
	120°F [48.9°C]	Total kBtu/h [kW]	52.0 [15.2]	50.2 [14.7]	49.0 [14.4]	48.4 [14.2]	46.6 [13.7]	45.6 [13.4]	44.8 [13.1]	43.2 [12.7]	42.2 [12.4]	
		Sens kBtu/h [kW]	30.8 [9.0]	28.1 [8.2]	26.5 [7.8]	36.0 [10.6]	32.9 [9.6]	31.0 [9.1]	41.4 [12.1]	37.8 [11.1]	35.6 [10.4]	
		Power	6.3	6.2	6.2	6.4	6.3	6.2	6.3	6.2	6.2	
	125°F [51.7°C]	Total kBtu/h [kW]	49.1 [14.4]	47.3 [13.9]	46.3 [13.6]	45.4 [13.3]	43.8 [12.8]	42.8 [12.5]	41.9 [12.3]	40.4 [11.8]	39.5 [11.6]	
		Sens kBtu/h [kW]	28.6 [8.4]	26.1 [7.6]	24.6 [7.2]	33.9 [9.9]	30.9 [9.1]	29.2 [8.6]	39.3 [11.5]	35.8 [10.5]	33.8 [9.9]	
		Power	6.6	6.5	6.4	6.6	6.5	6.4	6.6	6.5	6.4	

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb
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—RACCYB072

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]			2525 [1192]	2400 [1133]	1825 [861]	2525 [1192]	2400 [1133]	1825 [861]	2525 [1192]	2400 [1133]	1825 [861]	
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75°F [23.9°C]	Total kBtu/h [kW]	79.7 [23.4]	78.9 [23.1]	75.5 [22.1]	73.8 [21.6]	73.1 [21.4]	70.0 [20.5]	68.0 [19.9]	67.4 [19.8]	64.4 [18.9]	
		Sens kBtu/h [kW]	44.6 [13.1]	43.5 [12.7]	38.6 [11.3]	49.7 [14.6]	48.5 [14.2]	43.1 [12.6]	54.9 [16.1]	53.6 [15.7]	47.6 [14.0]	
		Power	4.8	4.8	4.7	4.7	4.7	4.6	4.9	4.8	4.7	
	80°F [26.7°C]	Total kBtu/h [kW]	78.2 [22.9]	77.4 [22.7]	74.1 [21.7]	72.3 [21.2]	71.6 [21.0]	68.5 [20.1]	66.5 [19.5]	65.9 [19.3]	63.0 [18.5]	
		Sens kBtu/h [kW]	44.4 [13.0]	43.4 [12.7]	38.5 [11.3]	49.6 [14.5]	48.4 [14.2]	43.0 [12.6]	54.7 [16.0]	53.4 [15.7]	47.5 [13.9]	
		Power	5.2	5.1	5.0	5.1	5.0	4.9	5.2	5.2	5.1	
	85°F [29.4°C]	Total kBtu/h [kW]	76.6 [22.5]	75.9 [22.2]	72.6 [21.3]	70.8 [20.8]	70.1 [20.5]	67.1 [19.7]	65.0 [19.1]	64.4 [18.9]	61.6 [18.1]	
		Sens kBtu/h [kW]	44.3 [13.0]	43.2 [12.7]	38.4 [11.3]	49.4 [14.5]	48.3 [14.2]	42.9 [12.6]	54.6 [16.0]	53.3 [15.6]	47.4 [13.9]	
		Power	5.5	5.5	5.4	5.4	5.4	5.2	5.5	5.5	5.4	
	90°F [32.2°C]	Total kBtu/h [kW]	75.1 [22.0]	74.4 [21.8]	71.2 [20.9]	69.3 [20.3]	68.6 [20.1]	65.7 [19.3]	63.5 [18.6]	62.9 [18.4]	60.1 [17.6]	
		Sens kBtu/h [kW]	44.2 [13.0]	43.1 [12.6]	38.3 [11.2]	49.3 [14.4]	48.1 [14.1]	42.8 [12.5]	54.5 [16.0]	53.2 [15.6]	47.2 [13.8]	
		Power	5.8	5.8	5.7	5.7	5.7	5.6	5.8	5.8	5.7	
	95°F [35°C]	Total kBtu/h [kW]	73.6 [21.6]	72.9 [21.4]	69.8 [20.5]	67.8 [19.9]	67.1 [19.7]	64.2 [18.8]	61.9 [18.1]	61.4 [18.0]	58.7 [17.2]	
		Sens kBtu/h [kW]	44.0 [12.9]	43.0 [12.6]	38.2 [11.2]	49.2 [14.4]	48.0 [14.1]	42.6 [12.5]	54.3 [15.9]	53.0 [15.5]	47.1 [13.8]	
		Power	6.1	6.1	6.0	6.0	6.0	5.9	6.2	6.1	6.0	
	100°F [37.8°C]	Total kBtu/h [kW]	72.1 [21.1]	71.4 [20.9]	68.3 [20.0]	66.3 [19.4]	65.6 [19.2]	62.8 [18.4]	60.4 [17.7]	59.9 [17.6]	57.3 [16.8]	
		Sens kBtu/h [kW]	43.9 [12.9]	42.8 [12.5]	38.0 [11.1]	49.0 [14.4]	47.9 [14.0]	42.5 [12.5]	54.2 [15.9]	52.9 [15.5]	47.0 [13.8]	
		Power	6.5	6.4	6.3	6.4	6.3	6.2	6.5	6.4	6.3	
	105°F [40.6°C]	Total kBtu/h [kW]	70.6 [20.7]	69.9 [20.5]	66.9 [19.6]	64.8 [19.0]	64.1 [18.8]	61.4 [18.0]	58.9 [17.3]	58.4 [17.1]	55.8 [16.4]	
		Sens kBtu/h [kW]	43.7 [12.8]	42.7 [12.5]	37.9 [11.1]	48.9 [14.3]	47.7 [14.0]	42.4 [12.4]	54.0 [15.8]	52.8 [15.5]	46.9 [13.7]	
		Power	6.8	6.7	6.6	6.7	6.6	6.5	6.8	6.8	6.6	
	110°F [43.3°C]	Total kBtu/h [kW]	69.1 [20.3]	68.4 [20.0]	65.4 [19.2]	63.2 [18.5]	62.6 [18.3]	59.9 [17.6]	57.4 [16.8]	56.9 [16.7]	54.4 [15.9]	
		Sens kBtu/h [kW]	43.6 [12.8]	42.6 [12.5]	37.8 [11.1]	48.7 [14.3]	47.6 [14.0]	42.3 [12.4]	53.9 [15.8]	52.6 [15.4]	46.7 [13.7]	
		Power	7.1	7.1	6.9	7.0	7.0	6.8	7.1	7.1	6.9	
	115°F [46.1°C]	Total kBtu/h [kW]	67.6 [19.8]	66.9 [19.6]	64.0 [18.8]	61.7 [18.1]	61.1 [17.9]	58.5 [17.1]	55.9 [16.4]	55.4 [16.2]	53.0 [15.5]	
		Sens kBtu/h [kW]	43.4 [12.7]	42.4 [12.4]	37.7 [11.0]	48.6 [14.2]	47.5 [13.9]	42.1 [12.3]	53.8 [15.8]	52.5 [15.4]	46.6 [13.7]	
		Power	7.4	7.4	7.2	7.3	7.3	7.1	7.4	7.4	7.2	
	120°F [48.9°C]	Total kBtu/h [kW]	66.0 [19.3]	65.4 [19.2]	62.6 [18.3]	60.2 [17.6]	59.6 [17.5]	57.0 [16.7]	54.4 [15.9]	53.9 [15.8]	51.5 [15.1]	
		Sens kBtu/h [kW]	43.3 [12.7]	42.3 [12.4]	37.6 [11.0]	48.5 [14.2]	47.3 [13.9]	42.0 [12.3]	53.6 [15.7]	52.4 [15.4]	46.5 [13.6]	
		Power	7.7	7.7	7.5	7.6	7.6	7.4	7.8	7.7	7.6	
	125°F [51.7°C]	Total kBtu/h [kW]	64.5 [18.9]	63.9 [18.7]	61.1 [17.9]	58.7 [17.2]	58.1 [17.0]	55.6 [16.3]	52.9 [15.5]	52.4 [15.4]	50.1 [14.7]	
		Sens kBtu/h [kW]	43.2 [12.7]	42.1 [12.3]	37.4 [11.0]	48.3 [14.2]	47.2 [13.8]	41.9 [12.3]	52.9 [15.5]	52.2 [15.3]	46.4 [13.6]	
		Power	8.1	8.0	7.9	8.0	7.9	7.8	8.1	8.0	7.9	

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb
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—RACCYC036

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]			1425 [673]	1050 [496]	1100 [519]	1425 [673]	1050 [496]	1100 [519]	1425 [673]	1050 [496]	1100 [519]	
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75°F [23.9°C]	Total kBtu/h [kW]	46.7 [13.7]	43.8 [12.8]	44.2 [13.0]	43.6 [12.8]	41.0 [12.0]	41.3 [12.1]	40.4 [11.8]	37.9 [11.1]	38.3 [11.2]	
		Sens kBtu/h [kW]	28.1 [8.2]	24.1 [7.1]	24.6 [7.2]	32.1. [9.4]	27.5 [8.1]	28.1 [8.2]	35.9 [10.5]	30.8 [9.0]	31.5 [9.2]	
		Power	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	
	80°F [26.7°C]	Total kBtu/h [kW]	46.1 [13.5]	43.3 [12.7]	43.7 [12.8]	43.1 [12.6]	40.5 [11.9]	40.8 [12.0]	39.9 [11.7]	37.4 [11.0]	37.8 [11.1]	
		Sens kBtu/h [kW]	28.0 [8.2]	24.0 [7.0]	24.6 [7.2]	32.0 [9.4]	27.4 [8.0]	28.1 [8.2]	35.8 [10.5]	30.7 [9.0]	31.4. [9.2]	
		Power	2.5	2.4	2.4	2.5	2.4	2.4	2.4	2.3	2.3	
	85°F [29.4°C]	Total kBtu/h [kW]	45.4 [13.3]	42.6 [12.5]	43.0 [12.6]	42.4 [12.4]	39.8 [11.7]	40.1 [11.8]	39.1 [11.5]	36.8 [10.8]	37.1 [10.9]	
		Sens kBtu/h [kW]	27.7 [8.1]	23.8 [7.0]	24.3 [7.1]	31.7 [9.3]	27.2. [8.0]	27.8 [8.1]	35.5 [10.4]	30.4 [8.9]	31.1. [9.1]	
		Power	2.6	2.5	2.5	2.6	2.5	2.5	2.5	2.5	2.5	
	90°F [32.2°C]	Total kBtu/h [kW]	44.5 [13.0]	41.8 [12.3]	42.1 [12.3]	41.4 [12.1]	38.9 [11.4]	39.2 [11.5]	38.2 [11.2]	35.9 [10.5]	36.2 [10.6]	
		Sens kBtu/h [kW]	27.2. [8.0]	23.3 [6.8]	23.9. [7.0]	31.2. [9.1]	26.8. [7.9]	27.4. [8.0]	35.0 [10.3]	30.0 [8.8]	30.7 [9.0]	
		Power	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.6	
	95°F [35°C]	Total kBtu/h [kW]	43.4 [12.7]	40.7 [11.9]	41.1 [12.0]	40.3 [11.8]	37.9 [11.1]	38.2 [11.2]	37.1 [10.9]	34.8 [10.2]	35.1 [10.3]	
		Sens kBtu/h [kW]	26.5 [7.8]	22.7 [6.7]	23.2 [6.8]	30.5. [8.9]	26.1. [7.6]	26.7 [7.8]	34.3 [10.1]	29.4 [8.6]	30.1 [8.8]	
		Power	2.9	2.8	2.8	2.9	2.8	2.8	2.8	2.7	2.7	
	100°F [37.8°C]	Total kBtu/h [kW]	42.1 [12.3]	39.5 [11.6]	39.8 [11.7]	39.0 [11.4]	36.6 [10.7]	36.9 [10.8]	35.8 [10.5]	33.6 [9.8]	33.9. [9.9]	
		Sens kBtu/h [kW]	25.6 [7.5]	21.9 [6.4]	22.4 [6.6]	29.6. [8.7]	25.3. [7.4]	25.9 [7.6]	33.4. [9.8]	28.6 [8.4]	29.2 [8.6]	
		Power	3.0	2.9	2.9	3.0	2.9	2.9	2.9	2.9	2.9	
	105°F [40.6°C]	Total kBtu/h [kW]	40.5 [11.9]	38.1 [11.2]	38.4 [11.3]	37.5 [11.0]	35.2 [10.3]	35.5 [10.4]	34.3 [10.1]	32.2. [9.4]	32.5 [9.5]	
		Sens kBtu/h [kW]	24.5 [7.2]	21.0 [6.2]	21.4 [6.3]	28.4 [8.3]	24.4 [7.2]	24.9 [7.3]	32.2 [9.4]	27.6 [8.1]	28.2 [8.3]	
		Power	3.1	3.0	3.1	3.1	3.0	3.1	3.1	3.0	3.0	
	110°F [43.3°C]	Total kBtu/h [kW]	38.9 [11.4]	36.5 [10.7]	36.8 [10.8]	35.8 [10.5]	33.6. [9.8]	33.9. [9.9]	32.6. [9.6]	30.6 [9.0]	30.9. [9.1]	
		Sens kBtu/h [kW]	23.1 [6.8]	19.8 [5.8]	20.2 [5.9]	27.1. [7.9]	23.2. [6.8]	23.7. [6.9]	30.9 [9.1]	26.5 [7.8]	27.1 [7.9]	
		Power	3.3	3.2	3.2	3.3	3.2	3.2	3.2	3.1	3.1	
	115°F [46.1°C]	Total kBtu/h [kW]	37.0 [10.8]	34.7 [10.2]	35.0 [10.3]	33.9 [9.9]	31.9. [9.3]	32.1. [9.4]	30.7 [9.0]	28.8 [8.4]	29.1. [8.5]	
		Sens kBtu/h [kW]	21.5 [6.3]	18.5 [5.4]	18.9 [5.5]	25.5. [7.5]	21.9 [6.4]	22.4. [6.6]	29.3 [8.6]	25.1 [7.4]	25.7 [7.5]	
		Power	3.4	3.3	3.3	3.4	3.3	3.3	3.3	3.2	3.3	
	120°F [48.9°C]	Total kBtu/h [kW]	34.9 [10.2]	32.8 [9.6]	33.0 [9.7]	31.8. [9.3]	29.9 [8.8]	30.2. [8.9]	28.6 [8.4]	26.9 [7.9]	27.1 [7.9]	
		Sens kBtu/h [kW]	19.8 [5.8]	17.0 [5.0]	17.3 [5.1]	23.8 [7.0]	20.4. [6.0]	20.8. [6.1]	27.6 [8.1]	23.6 [6.9]	24.2. [7.1]	
		Power	3.5	3.4	3.4	3.5	3.4	3.4	3.5	3.4	3.4	
	125°F [51.7°C]	Total kBtu/h [kW]	32.6 [9.6]	30.6 [9.0]	30.9 [9.1]	29.6 [8.7]	27.8 [8.1]	28.0. [8.2]	26.4 [7.7]	24.7 [7.2]	25.0 [7.3]	
		Sens kBtu/h [kW]	17.8 [5.2]	15.3 [4.5]	15.6 [4.6]	21.8 [6.4]	18.7 [5.5]	19.1 [5.6]	25.6 [7.5]	21.9 [6.4]	22.4 [6.6]	
		Power	3.7	3.6	3.6	3.7	3.6	3.6	3.6	3.5	3.5	

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb
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—RACCYC048

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]			1875 [885]	1450 [684]	1450 [684]	1875 [885]	1450 [684]	1450 [684]	1875 [885]	1450 [684]	1450 [684]	
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75°F [23.9°C]	Total kBtu/h [kW]	63.3 [18.6]	60.1 [17.6]	60.1 [17.6]	58.9 [17.3]	56.0 [16.4]	56.0 [16.4]	55.3 [16.2]	52.5 [15.4]	52.5 [15.4]	
		Sens kBtu/h [kW]	36.8 [10.8]	32.4 [9.5]	32.4 [9.5]	42.7 [12.5]	37.5 [11.0]	37.5 [11.0]	49.4 [14.5]	43.5 [12.7]	43.5 [12.7]	
		Power	3.2	3.1	3.1	3.2	3.1	3.1	3.2	3.1	3.1	
	80°F [26.7°C]	Total kBtu/h [kW]	61.8 [18.1]	58.6 [17.2]	58.6 [17.2]	57.4 [16.8]	54.5 [16.0]	54.5 [16.0]	53.8 [15.8]	51.1 [15.0]	51.1 [15.0]	
		Sens kBtu/h [kW]	35.9 [10.5]	31.6 [9.3]	31.6 [9.3]	41.8 [12.3]	36.8 [10.8]	36.8 [10.8]	48.5 [14.2]	42.7 [12.5]	42.7 [12.5]	
		Power	3.4	3.3	3.3	3.4	3.3	3.3	3.3	3.2	3.2	
	85°F [29.4°C]	Total kBtu/h [kW]	60.2 [17.6]	57.2 [16.8]	57.2 [16.8]	55.8 [16.4]	53.0 [15.5]	53.0 [15.5]	52.2 [15.3]	49.6 [14.5]	49.6 [14.5]	
		Sens kBtu/h [kW]	35.0 [10.3]	30.8 [9.0]	30.8 [9.0]	40.9 [12.0]	36.0 [10.6]	36.0 [10.6]	47.7 [14.0]	41.9 [12.3]	41.9 [12.3]	
		Power	3.5	3.5	3.5	3.5	3.4	3.4	3.5	3.4	3.4	
	90°F [32.2°C]	Total kBtu/h [kW]	58.6 [17.2]	55.7 [16.3]	55.7 [16.3]	54.2 [15.9]	51.5 [15.1]	51.5 [15.1]	50.6 [14.8]	48.1 [14.1]	48.1 [14.1]	
		Sens kBtu/h [kW]	34.1 [10.0]	30.0. [8.8]	30.0 [8.8]	40.0 [11.7]	35.2 [10.3]	35.2 [10.3]	46.8 [13.7]	41.1 [12.0]	41.1 [12.0]	
		Power	3.7	3.6	3.6	3.7	3.6	3.6	3.7	3.6	3.6	
	95°F [35°C]	Total kBtu/h [kW]	57.0 [16.7]	54.1 [15.9]	54.1 [15.9]	52.6 [15.4]	50.0 [14.7]	50.0 [14.7]	49.0 [14.4]	46.5 [13.6]	46.5 [13.6]	
		Sens kBtu/h [kW]	33.2 [9.7]	29.2 [8.6]	29.2. [8.6]	39.1 [11.5]	34.4 [10.1]	34.4 [10.1]	45.8 [13.4]	40.3 [11.8]	40.3 [11.8]	
		Power	3.9	3.8	3.8	3.9	3.8	3.8	3.9	3.8	3.8	
	100°F [37.8°C]	Total kBtu/h [kW]	55.4 [16.2]	52.6 [15.4]	52.6 [15.4]	51.0 [14.9]	48.4 [14.2]	48.4 [14.2]	47.4 [13.9]	45.0 [13.2]	45.0 [13.2]	
		Sens kBtu/h [kW]	32.3 [9.5]	28.4 [8.3]	28.4 [8.3]	38.2 [11.2]	33.6 [9.8]	33.6 [9.8]	44.9 [13.2]	39.5 [11.6]	39.5 [11.6]	
		Power	4.1	4.0	4.0	4.1	4.0	4.0	4.1	4.0	4.0	
	105°F [40.6°C]	Total kBtu/h [kW]	53.8 [15.8]	51.0 [14.9]	51.0 [14.9]	49.4 [14.5]	46.9 [13.7]	46.9 [13.7]	45.8 [13.4]	43.4 [12.7]	43.4 [12.7]	
		Sens kBtu/h [kW]	31.3 [9.2]	27.5 [8.1]	27.5 [8.1]	37.2 [10.9]	32.7 [9.6]	32.7 [9.6]	43.9 [12.9]	38.7 [11.3]	38.7 [11.3]	
		Power	4.4	4.2	4.2	4.3	4.2	4.2	4.3	4.2	4.2	
	110°F [43.3°C]	Total kBtu/h [kW]	52.1 [15.3]	49.5 [14.5]	49.5 [14.5]	47.7 [14.0]	45.3 [13.3]	45.3 [13.3]	44.1 [12.9]	41.9 [12.3]	41.9 [12.3]	
		Sens kBtu/h [kW]	30.3 [8.9]	26.7 [7.8]	26.7 [7.8]	36.2 [10.6]	31.9 [9.3]	31.9 [9.3]	43.0 [12.6]	37.8 [11.1]	37.8 [11.1]	
		Power	4.6	4.5	4.5	4.6	4.4	4.4	4.5	4.4	4.4	
	115°F [46.1°C]	Total kBtu/h [kW]	50.4 [14.8]	47.9 [14.0]	47.9 [14.0]	46.0 [13.5]	43.7 [12.8]	43.7 [12.8]	42.4 [12.4]	40.3 [11.8]	40.3 [11.8]	
		Sens kBtu/h [kW]	29.3 [8.6]	25.8 [7.6]	25.8. [7.6]	35.2 [10.3]	31.0 [9.1]	31.0 [9.1]	42.0 [12.3]	36.9 [10.8]	36.9 [10.8]	
		Power	4.8	4.7	4.7	4.8	4.7	4.7	4.8	4.7	4.7	
	120°F [48.9°C]	Total kBtu/h [kW]	48.7 [14.3]	46.3 [13.6]	46.3 [13.6]	44.3 [13.0]	42.1 [12.3]	42.1 [12.3]	40.7 [11.9]	38.7 [11.3]	38.7 [11.3]	
		Sens kBtu/h [kW]	28.3 [8.3]	24.9 [7.3]	24.9 [7.3]	34.2 [10.0]	30.1. [8.8]	30.1 [8.8]	40.7 [11.9]	36.0 [10.6]	36.0 [10.6]	
		Power	5.1	5.0	5.0	5.1	4.9	4.9	5.1	4.9	4.9	
	125°F [51.7°C]	Total kBtu/h [kW]	47.0 [13.8]	44.7 [13.1]	44.7 [13.1]	42.6 [12.5]	40.5 [11.9]	40.5 [11.9]	39.0 [11.4]	37.1 [10.9]	37.1 [10.9]	
		Sens kBtu/h [kW]	27.3 [8.0]	24.0 [7.0]	24.0 [7.0]	33.2 [9.7]	29.2 [8.6]	29.2. [8.6]	39.0 [11.4]	35.1 [10.3]	35.1 [10.3]	
		Power	5.4	5.2	5.2	5.4	5.2	5.2	5.3	5.2	5.2	

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb
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—RACCYC060

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]			2225 [1050]	1850 [873]	1725 [814]	2225 [1050]	1850 [873]	1725 [814]	2225 [1050]	1850 [873]	1725 [814]	
DR ①			.05	.09	.12	.05	.09	.12	.05	.09	.12	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75°F [23.9°C]	Total kBtu/h [kW]	76.1 [22.3]	73.4 [21.5]	72.5 [21.2]	68.8 [20.2]	66.3 [19.4]	65.5 [19.2]	63.7 [18.7]	61.5 [18.0]	60.7 [17.8]	
		Sens kBtu/h [kW]	43.5 [12.7]	39.8 [11.7]	38.5 [11.3]	50.0 [14.7]	45.7 [13.4]	44.3 [13.0]	56.3 [16.5]	51.5 [15.1]	49.8 [14.6]	
		Power	4.2	4.2	4.1	4.2	4.2	4.1	4.2	4.1	4.1	
	80°F [26.7°C]	Total kBtu/h [kW]	74.4 [21.8]	71.7 [21.0]	70.9 [20.8]	6.07 [19.6]	64.6 [18.9]	63.9 [18.7]	62.0 [18.2]	59.8 [17.5]	59 [17.3]	
		Sens kBtu/h [kW]	42.6 [12.5]	38.9 [11.4]	37.7 [11.0]	49.1 [14.4]	44.9 [13.2]	43.5 [12.7]	55.4 [16.2]	50.6 [14.8]	49 [14.4]	
		Power	4.4	4.4	4.3	4.4	4.4	4.3	4.4	4.3	4.3	
	85°F [29.4°C]	Total kBtu/h [kW]	72.6 [21.3]	70.0 [20.5]	69.1 [20.3]	65.2 [19.1]	62.9 [18.4]	62.1 [18.2]	60.1 [17.6]	58.0 [17.0]	57.3 [16.8]	
		Sens kBtu/h [kW]	41.7 [12.2]	38.1 [11.2]	36.9 [10.8]	48.2 [14.1]	44.0 [12.9]	42.6 [12.5]	54.5 [16.0]	49.8 [14.6]	48.2 [14.1]	
		Power	4.7	4.6	4.6	4.7	4.6	4.6	4.6	4.5	4.5	
	90°F [32.2°C]	Total kBtu/h [kW]	70.7 [20.7]	68.2 [20.0]	67.3 [19.7]	63.3 [18.6]	61.1 [17.9]	60.3 [17.7]	58.3 [17.1]	56.2 [16.5]	55.5 [16.3]	
		Sens kBtu/h [kW]	40.7 [11.9]	37.2 [10.9]	36.0 [10.6]	47.2 [13.8]	43.1 [12.6]	41.8 [12.3]	53.5 [15.7]	48.9 [14.3]	47.3 [13.9]	
		Power	4.9	4.8	4.8	4.9	4.8	4.8	4.8	4.7	4.7	
	95°F [35°C]	Total kBtu/h [kW]	68.7 [20.1]	66.3 [19.4]	65.5 [19.2]	61.4 [18.0]	59.2 [17.4]	58.5 [17.1]	56.3 [16.5]	54.3 [15.9]	53.6 [15.7]	
		Sens kBtu/h [kW]	39.6 [11.6]	36.2 [10.6]	35.1 [10.3]	46.2 [13.5]	42.2 [12.4]	40.8 [12.0]	52.4 [15.4]	47.9 [14.0]	46.4 [13.6]	
		Power	5.1	5.0	5.0	5.1	5.0	5.0	5.1	5.0	4.9	
	100°F [37.8°C]	Total kBtu/h [kW]	66.7 [19.5]	64.4 [18.9]	63.6 [18.6]	59.4 [17.4]	57.3 [16.8]	56.6 [16.6]	54.3 [15.9]	52.4 [15.4]	51.7 [15.2]	
		Sens kBtu/h [kW]	38.5 [11.3]	35.2 [10.3]	34.1 [10.0]	45.1 [13.2]	41.2 [12.1]	39.9 [11.7]	51.4 [15.1]	46.9 [13.7]	45.4 [13.3]	
		Power	5.3	5.2	5.2	5.3	5.2	5.2	5.3	5.2	5.1	
	105°F [40.6°C]	Total kBtu/h [kW]	64.7 [19]	62.4 [18.3]	61.6 [18.1]	57.3 [16.8]	55.3 [16.2]	54.6 [16.0]	52.2 [15.3]	50.4 [14.8]	49.8 [14.6]	
		Sens kBtu/h [kW]	37.4 [11]	34.2 [10.0]	33.1 [9.7]	43.9 [12.9]	40.1 [11.8]	38.9 [11.4]	50.2 [14.7]	45.9 [13.5]	44.4 [13.0]	
		Power	5.5	5.4	5.4	5.5	5.4	5.4	5.5	5.4	5.4	
	110°F [43.3°C]	Total kBtu/h [kW]	62.5 [18.3]	60.3 [17.7]	59.6 [17.5]	55.2 [16.2]	53.2 [15.6]	52.6 [15.4]	50.1 [14.7]	48.3 [14.2]	47.7 [14.0]	
		Sens kBtu/h [kW]	36.2 [10.6]	33.1. [9.7]	32.0 [9.4]	42.7 [12.5]	39.1 [11.5]	37.8 [11.1]	49.0 [14.4]	44.8 [13.1]	43.4 [12.7]	
		Power	5.8	5.7	5.6	5.7	5.6	5.6	5.7	5.6	5.6	
	115°F [46.1°C]	Total kBtu/h [kW]	60.3 [17.7]	58.2 [17.1]	57.5 [16.9]	53 [15.5]	51.1 [15.0]	50.5 [14.8]	47.9 [14.0]	46.2 [13.5]	45.7 [13.4]	
		Sens kBtu/h [kW]	35.0 [10.3]	32.0 [9.4]	31.0 [9.1]	41.5 [12.2]	37.9 [11.1]	36.7 [10.8]	47.8 [14.0]	43.7 [12.8]	42.3 [12.4]	
		Power	6.0	5.9	5.8	6.0	5.9	5.8	5.9	5.8	5.8	
	120°F [48.9°C]	Total kBtu/h [kW]	58.1 [17.0]	56.0 [16.4]	55.3 [16.2]	50.7 [14.9]	48.9 [14.3]	48.3 [14.2]	45.7 [13.4]	44.0 [12.9]	43.5 [12.7]	
		Sens kBtu/h [kW]	33.7 [9.9]	30.8 [9.0]	29.8 [8.7]	40.2 [11.8]	36.8 [10.8]	35.6 [10.4]	45.7 [13.4]	42.5 [12.5]	41.2 [12.1]	
		Power	6.2	6.1	6.0	6.2	6.1	6.0	6.1	6.0	6.0	
	125°F [51.7°C]	Total kBtu/h [kW]	55.8 [16.4]	53.8 [15.8]	53.1 [15.6]	48.4 [14.2]	46.7 [13.7]	46.1 [13.5]	43.4 [12.7]	41.8 [12.3]	41.3 [12.1]	
		Sens kBtu/h [kW]	32.4 [9.5]	29.6 [8.7]	28.6 [8.4]	38.9 [11.4]	35.5 [10.4]	34.4 [10.1]	43.4 [12.7]	41.3 [12.1]	40.0 [11.7]	
		Power	6.4	6.3	6.3	6.4	6.3	6.3	6.4	6.2	6.2	

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb
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 (HIGH HUMIDIDRY MODE)—RACCYB036

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]			1350 [637]	1168 [551]	1050 [496]	1350 [637]	1168 [551]	1050 [496]	1350 [637]	1168 [551]	1050 [496]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60°F [15.6°C]	Total kBtu/h [kW]	18.7 [5.5]	18.1 [5.3]	17.8 [5.2]	18.4 [5.4]	17.9 [5.3]	17.6 [5.2]	17.3 [5.1]	16.8 [4.9]	16.5 [4.8]	
		Sens kBtu/h [kW]	2.8 [0.8]	2.6 [0.8]	2.5 [0.7]	4.7 [1.4]	4.4 [1.3]	4.2 [1.2]	5.9 [1.7]	5.5 [1.6]	5.3 [1.5]	
		Power	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	
	70°F [21.1°C]	Total kBtu/h [kW]	16.9 [5.0]	16.5 [4.8]	16.2 [4.7]	16.7 [4.9]	16.3 [4.8]	16.0 [4.7]	15.6 [4.6]	15.2 [4.4]	14.9 [4.4]	
		Sens kBtu/h [kW]	1.8 [0.5]	1.7 [0.5]	1.6 [0.5]	3.7 [1.1]	3.5 [1.0]	3.3 [1.0]	4.9 [1.4]	4.6 [1.3]	4.4 [1.3]	
		Power	2.1	2.0	2.0	2.1	2.0	2.0	2.1	2.1	2.0	
	80°F [26.7°C]	Total kBtu/h [kW]	15.0 [4.4]	14.6 [4.3]	14.3 [4.2]	14.8 [4.3]	14.4 [4.2]	14.1 [4.1]	13.7 [4.0]	13.3 [3.9]	13.0 [3.8]	
		Sens kBtu/h [kW]	0.4 [0.1]	0.4 [0.1]	0.4 [0.1]	2.4 [0.7]	2.2 [0.7]	2.1 [0.6]	3.6 [1.1]	3.3 [1.0]	3.2 [0.9]	
		Power	2.2	2.1	2.1	2.2	2.1	2.1	2.2	2.2	2.1	
	90°F [32.2°C]	Total kBtu/h [kW]	12.8 [3.8]	12.5 [3.7]	12.3 [3.6]	12.6 [3.7]	12.3 [3.6]	12.0 [3.5]	11.5 [3.4]	11.2 [3.3]	11.0 [3.2]	
		Sens kBtu/h [kW]	-1.2 [-0.4]	-1.2 [-0.3]	-1.1 [-0.3]	0.7 [0.2]	0.7 [0.2]	0.6 [0.2]	1.9 [0.6]	1.8 [0.5]	1.7 [0.5]	
		Power	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
	100°F [37.8°C]	Total kBtu/h [kW]	10.4 [3.1]	10.1 [3.0]	10.0 [2.9]	10.2 [3.0]	9.9 [2.9]	9.8 [2.9]	9.1 [2.7]	8.8 [2.6]	8.7 [2.5]	
		Sens kBtu/h [kW]	-3.2 [-0.9]	-3.0 [-0.9]	-2.9 [-0.8]	-1.3 [-0.4]	-1.2 [-0.4]	-1.1 [-0.3]	-0.1 [0.0]	-0.1 [0.0]	-0.1 [0.0]	
		Power	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
	110°F [43.3°C]	Total kBtu/h [kW]	7.8 [2.3]	7.6 [2.2]	7.4 [2.2]	7.6 [2.2]	7.4 [2.2]	7.2 [2.1]	6.5 [1.9]	6.3 [1.8]	6.2 [1.8]	
		Sens kBtu/h [kW]	-5.6 [-1.6]	-5.2 [-1.5]	-5.0 [-1.5]	-3.6 [-1.1]	-3.4 [-1.0]	-3.2 [-0.9]	-2.4 [-0.7]	-2.3 [-0.7]	-2.1 [-0.6]	
		Power	2.8	2.7	2.7	2.8	2.7	2.7	2.8	2.8	2.7	
	120°F [48.9°C]	Total kBtu/h [kW]	4.9 [1.4]	4.8 [1.4]	4.7 [1.4]	4.7 [1.4]	4.6 [1.3]	4.5 [1.3]	3.6 [1.1]	3.5 [1.0]	3.4 [1.0]	
		Sens kBtu/h [kW]	-8.2 [-2.4]	-7.7 [-2.3]	-7.3 [-2.1]	-6.3 [-1.8]	-5.9 [-1.7]	-5.6 [-1.6]	-5.1 [-1.5]	-4.7 [-1.4]	-4.5 [-1.3]	
		Power	3.1	3.1	3.0	3.1	3.0	3.0	3.1	3.1	3.0	

GROSS SYSTEMS PERFORMANCE DATA (HIGH HUMIDIDRY MODE)—RACCYB048

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]	1519 [717]	1400 [661]	1800 [850]	1519 [717]	1400 [661]	1800 [850]	1519 [717]	1400 [661]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60°F [15.6°C]	Total kBtu/h [kW]	25.5 [7.5]	24.7 [7.2]	24.3 [7.1]	24.3 [7.1]	23.5 [6.9]	23.2 [6.8]	22.6 [6.6]	21.8 [6.4]	21.5 [6.3]	
		Sens kBtu/h [kW]	2.6 [0.8]	2.4 [0.7]	2.3 [0.7]	5.2 [1.5]	4.8 [1.4]	4.6 [1.4]	6.7 [2.0]	6.1 [1.8]	5.9 [1.7]	
		Power	2.5	2.4	2.4	2.5	2.5	2.5	2.4	2.4	2.4	
	70°F [21.1°C]	Total kBtu/h [kW]	24.1 [7.1]	23.3 [6.8]	23.0 [6.7]	22.9 [6.7]	22.2 [6.5]	21.8 [6.4]	21.2 [6.2]	20.5 [6.0]	20.2 [5.9]	
		Sens kBtu/h [kW]	1.9 [0.6]	1.8 [0.5]	1.7 [0.5]	4.5 [1.3]	4.2 [1.2]	4.0 [1.2]	6.0 [1.8]	5.5 [1.6]	5.3 [1.6]	
		Power	2.6	2.5	2.5	2.7	2.6	2.6	2.6	2.5	2.5	
	80°F [26.7°C]	Total kBtu/h [kW]	22.1 [6.5]	21.4 [6.3]	21.1 [6.2]	20.9 [6.1]	20.2 [5.9]	20.0 [5.8]	19.2 [5.6]	18.6 [5.4]	18.3 [5.4]	
		Sens kBtu/h [kW]	0.4 [0.1]	0.4 [0.1]	0.4 [0.1]	3.0 [0.9]	2.8 [0.8]	2.7 [0.8]	4.5 [1.3]	4.1 [1.2]	4.0 [1.2]	
		Power	2.8	2.7	2.7	2.8	2.8	2.8	2.7	2.7	2.7	
	90°F [32.2°C]	Total kBtu/h [kW]	19.5 [5.7]	18.9 [5.5]	18.6 [5.5]	18.3 [5.4]	17.7 [5.2]	17.5 [5.1]	16.6 [4.9]	16.1 [4.7]	15.8 [4.6]	
		Sens kBtu/h [kW]	-1.9 [-0.5]	-1.7 [-0.5]	-1.7 [-0.5]	0.7 [0.2]	0.7 [0.2]	0.6 [0.2]	2.2 [0.6]	2.0 [0.6]	1.9 [0.6]	
		Power	3.0	2.9	2.9	3.0	3.0	3.0	3.0	2.9	2.9	
	100°F [37.8°C]	Total kBtu/h [kW]	16.4 [4.8]	15.8 [4.6]	15.6 [4.6]	15.2 [4.4]	14.7 [4.3]	14.5 [4.2]	13.4 [3.9]	13.0 [3.8]	12.8 [3.8]	
		Sens kBtu/h [kW]	-5.0 [-1.5]	-4.6 [-1.4]	-4.4 [-1.3]	-2.4 [-0.7]	-2.2 [-0.7]	-2.1 [-0.6]	-0.9 [-0.3]	-0.9 [-0.3]	-0.8 [-0.2]	
		Power	3.3	3.2	3.2	3.3	3.3	3.3	3.2	3.2	3.2	
	110°F [43.3°C]	Total kBtu/h [kW]	12.6 [3.7]	12.2 [3.6]	12.0 [3.5]	11.4 [3.3]	11.0 [3.2]	10.9 [3.2]	9.7 [2.8]	9.4 [2.7]	9.2 [2.7]	
		Sens kBtu/h [kW]	-9.0 [-2.6]	-8.3 [-2.4]	-8.0 [-2.3]	-6.4 [-1.9]	-5.9 [-1.7]	-5.6 [-1.7]	-4.9 [-1.4]	-4.5 [-1.3]	-4.3 [-1.3]	
		Power	3.6	3.6	3.5	3.7	3.6	3.6	3.6	3.5	3.5	
	120°F [48.9°C]	Total kBtu/h [kW]	8.2 [2.4]	8.0 [2.3]	7.9 [2.3]	7.1 [2.1]	6.8 [2.0]	6.7 [2.0]	5.3 [1.6]	5.2 [1.5]	5.1 [1.5]	
		Sens kBtu/h [kW]	-13.7 [-4.0]	-12.7 [-3.7]	-12.2 [-3.6]	-11.1 [-3.3]	-10.3 [-3.0]	-9.9 [-2.9]	-9.7 [-2.8]	-8.9 [-2.6]	-8.6 [-2.5]	
		Power	4.0	4.0	3.9	4.1	4.0	4.0	4.0	3.9	3.9	

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb
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 (HIGH HUMIDIDRY MODE)—RACCYB060

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]			2250 [1062]	1825 [861]	1750 [826]	2250 [1062]	1825 [861]	1750 [826]	2250 [1062]	1825 [861]	1750 [826]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60°F [15.6°C]	Total kBtu/h [kW]	29.1 [8.5]	27.9 [8.2]	27.7 [8.1]	28.5 [8.3]	27.3 [8.0]	27.1 [7.9]	26.6 [7.8]	25.5 [7.5]	25.3 [7.4]	
		Sens kBtu/h [kW]	1.9 [0.5]	1.7 [0.5]	1.7 [0.5]	5.1 [1.5]	4.6 [1.3]	4.5 [1.3]	7.9 [2.3]	7.1 [2.1]	7.0 [2.1]	
		Power	3.5	3.5	3.5	3.5	3.5	3.4	3.5	3.5	3.5	
	70°F [21.1°C]	Total kBtu/h [kW]	27.5 [8.0]	26.3 [7.7]	26.2 [7.7]	26.8 [7.9]	25.7 [7.5]	25.5 [7.5]	24.9 [7.3]	23.9 [7.0]	23.7 [7.0]	
		Sens kBtu/h [kW]	0.6 [0.2]	0.6 [0.2]	0.6 [0.2]	3.8 [1.1]	3.4 [1.0]	3.4 [1.0]	6.7 [2.0]	6.0 [1.8]	5.9 [1.7]	
		Power	3.6	3.6	3.6	3.6	3.6	3.5	3.6	3.6	3.6	
	80°F [26.7°C]	Total kBtu/h [kW]	25.2 [7.4]	24.2 [7.1]	24.0 [7.0]	24.5 [7.2]	23.5 [6.9]	23.4 [6.8]	22.6 [6.6]	21.7 [6.4]	21.6 [6.3]	
		Sens kBtu/h [kW]	-1.2 [-0.4]	-1.1 [-0.3]	-1.1 [-0.3]	2.0 [0.6]	1.8 [0.5]	1.8 [0.5]	4.8 [1.4]	4.4 [1.3]	4.3 [1.3]	
		Power	3.8	3.8	3.7	3.8	3.7	3.7	3.8	3.8	3.7	
	90°F [32.2°C]	Total kBtu/h [kW]	22.3 [6.5]	21.4 [6.3]	21.2 [6.2]	21.6 [6.3]	20.8 [6.1]	20.6 [6.0]	19.7 [5.8]	18.9 [5.5]	18.8 [5.5]	
		Sens kBtu/h [kW]	-3.6 [-1.1]	-3.3 [-1.0]	-3.2 [-0.9]	-0.4 [-0.1]	-0.4 [-0.1]	-0.4 [-0.1]	2.4 [0.7]	2.2 [0.6]	2.1 [0.6]	
		Power	4.1	4.0	4.0	4.1	4.0	4.0	4.1	4.0	4.0	
	100°F [37.8°C]	Total kBtu/h [kW]	18.7 [5.5]	18.0 [5.3]	17.8 [5.2]	18.1 [5.3]	17.4 [5.1]	17.2 [5.1]	16.2 [4.7]	15.5 [4.6]	15.4 [4.5]	
		Sens kBtu/h [kW]	-6.7 [-1.9]	-6.0 [-1.8]	-5.9 [-1.7]	-3.5 [-1.0]	-3.1 [-0.9]	-3.1 [-0.9]	-0.6 [-0.2]	-0.6 [-0.2]	-0.5 [-0.2]	
		Power	4.5	4.4	4.4	4.5	4.4	4.4	4.5	4.4	4.4	
	110°F [43.3°C]	Total kBtu/h [kW]	14.6 [4.3]	14.0 [4.1]	13.9 [4.1]	13.9 [4.1]	13.4 [3.9]	13.3 [3.9]	12.0 [3.5]	11.6 [3.4]	11.5 [3.4]	
		Sens kBtu/h [kW]	-10.3 [-3.0]	-9.3 [-2.7]	-9.1 [-2.7]	-7.1 [-2.1]	-6.4 [-1.9]	-6.2 [-1.8]	-4.2 [-1.2]	-3.8 [-1.1]	-3.7 [-1.1]	
		Power	5.0	4.9	4.9	5.0	4.9	4.8	5.0	4.9	4.9	
	120°F [48.9°C]	Total kBtu/h [kW]	9.8 [2.9]	9.4 [2.8]	9.3 [2.7]	9.2 [2.7]	8.8 [2.6]	8.7 [2.6]	7.3 [2.1]	7.0 [2.0]	6.9 [2.0]	
		Sens kBtu/h [kW]	-14.5 [-4.2]	-13.0 [-3.8]	-12.8 [-3.7]	-11.3 [-3.3]	-10.2 [-3.0]	-10.0 [-2.9]	-8.4 [-2.5]	-7.6 [-2.2]	-7.4 [-2.2]	
		Power	5.6	5.4	5.4	5.5	5.4	5.4	5.5	5.4	5.4	

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb
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 HUMIDIDRY MODE)—RACCYB072

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]			1710 [807]	1523 [719]	1330 [628]	1710 [807]	1523 [719]	1330 [628]	1710 [807]	1523 [719]	1330 [628]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60°F [15.6°C]	Total kBtu/h [kW]	35.8 [10.5]	35.0 [10.3]	34.2 [10.0]	32.5 [9.5]	31.8 [9.3]	31.0 [9.1]	31.4 [9.2]	30.7 [9.0]	30.0 [8.8]
		Sens kBtu/h [kW]	12.8 [3.7]	12.1 [3.5]	11.4 [3.3]	12.6 [3.7]	12.0 [3.5]	11.3 [3.3]	16.2 [4.8]	15.3 [4.5]	14.4 [4.2]
		Power	2.3	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.2
	65°F [18.3°C]	Total kBtu/h [kW]	34.3 [10.1]	33.6 [9.8]	32.8 [9.6]	31.0 [9.1]	30.3 [8.9]	29.6 [8.7]	30.0 [8.8]	29.3 [8.6]	28.6 [8.4]
		Sens kBtu/h [kW]	11.5 [3.4]	10.8 [3.2]	10.2 [3.0]	11.3 [3.3]	10.7 [3.1]	10.1 [3.0]	14.9 [4.4]	14.1 [4.1]	13.3 [3.9]
		Power	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.3	2.3
	70°F [21.1°C]	Total kBtu/h [kW]	32.6 [9.6]	31.9 [9.4]	31.2 [9.1]	29.4 [8.6]	28.7 [8.4]	28.1 [8.2]	28.3 [8.3]	27.7 [8.1]	27.0 [7.9]
		Sens kBtu/h [kW]	10.0 [2.9]	9.4 [2.8]	8.9 [2.6]	9.8 [2.9]	9.3 [2.7]	8.8 [2.6]	13.4 [3.9]	12.7 [3.7]	11.9 [3.5]
		Power	2.6	2.6	2.5	2.6	2.6	2.6	2.5	2.5	2.5
	75°F [23.9°C]	Total kBtu/h [kW]	30.8 [9.0]	30.1 [8.8]	29.4 [8.6]	27.5 [8.1]	26.9 [7.9]	26.3 [7.7]	26.4 [7.7]	25.8 [7.6]	25.2 [7.4]
		Sens kBtu/h [kW]	8.3 [2.4]	7.9 [2.3]	7.4 [2.2]	8.2 [2.4]	7.7 [2.3]	7.3 [2.1]	11.8 [3.4]	11.1 [3.3]	10.5 [3.1]
		Power	2.8	2.8	2.7	2.8	2.8	2.8	2.7	2.7	2.7
	80°F [26.7°C]	Total kBtu/h [kW]	28.7 [8.4]	28.1 [8.2]	27.4 [8.0]	25.4 [7.4]	24.8 [7.3]	24.3 [7.1]	24.3 [7.1]	23.8 [7.0]	23.3 [6.8]
		Sens kBtu/h [kW]	6.5 [1.9]	6.1 [1.8]	5.8 [1.7]	6.4 [1.9]	6.0 [1.8]	5.7 [1.7]	10.0 [2.9]	9.4 [2.8]	8.9 [2.6]
		Power	3.0	2.9	2.9	3.0	3.0	2.9	2.9	2.9	2.9
	85°F [29.4°C]	Total kBtu/h [kW]	26.4 [7.7]	25.8 [7.6]	25.2 [7.4]	23.1 [6.8]	22.6 [6.6]	22.1 [6.5]	22.0 [6.5]	21.6 [6.3]	21.1 [6.2]
		Sens kBtu/h [kW]	4.5 [1.3]	4.3 [1.3]	4.0 [1.2]	4.4 [1.3]	4.2 [1.2]	3.9 [1.1]	8.0 [2.3]	7.5 [2.2]	7.1 [2.1]
		Power	3.2	3.1	3.1	3.2	3.2	3.1	3.1	3.1	3.1
	90°F [32.2°C]	Total kBtu/h [kW]	23.9 [7.0]	23.4 [6.9]	22.8 [6.7]	20.6 [6.0]	20.2 [5.9]	19.7 [5.8]	19.6 [5.7]	19.1 [5.6]	18.7 [5.5]
		Sens kBtu/h [kW]	2.4 [0.7]	2.2 [0.7]	2.1 [0.6]	2.2 [0.7]	2.1 [0.6]	2.0 [0.6]	5.8 [1.7]	5.5 [1.6]	5.2 [1.5]
		Power	3.4	3.3	3.3	3.4	3.4	3.3	3.3	3.3	3.3

GROSS SYSTEMS PERFORMANCE DATA (HIGH HUMIDIDRY MODE)—RACCYB072

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]			2700 [1274]	2404 [1135]	2100 [991]	2700 [1274]	2404 [1135]	2100 [991]	2700 [1274]	2404 [1135]	2100 [991]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60°F [15.6°C]	Total kBtu/h [kW]	44.6 [13.1]	43.6 [12.8]	42.6 [12.5]	43.0 [12.6]	42.1 [12.3]	41.1 [12.1]	39.3 [11.5]	38.4 [11.3]	37.5 [11.0]
		Sens kBtu/h [kW]	13.3 [3.9]	12.6 [3.7]	11.8 [3.5]	15.5 [4.5]	14.7 [4.3]	13.8 [4.0]	20.2 [5.9]	19.1 [5.6]	18.0 [5.3]
		Power	3.8	3.7	3.7	3.7	3.7	3.6	3.7	3.6	3.6
	70°F [21.1°C]	Total kBtu/h [kW]	42.4 [12.4]	41.5 [12.2]	40.6 [11.9]	40.9 [12.0]	40.0 [11.7]	39.1 [11.5]	37.1 [10.9]	36.3 [10.6]	35.5 [10.4]
		Sens kBtu/h [kW]	11.3 [3.3]	10.7 [3.1]	10.1 [3.0]	13.6 [4.0]	12.8 [3.8]	12.1 [3.5]	18.3 [5.4]	17.3 [5.1]	16.3 [4.8]
		Power	3.9	3.9	3.8	3.9	3.8	3.8	3.8	3.8	3.7
	80°F [26.7°C]	Total kBtu/h [kW]	38.9 [11.4]	38.1 [11.2]	37.2 [10.9]	37.4 [11.0]	36.6 [10.7]	35.7 [10.5]	33.6 [9.9]	32.9 [9.6]	32.1 [9.4]
		Sens kBtu/h [kW]	8.2 [2.4]	7.8 [2.3]	7.3 [2.1]	10.4 [3.1]	9.9 [2.9]	9.3 [2.7]	15.1 [4.4]	14.3 [4.2]	13.5 [4.0]
		Power	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.0	4.0
	90°F [32.2°C]	Total kBtu/h [kW]	34.1 [10.0]	33.3 [9.8]	32.6 [9.5]	32.5 [9.5]	31.8 [9.3]	31.1 [9.1]	28.8 [8.4]	28.1 [8.2]	27.5 [8.1]
		Sens kBtu/h [kW]	3.9 [1.1]	3.7 [1.1]	3.5 [1.0]	6.1 [1.8]	5.8 [1.7]	5.5 [1.6]	10.8 [3.2]	10.2 [3.0]	9.6 [2.8]
		Power	4.5	4.5	4.4	4.5	4.5	4.4	4.4	4.4	4.4
	100°F [37.8°C]	Total kBtu/h [kW]	27.8 [8.2]	27.2 [8.0]	26.6 [7.8]	26.3 [7.7]	25.7 [7.5]	25.1 [7.4]	22.5 [6.6]	22.0 [6.5]	21.5 [6.3]
		Sens kBtu/h [kW]	-1.6 [-0.5]	-1.5 [-0.4]	-1.4 [-0.4]	0.6 [0.2]	0.6 [0.2]	0.6 [0.2]	5.3 [1.6]	5.0 [1.5]	4.7 [1.4]
		Power	5.0	4.9	4.9	5.0	4.9	4.9	4.9	4.9	4.8
	110°F [43.3°C]	Total kBtu/h [kW]	20.2 [5.9]	19.8 [5.8]	19.3 [5.7]	18.7 [5.5]	18.3 [5.4]	17.9 [5.2]	14.9 [4.4]	14.6 [4.3]	14.2 [4.2]
		Sens kBtu/h [kW]	-8.3 [-2.4]	-7.8 [-2.3]	-7.4 [-2.2]	-6.1 [-1.8]	-5.7 [-1.7]	-5.4 [-1.6]	-1.4 [-0.4]	-1.3 [-0.4]	-1.2 [-0.4]
		Power	5.6	5.5	5.4	5.5	5.5	5.4	5.5	5.4	5.3
	120°F [48.9°C]	Total kBtu/h [kW]	11.2 [3.3]	11.0 [3.2]	10.7 [3.1]	9.7 [2.8]	9.5 [2.8]	9.3 [2.7]	5.9 [1.7]	5.8 [1.7]	5.7 [1.7]
		Sens kBtu/h [kW]	-16.2 [-4.7]	-15.3 [-4.5]	-14.4 [-4.2]	-14.0 [-4.1]	-13.2 [-3.9]	-12.4 [-3.6]	-9.3 [-2.7]	-8.8 [-2.6]	-8.2 [-2.4]
		Power	6.2	6.1	6.1	6.2	6.1	6.0	6.1	6.0	6.0

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb
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 HUMIDIDRY MODE)—RACCYC036

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]			900 [425]	760 [359]	705 [333]	900 [425]	760 [359]	705 [333]	900 [425]	760 [359]	705 [333]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60°F [15.6°C]	Total kBtu/h [kW]	12.8 [3.7]	12.4 [3.6]	12.2 [3.6]	13.4 [3.9]	12.9 [3.8]	12.8 [3.7]	13.3 [3.9]	12.8 [3.8]	12.7 [3.7]	
		Sens kBtu/h [kW]	3.1 [0.9]	2.9 [0.8]	2.8 [0.8]	5.0 [1.5]	4.6 [1.3]	4.4 [1.3]	6.8 [2.0]	6.3 [1.8]	6.0 [1.8]	
		Power	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.3	1.3	
	65°F [18.3°C]	Total kBtu/h [kW]	12.2 [3.6]	11.8 [3.5]	11.7 [3.4]	12.8 [3.8]	12.4 [3.6]	12.2 [3.6]	12.7 [3.7]	12.3 [3.6]	12.1 [3.6]	
		Sens kBtu/h [kW]	2.4 [0.7]	2.2. [0.6]	2.1 [0.6]	4.2 [1.2]	3.9 [1.1]	3.8 [1.1]	6.1 [1.8]	5.6 [1.6]	5.4 [1.6]	
		Power	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	
	70°F [21.1°C]	Total kBtu/h [kW]	11.6 [3.4]	11.2 [3.3]	11.1 [3.2]	12.2 [3.6]	11.8 [3.5]	11.7 [3.4]	12.1 [3.5]	11.7 [3.4]	11.5 [3.4]	
		Sens kBtu/h [kW]	1.6 [0.5]	1.5 [0.4]	1.4 [0.4]	3.5 [1.0]	3.2 [0.9]	3.1 [0.9]	5.3 [1.6]	4.9 [1.4]	4.7 [1.4]	
		Power	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	
	75°F [23.9°C]	Total kBtu/h [kW]	10.9 [3.2]	10.5 [3.1]	10.4 [3.0]	11.5 [3.4]	11.1 [3.3]	11.0 [3.2]	11.4 [3.3]	11.0 [3.2]	10.9 [3.2]	
		Sens kBtu/h [kW]	0.8 [0.2]	0.7 [0.2]	0.7 [0.2]	2.7 [0.8]	2.5 [0.7]	2.4 [0.7]	4.5 [1.3]	4.1 [1.2]	4.0 [1.2]	
		Power	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	1.6	
	80°F [26.7°C]	Total kBtu/h [kW]	10.1 [3.0]	9.8 [2.9]	9.7 [2.8]	10.7 [3.1]	10.4 [3.0]	10.2 [3.0]	10.6 [3.1]	10.3 [3.0]	10.1 [3.0]	
		Sens kBtu/h [kW]	-0.1 [0.0]	-0.1 [0.0]	-0.1 [0.0]	1.8 [0.5]	1.7 [0.5]	1.6 [0.5]	3.6 [1.1]	3.3 [1.0]	3.2 [0.9]	
		Power	1.5	1.5	1.5	1.7	1.7	1.7	1.7	1.7	1.7	
	85°F [29.4°C]	Total kBtu/h [kW]	9.3 [2.7]	9.0 [2.6]	8.9 [2.6]	9.9 [2.9]	9.6 [2.8]	9.4 [2.8]	9.8 [2.9]	9.4 [2.8]	9.3 [2.7]	
		Sens kBtu/h [kW]	-1.0 [-0.3]	-0.9 [-0.3]	-0.9 [-0.3]	0.9 [0.3]	0.8 [0.2]	0.8 [0.2]	2.7 [0.8]	2.5 [0.7]	2.4 [0.7]	
		Power	1.6	1.6	1.6	1.8	1.8	1.8	1.8	1.8	1.8	
	90°F [32.2°C]	Total kBtu/h [kW]	8.3 [2.4]	8.1 [2.4]	8.0 [2.3]	8.9 [2.6]	8.7 [2.5]	8.5 [2.5]	8.8 [2.6]	8.5 [2.5]	8.4 [2.5]	
		Sens kBtu/h [kW]	-1.9 [-0.6]	-1.8 [-0.5]	-1.7 [-0.5]	0.0 [0.0]	0.0 [0.0]	0.0 [0.0]	1.8 [0.5]	1.6 [0.5]	1.6 [0.5]	
		Power	1.7	1.7	1.7	1.9	1.9	1.9	1.9	1.9	1.9	

GROSS SYSTEMS PERFORMANCE DATA (HIGH HUMIDIDRY MODE)—RACCYC036

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]			1350 [637]	1055 [498]	1050 [496]	1350 [637]	1055 [498]	1050 [496]	1350 [637]	1055 [498]	1050 [496]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60°F [15.6°C]	Total kBtu/h [kW]	16.3 [4.8]	15.6 [4.6]	15.5 [4.6]	16.1 [4.7]	15.3 [4.5]	15.3 [4.5]	14.8 [4.3]	14.1 [4.1]	14.1 [4.1]	
		Sens kBtu/h [kW]	0.2 [0.0]	0.1 [0.0]	0.1 [0.0]	1.8 [0.5]	1.6 [0.5]	1.6 [0.5]	3.2 [0.9]	2.8 [0.8]	2.8 [0.8]	
		Power	2.1	2.0	2.0	2.2	2.1	2.1	2.1	2.0	2.0	
	70°F [21.1°C]	Total kBtu/h [kW]	15.6 [4.6]	14.9 [4.4]	14.9 [4.4]	15.4 [4.5]	14.6 [4.3]	14.6 [4.3]	14.1 [4.1]	13.4 [3.9]	13.4 [3.9]	
		Sens kBtu/h [kW]	-0.5 [-0.1]	-0.4 [-0.1]	-0.4 [-0.1]	1.1 [0.3]	1.0 [0.3]	1.0 [0.3]	2.5 [0.7]	2.2 [0.7]	2.2 [0.7]	
		Power	2.2	2.1	2.1	2.3	2.2	2.2	2.2	2.1	2.1	
	80°F [26.7°C]	Total kBtu/h [kW]	14.6 [4.3]	13.8 [4.1]	13.8 [4.1]	14.3 [4.2]	13.6 [4.0]	13.6 [4.0]	13.0 [3.8]	12.4 [3.6]	12.4 [3.6]	
		Sens kBtu/h [kW]	-1.5 [-0.4]	-1.4 [-0.4]	-1.4 [-0.4]	0.1 [0.0]	0.1 [0.0]	0.1 [0.0]	1.5 [0.4]	1.3 [0.4]	1.3 [0.4]	
		Power	2.3	2.3	2.3	2.4	2.4	2.4	2.3	2.3	2.3	
	90°F [32.2°C]	Total kBtu/h [kW]	13.1 [3.8]	12.5 [3.7]	12.4 [3.6]	12.8 [3.8]	12.2 [3.6]	12.2 [3.6]	11.6 [3.4]	11.0 [3.2]	11.0 [3.2]	
		Sens kBtu/h [kW]	-2.9 [-0.9]	-2.6 [-0.8]	-2.6 [-0.8]	-1.3 [-0.4]	-1.1 [-0.3]	-1.1 [-0.3]	0.1 [0.0]	0.1 [0.0]	0.1 [0.0]	
		Power	2.5	2.4	2.4	2.6	2.5	2.5	2.5	2.4	2.4	
	100°F [37.8°C]	Total kBtu/h [kW]	11.3 [3.3]	10.7 [3.1]	10.7 [3.1]	11.0 [3.2]	10.5 [3.1]	10.4 [3.1]	9.7 [2.8]	9.3 [2.7]	9.2 [2.7]	
		Sens kBtu/h [kW]	-4.7 [-1.4]	-4.1 [-1.2]	-4.1 [-1.2]	-3.0 [-0.9]	-2.7 [-0.8]	-2.7 [-0.8]	-1.6 [-0.5]	-1.4 [-0.4]	-1.4 [-0.4]	
		Power	2.7	2.6	2.6	2.8	2.7	2.7	2.7	2.6	2.6	
	110°F [43.3°C]	Total kBtu/h [kW]	9.1 [2.7]	8.6 [2.5]	8.6 [2.5]	8.8 [2.6]	8.4 [2.5]	8.4 [2.4]	7.5 [2.2]	7.2 [2.1]	7.2 [2.1]	
		Sens kBtu/h [kW]	-6.8 [-2.0]	-6.0 [-1.8]	-6.0 [-1.8]	5.1 [-1.5]	-4.5 [-1.3]	-4.5 [-1.3]	-3.8 [-1.1]	-3.3 [-1.0]	-3.3 [-1.0]	
		Power	2.9	2.8	2.8	3.0	2.9	2.9	2.9	2.8	2.8	
	120°F [48.9°C]	Total kBtu/h [kW]	6.5 [1.9]	6.2 [1.8]	6.2 [1.8]	6.2 [1.8]	5.9 [1.7]	5.9 [1.7]	4.9 [1.4]	4.7 [1.4]	4.7 [1.4]	
		Sens kBtu/h [kW]	-9.3 [-2.7]	-8.2 [-2.4]	-8.2 [-2.4]	-7.6 [-2.2]	-6.7 [-2.0]	-6.7 [-2.0]	-6.2 [-1.8]	-5.5 [-1.6]	-5.5 [-1.6]	
		Power	3.1	3.1	3.1	3.2	3.1	3.1	3.1	3.0	3.0	

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb
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 HUMIDIDRY MODE)—RACCYC048

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]			1200 [566]	875 [413]	940 [444]	1200 [566]	875 [413]	940 [444]	1200 [566]	875 [413]	940 [444]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60°F [15.6°C]	Total kBtu/h [kW]	15.0 [4.4]	14.1 [4.1]	14.2 [4.2]	13.1 [3.8]	12.2 [3.6]	12.4 [3.6]	14.5 [4.3]	13.6 [4.0]	13.8 [4.0]	
		Sens kBtu/h [kW]	0.3 [0.1]	0.3 [0.1]	0.3 [0.1]	0.4 [0.1]	0.4 [0.1]	0.4 [0.1]	4.0 [1.2]	3.4 [1.0]	3.6 [1.0]	
		Power	2.4	2.3	2.3	2.4	2.3	2.4	2.1	2.0	2.0	
	65°F [18.3°C]	Total kBtu/h [kW]	16.1 [4.7]	15.1 [4.4]	15.3 [4.5]	14.1 [4.1]	13.2 [3.9]	13.4 [3.9]	15.6 [4.6]	14.6 [4.3]	14.8 [4.3]	
		Sens kBtu/h [kW]	1.5 [0.4]	1.3 [0.4]	1.3 [0.4]	1.6 [0.5]	1.3 [0.4]	1.4 [0.4]	5.2 [1.5]	4.4 [1.3]	4.5 [1.3]	
		Power	2.2	2.1	2.1	2.2	2.2	2.2	1.9	1.8	1.8	
	70°F [21.1°C]	Total kBtu/h [kW]	16.8 [4.9]	15.7 [4.6]	15.9 [4.7]	14.8 [4.3]	13.9 [4.1]	14.1 [4.1]	16.3 [4.8]	15.3 [4.5]	15.5 [4.5]	
		Sens kBtu/h [kW]	2.2 [0.6]	1.9 [0.6]	2.0 [0.6]	2.3 [0.7]	2.0 [0.6]	2.0 [0.6]	5.9 [1.7]	5.0 [1.5]	5.2 [1.5]	
		Power	2.1	2.0	2.0	2.1	2.1	2.1	1.8	1.7	1.7	
	75°F [23.9°C]	Total kBtu/h [kW]	17.1 [5.0]	16.0 [4.7]	16.2 [4.8]	15.1 [4.4]	14.2 [4.2]	14.4 [4.2]	16.6 [4.9]	15.6 [4.6]	15.8 [4.6]	
		Sens kBtu/h [kW]	2.6 [0.8]	2.2 [0.6]	2.3 [0.7]	2.7 [0.8]	2.3 [0.7]	2.4 [0.7]	6.3 [1.8]	5.3 [1.6]	5.5 [1.6]	
		Power	2.0	1.9	1.9	2.0	2.0	2.0	1.7	1.6	1.7	
	80°F [26.7°C]	Total kBtu/h [kW]	17.0 [5.0]	16.0 [4.7]	16.2 [4.7]	15.1 [4.4]	14.1 [4.1]	14.3 [4.2]	16.6 [4.9]	15.5 [4.6]	15.7 [4.6]	
		Sens kBtu/h [kW]	2.6 [0.8]	2.2 [0.6]	2.3 [0.7]	2.7 [0.8]	2.3 [0.7]	2.3 [0.7]	6.2 [1.8]	5.3 [1.6]	5.5 [1.6]	
		Power	2.0	1.9	1.9	2.0	2.0	2.0	1.7	1.6	1.6	
	85°F [29.4°C]	Total kBtu/h [kW]	16.6 [4.9]	15.6 [4.6]	15.8 [4.6]	14.7 [4.3]	13.7 [4.0]	13.9 [4.1]	16.1 [4.7]	15.1 [4.4]	15.3 [4.5]	
		Sens kBtu/h [kW]	2.2 [0.6]	1.8 [0.5]	1.9 [0.6]	2.3 [0.7]	1.9 [0.6]	2.0 [0.6]	5.8 [1.7]	5.0 [1.5]	5.2 [1.5]	
		Power	2.0	1.9	1.9	2.0	2.0	2.0	1.7	1.6	1.7	
	90°F [32.2°C]	Total kBtu/h [kW]	15.8 [4.6]	14.8 [4.3]	15.0 [4.4]	13.8 [4.1]	13.0 [3.8]	13.1 [3.8]	15.3 [4.5]	14.4 [4.2]	14.6 [4.3]	
		Sens kBtu/h [kW]	1.4 [0.4]	1.2 [0.3]	1.2 [0.4]	1.5 [0.4]	1.3 [0.4]	1.3 [0.4]	5.1 [1.5]	4.3 [1.3]	4.5 [1.3]	
		Power	2.1	2.0	2.0	2.1	2.1	2.1	1.8	1.7	1.7	

GROSS SYSTEMS PERFORMANCE DATA (HIGH HUMIDIDRY MODE)—RACCYC048

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]	1460 [689]	1400 [661]	1800 [850]	1460 [689]	1400 [661]	1800 [850]	1460 [689]	1400 [661]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60°F [15.6°C]	Total kBtu/h [kW]	25.4 [7.4]	24.3 [7.1]	24.1 [7.1]	24.6 [7.2]	23.6 [6.9]	23.4 [6.9]	21.6 [6.3]	20.7 [6.1]	20.5 [6.0]	
		Sens kBtu/h [kW]	6.8 [2.0]	6.1 [1.8]	6.0 [1.8]	7.1 [2.1]	6.4 [1.9]	6.3 [1.9]	4.6 [1.4]	4.2 [1.2]	4.1 [1.2]	
		Power	2.5	2.5	2.5	2.4	2.4	2.4	2.2	2.2	2.2	
	70°F [21.1°C]	Total kBtu/h [kW]	23.5 [6.9]	22.5 [6.6]	22.4 [6.6]	22.7 [6.7]	21.8 [6.4]	21.6 [6.3]	19.7 [5.8]	18.9 [5.5]	18.7 [5.5]	
		Sens kBtu/h [kW]	5.4 [1.6]	4.9 [1.4]	4.8 [1.4]	5.7 [1.7]	5.2 [1.5]	5.1 [1.5]	3.2 [1.0]	2.9 [0.9]	2.9 [0.8]	
		Power	2.7	2.6	2.6	2.6	2.6	2.5	2.4	2.4	2.4	
	80°F [26.7°C]	Total kBtu/h [kW]	21.4 [6.3]	20.5 [6.0]	20.4 [6]	20.6 [6.1]	19.8 [5.8]	19.7 [5.8]	17.6 [5.2]	16.9 [4.9]	16.8 [4.9]	
		Sens kBtu/h [kW]	3.7 [1.1]	3.4 [1.0]	3.3 [1]	4.1 [1.2]	3.7 [1.1]	3.6 [1.1]	1.6 [0.5]	1.4 [0.4]	1.4 [0.4]	
		Power	2.9	2.9	2.9	2.9	2.8	2.8	2.7	2.6	2.6	
	90°F [32.2°C]	Total kBtu/h [kW]	19.1 [5.6]	18.3 [5.4]	18.2 [5.3]	18.4 [5.4]	17.6 [5.2]	17.5 [5.1]	15.3 [4.5]	14.7 [4.3]	14.6 [4.3]	
		Sens kBtu/h [kW]	1.8 [0.5]	1.6 [0.5]	1.6 [0.5]	2.1 [0.6]	1.9 [0.6]	1.9 [0.5]	-0.4 [-0.1]	-0.4 [-0.1]	-0.3 [-0.1]	
		Power	3.3	3.2	3.2	3.2	3.1	3.1	3.0	2.9	2.9	
	100°F [37.8°C]	Total kBtu/h [kW]	16.6 [4.9]	16.0 [4.7]	15.8 [4.6]	15.9 [4.7]	15.2 [4.5]	15.1 [4.4]	12.8 [3.8]	12.3 [3.6]	12.2 [3.6]	
		Sens kBtu/h [kW]	-0.5 [-0.1]	-0.4 [-0.1]	-0.4 [-0.1]	-0.1 [0.0]	-0.1 [0.0]	-0.1 [0.0]	-2.6 [-0.8]	-2.4 [-0.7]	-2.3 [-0.7]	
		Power	3.7	3.6	3.6	3.6	3.5	3.5	3.4	3.3	3.3	
	110°F [43.3°C]	Total kBtu/h [kW]	14.0 [4.1]	13.4 [3.9]	13.3 [3.9]	13.2 [3.9]	12.7 [3.7]	12.6 [3.7]	10.2 [3.0]	9.7 [2.9]	9.7 [2.8]	
		Sens kBtu/h [kW]	-3.0 [-0.9]	-2.7 [-0.8]	-2.7 [-0.8]	-2.7 [-0.8]	-2.4 [-0.7]	-2.3 [-0.7]	-5.2 [-1.5]	-4.7 [-1.4]	-4.6 [-1.3]	
		Power	4.2	4.1	4.1	4.1	4	4	3.9	3.8	3.8	
	120°F [48.9°C]	Total kBtu/h [kW]	11.1 [3.2]	10.6 [3.1]	10.6 [3.1]	10.3 [3.0]	9.9 [2.9]	9.8 [2.9]	7.3 [2.1]	7.0 [2.0]	6.9 [2.0]	
		Sens kBtu/h [kW]	-5.8 [-1.7]	-5.2 [-1.5]	-5.1 [-1.5]	-5.5 [-1.6]	-4.9 [-1.4]	-4.8 [-1.4]	-8.0 [-2.3]	-7.2 [-2.1]	-7.0 [-2.1]	
		Power	4.7	4.7	4.6	4.7	4.6	4.5	4.5	4.4	4.4	

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb
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 HUMIDIDRY MODE)—RACCYC060

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]			1500 [708]	1215 [573]	1175 [555]	1500 [708]	1215 [573]	1175 [555]	1500 [708]	1215 [573]	1175 [555]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60°F [15.6°C]	Total kBtu/h [kW]	26.3 [7.7]	25.3 [7.4]	25.1 [7.4]	24.8 [7.3]	23.8 [7.0]	23.7 [6.9]	24.0 [7.0]	23.1 [6.8]	22.9 [6.7]
		Sens kBtu/h [kW]	7.2 [2.1]	6.5 [1.9]	6.4 [1.9]	8.1 [2.4]	7.3 [2.1]	7.2 [2.1]	10.0 [2.9]	9.0 [2.6]	8.9 [2.6]
		Power	1.9	1.9	1.9	1.9	1.9	1.9	2.3	2.3	2.3
	65°F [18.3°C]	Total kBtu/h [kW]	25.7 [7.5]	24.7 [7.2]	24.5 [7.2]	24.2 [7.1]	23.2 [6.8]	23.1 [6.8]	23.4 [6.9]	22.5 [6.6]	22.3 [6.5]
		Sens kBtu/h [kW]	6.8 [2.0]	6.1 [1.8]	6.0 [1.8]	7.7 [2.3]	7.0 [2.0]	6.9 [2.0]	9.6 [2.8]	8.7 [2.5]	8.5 [2.5]
		Power	2.0	1.9	1.9	2.0	2.0	2.0	2.4	2.4	2.3
	70°F [21.1°C]	Total kBtu/h [kW]	25.0 [7.3]	24.0 [7.0]	23.8 [7.0]	23.5 [6.9]	22.5 [6.6]	22.4 [6.6]	22.7 [6.6]	21.8 [6.4]	21.6 [6.3]
		Sens kBtu/h [kW]	6.3 [1.9]	5.7 [1.7]	5.6 [1.6]	7.2 [2.1]	6.5 [1.9]	6.4 [1.9]	9.1 [2.7]	8.2 [2.4]	8.1 [2.4]
		Power	2.0	2.0	2.0	2.1	2.0	2.0	2.5	2.4	2.4
	75°F [23.9°C	Total kBtu/h [kW]	24.1 [7.1]	23.1 [6.8]	23.0 [6.7]	22.6 [6.6]	21.6 [6.3]	21.5 [6.3]	21.8 [6.4]	20.9 [6.1]	20.8 [6.1]
		Sens kBtu/h [kW]	5.7 [1.7]	5.1 [1.5]	5.0 [1.5]	6.6 [1.9]	6.0 [1.7]	5.9 [1.7]	8.5 [2.5]	7.7 [2.2]	7.5 [2.2]
		Power	2.1	2.1	2.1	2.2	2.1	2.1	2.6	2.5	2.5
	80°F [26.7°C]	Total kBtu/h [kW]	23.1 [6.8]	22.1 [6.5]	22.0 [6.4]	21.5 [6.3]	20.6 [6.0]	20.5 [6.0]	20.7 [6.1]	19.9 [5.8]	19.8 [5.8]
		Sens kBtu/h [kW]	4.9 [1.4]	4.4 [1.3]	4.4 [1.3]	5.8 [1.7]	5.3 [1.5]	5.2 [1.5]	7.7 [2.3]	7.0 [2.0]	6.9 [2.0]
		Power	2.2	2.2	2.2	2.3	2.2	2.2	2.7	2.6	2.6
	85°F [29.4°C]	Total kBtu/h [kW]	21.9 [6.4]	2.0 [6.1]	20.8 [6.1]	20.3 [6.0]	19.5 [5.7]	19.4 [5.7]	19.6 [5.7]	18.8 [5.5]	18.6 [5.5]
		Sens kBtu/h [kW]	4.0 [1.2]	3.6 [1.1]	3.6 [1.0]	5.0 [1.5]	4.5 [1.3]	4.4 [1.3]	6.8 [2.0]	6.2 [1.8]	6.1 [1.8]
		Power	2.4	2.3	2.3	2.4	2.4	2.4	2.8	2.8	2.8
	90°F [32.2°C]	Total kBtu/h [kW]	20.5 [6.0]	19.7 [5.8]	19.6 [5.7]	19.0 [5.6]	18.2 [5.3]	18.1 [5.3]	18.2 [5.3]	17.5 [5.1]	17.4 [5.1]
		Sens kBtu/h [kW]	3.0 [0.9]	2.7 [0.8]	2.7 [0.8]	3.9 [1.2]	3.5 [1.0]	3.5 [1.0]	5.8 [1.7]	5.2 [1.5]	5.2 [1.5]
		Power	2.5	2.5	2.5	2.6	2.5	2.5	3.0	2.9	2.9

GROSS SYSTEMS PERFORMANCE DATA (HIGH HUMIDIDRY MODE)—RACCYC060

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]			2250 [1062]	1840 [868]	1750 [826]	2250 [1062]	1840 [868]	1750 [826]	2250 [1062]	1840 [868]	1750 [826]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	60°F [15.6°C]	Total kBtu/h [kW]	37.3 [10.9]	35.8 [10.5]	35.5 [10.4]	35.2 [10.3]	33.9 [9.9]	33.6 [9.8]	34.4 [10.1]	33.0 [9.7]	32.7 [9.6]
		Sens kBtu/h [kW]	20.1 [5.9]	18.2 [5.3]	17.8 [5.2]	18.6 [5.5]	16.9 [4.9]	16.5 [4.8]	20.6 [6.0]	18.6 [5.5]	18.2 [5.3]
		Power	3.2	3.1	3.1	3.0	3.0	3.0	3.1	3.1	3.1
	70°F [21.1°C]	Total kBtu/h [kW]	35.3 [10.3]	33.9 [9.9]	33.6 [9.9]	33.3 [9.8]	32.0 [9.4]	31.7 [9.3]	32.4 [9.5]	31.2 [9.1]	30.9 [9.1]
		Sens kBtu/h [kW]	18.2 [5.3]	16.5 [4.8]	16.1 [4.7]	16.7. [4.9]	15.1 [4.4]	14.8 [4.3]	18.7 [5.5]	16.9 [5.0]	16.5 [4.8]
		Power	3.3	3.2	3.2	3.2	3.1	3.1	3.3	3.2	3.2
	80°F [26.7°C]	Total kBtu/h [kW]	32.8 [9.6]	31.5 [9.2]	31.3 [9.2]	30.8 [9.0]	29.6 [8.7]	29.3 [8.6]	29.9 [8.8]	28.8 [8.4]	28.5 [8.4]
		Sens kBtu/h [kW]	15.7 [4.6]	14.2 [4.2]	13.9 [4.1]	14.2. [4.2]	12.9 [3.8]	12.6 [3.7]	16.2 [4.7]	14.6 [4.3]	14.3 [4.2]
		Power	3.6	3.5	3.5	3.5	3.4	3.4	3.6	3.5	3.5
	90°F [32.2°C]	Total kBtu/h [kW]	29.7 [8.7]	28.6 [8.4]	28.3. [8.3]	27.7. [8.1]	26.6 [7.8]	26.4 [7.7]	26.9 [7.9]	25.8 [7.6]	25.6 [7.5]
		Sens kBtu/h [kW]	12.6 [3.7]	11.4 [3.3]	11.1. [3.3]	11.1. [3.3]	10.1 [3.0]	9.8 [2.9]	13.1 [3.8]	11.8 [3.5]	11.6 [3.4]
		Power	3.9	3.9	3.8	3.8	3.7	3.7	3.9	3.8	3.8
	100°F [37.8°C]	Total kBtu/h [kW]	26.1 [7.7]	25.1 [7.4]	24.9. [7.3]	24.1 [7.1]	23.1 [6.8]	22.9 [6.7]	23.2 [6.8]	22.3 [6.5]	22.1 [6.5]
		Sens kBtu/h [kW]	8.9 [2.6]	8.1 [2.4]	7.9 [2.3]	7.4 [2.2]	6.7 [2.0]	6.6 [1.9]	9.4 [2.7]	8.5 [2.5]	8.3 [2.4]
		Power	4.4	4.3	4.3	4.3	4.2	4.2	4.4	4.3	4.3
	110°F [43.3°C]	Total kBtu/h [kW]	21.9 [6.4]	21.1 [6.2]	20.9 [6.1]	19.9 [5.8]	19.1 [5.6]	18.9 [5.5]	19.0 [5.6]	18.3 [5.4]	18.1 [5.3]
		Sens kBtu/h [kW]	4.6 [1.4]	4.2 [1.2]	4.1. [1.2]	3.2 [0.9]	2.9 [0.8]	2.8 [0.8]	5.1 [1.5]	4.6 [1.4]	4.5 [1.3]
		Power	4.9	4.8	4.8	4.8	4.7	4.7	4.9	4.8	4.8
	120°F [48.9°C]	Total kBtu/h [kW]	17.2 [5.0]	16.5 [4.8]	16.3 [4.8]	15.1 [4.4]	14.5 [4.3]	14.4 [4.2]	14.3 [4.2]	13.7 [4.0]	13.6 [4.0]
		Sens kBtu/h [kW]	-0.3 [-0.1]	-0.2 [-0.1]	-0.2 [-0.1]	-1.7 [-0.5]	-1.6 [-0.5]	-1.5 [-0.4]	0.2 [0.1]	0.2 [0.1]	0.2 [0.1]
		Power	5.6	5.5	5.4	5.5	5.4	5.3	5.6	5.4	5.4

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

3–6T—LOW STATIC—SIDEFLOW (208/230V, 575V)

Unit Model (Tonnage)	Manufacturer Recommended Airflow Range (Min/Max) CFM	Motor HP [W]	Motor Speed	CFM/ WATTS	External Static Pressure - Inches W.C. [kPa]							
					0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]
RACCYB036 (3T)	1050/1350	3/4 HP [559]	Fan Only - Tap 1	CFM	1312	1025	815	735	646	545	473	402
				WATTS	152	116	104	112	119	126	131	138
		3/4 HP [559]	Low Heat - Tap 2	CFM	1603	1523	1448	1382	1300	1241	1174	1116
				WATTS	233	246	260	272	285	297	309	320
		3/4 HP [559]	High Heat - Tap 3	CFM	1856	1792	1703	1646	1589	1511	1459	1399
				WATTS	338	354	367	380	395	412	424	440
		3/4 HP [559]	Rated Cool - Tap 4*	CFM	1603	1523	1448	1382	1300	1241	1174	1116
				WATTS	233	246	260	272	285	297	309	320
		3/4 HP [559]	Max Speed - Tap 5	CFM	1865	1797	1735	1670	1604	1537	1471	1422
				WATTS	348	363	377	392	409	425	441	453
RACCYB048 (4T)	1400/1800	3/4 HP [559]	Fan Only - Tap 1	CFM	1379	1072	903	829	757	682	589	515
				WATTS	168	124	122	131	139	146	155	162
		3/4 HP [559]	Low Heat - Tap 2	CFM	1785	1727	1662	1606	1554	1475	1415	1368
				WATTS	319	336	354	369	383	402	419	434
		3/4 HP [559]	High Heat - Tap 3	CFM	1851	1794	1733	1677	1626	1569	1484	1429
				WATTS	352	370	388	404	418	433	452	468
		3/4 HP [559]	Rated Cool - Tap 4*	CFM	1905	1850	1791	1734	1684	1630	1543	1488
				WATTS	378	396	415	432	447	462	483	498
		3/4 HP [559]	Max Speed - Tap 5	CFM	2035	1985	1928	1872	1824	1777	1730	1652
				WATTS	450	468	488	509	526	543	560	583
RACCYB060 (5T)	1750/2250	1 HP [745]	Fan Only - Tap 1	CFM	1295	1092	991	910	839	758	666	592
				WATTS	155	132	144	152	161	171	180	187
		1 HP [745]	Low Heat - Tap 2	CFM	1685	1621	1562	1514	1459	1372	1310	1257
				WATTS	288	303	318	332	347	364	377	391
		1 HP [745]	High Heat - Tap 3	CFM	1887	1829	1781	1731	1678	1636	1564	1495
				WATTS	390	407	423	439	456	471	491	508
		1 HP [745]	Rated Cool - Tap 4*	CFM	2179	2136	2087	2035	1989	1955	1912	1868
				WATTS	580	598	618	638	657	674	692	711
		1 HP [745]	Max Speed - Tap 5	CFM	2296	2244	2207	2152	2115	2066	2034	1987
				WATTS	668	689	709	730	750	771	789	811
RACCYB072 (6T)	2100/2700	1.2 HP [895]	Fan/Low Heat - Tap 1	CFM	1429	1366	1299	1227	1134	1072	1009	950
				WATTS	169	180	191	204	216	227	237	245
		1.2 HP [895]	High Heat - Tap 2	CFM	1946	1899	1850	1800	1752	1701	1652	1589
				WATTS	362	377	393	408	423	439	454	473
		1.2 HP [895]	Low Cool - Tap 3	CFM	1602	1542	1484	1425	1358	1271	1213	1155
				WATTS	221	233	246	258	273	287	299	310
		1.2 HP [895]	High Cool - Tap 4*	CFM	2630	2595	2558	2526	2490	2453	2422	2389
				WATTS	818	840	862	884	907	930	952	976
		1.2 HP [895]	Max Speed - Tap 5	CFM	2700	2668	2635	2601	2568	2536	2504	2473
				WATTS	888	910	933	956	980	1003	1029	1055

The data provided in this table is calculated from airflow operation with MERV 8 filters installed.

NOTES: * Tap 4 - Factory Cooling Tap
Pressure drops across the 3-6T CFM range (1050 - 2700)
Wet coil: ~0.09 Inches W.C.
Downflow: ~0.1 Inches W.C.
Reheat coil: ~0.09 Inches W.C.

[ ] Designates Metric Conversions

3–6T—HIGH STATIC—SIDEFLOW (208/230V, 575V)

Unit Model (Tonnage)	Manufacturer Recommended Airflow Range (Min/Max) CFM	Motor HP [W]	Motor Speed	CFM/ WATTS	External Static Pressure - Inches W.C. [kPa]							
					0.8 [.2]	0.9 [.22]	1.0 [.25]	1.1 [.27]	1.2 [.3]	1.3 [.32]	1.4 [.35]	1.5 [.37]
RACCYB036 (3T)	1050/1350	1.5 HP [1119]	Fan Only - Tap 1	CFM	959	888	811	723	647	594	521	472
				WATTS	264	274	283	291	301	301	312	318
		1.5 HP [1119]	Low Heat - Tap 2	CFM	1510	1449	1393	1344	1293	1237	1185	1133
				WATTS	476	490	504	516	529	538	550	562
		1.5 HP [1119]	High Heat - Tap 3	CFM	1802	1748	1697	1644	1595	1524	1482	1441
				WATTS	641	656	672	688	703	704	719	735
		1.5 HP [1119]	Rated Cool - Tap 4*	CFM	1510	1449	1393	1344	1293	1237	1185	1133
				WATTS	476	490	504	516	529	538	550	562
		1.5 HP [1119]	Max Speed - Tap 5	CFM	1826	1764	1713	1664	1612	1565	1519	1473
				WATTS	652	669	685	700	716	731	745	760
RACCYB048 (4T)	1400/1800	1.5 HP [1119]	Fan Only - Tap 1	CFM	1047	981	905	827	745	672	610	566
				WATTS	299	310	321	331	340	348	355	361
		1.5 HP [1119]	Low Heat - Tap 2	CFM	1757	1710	1645	1592	1549	1512	1467	1422
				WATTS	611	628	647	664	680	698	717	734
		1.5 HP [1119]	High Heat - Tap 3	CFM	1820	1775	1724	1661	1614	1574	1530	1484
				WATTS	653	671	688	706	723	739	757	775
		1.5 HP [1119]	Rated Cool - Tap 4*	CFM	1880	1831	1785	1720	1668	1627	1586	1541
				WATTS	690	708	725	745	763	780	797	816
		1.5 HP [1119]	Max Speed - Tap 5	CFM	2000	1956	1912	1868	1808	1756	1721	1684
				WATTS	769	788	806	826	847	868	887	908
RACCYB060 (5T)	1750/2250	1.5 HP [1119]	Fan Only - Tap 1	CFM	1101	1048	999	908	844	772	709	650
				WATTS	325	336	350	359	367	376	384	390
		1.5 HP [1119]	Low Heat - Tap 2	CFM	1634	1592	1546	1501	1458	1413	1365	1323
				WATTS	585	599	615	631	647	663	679	694
		1.5 HP [1119]	High Heat - Tap 3	CFM	1845	1794	1754	1711	1666	1626	1585	1544
				WATTS	723	740	757	775	793	810	826	843
		1.5 HP [1119]	Rated Cool - Tap 4*	CFM	2271	2239	2203	2149	2109	2066	2036	1999
				WATTS	1100	1118	1138	1165	1187	1210	1230	1251
		1.5 HP [1119]	Max Speed - Tap 5	CFM	2155	2116	2064	2017	1979	1944	1909	1871
				WATTS	971	991	1014	1036	1056	1077	1097	1118
RACCYB072 (6T)	2100/2700	1.2 HP [895]	Fan/Low Heat - Tap 1	CFM	1336	1286	1234	1183	1130	1074	998	930
				WATTS	379	392	404	416	427	439	450	460
		1.2 HP [895]	High Heat - Tap 2	CFM	1961	1920	1874	1821	1767	1719	1680	1647
				WATTS	668	686	708	732	754	777	796	817
		1.2 HP [895]	Low Cool - Tap 3	CFM	1616	1540	1494	1449	1405	1362	1315	1271
				WATTS	487	505	521	537	552	566	581	594
		1.2 HP [895]	High Cool - Tap 4*	CFM	2461	2428	2400	2366	2336	2314	2285	2224
				WATTS	1055	1081	1110	1144	1177	1212	1240	1246
		1.2 HP [895]	Max Speed - Tap 5	CFM	2461	2428	2400	2366	2336	2314	2285	2224
				WATTS	1055	1081	1110	1144	1177	1212	1240	1246

The data provided in this table is calculated from airflow operation with MERV 8 filters installed.

NOTES: * Tap 4 - Factory Cooling Tap
Pressure drops across the 3-6T CFM range (1050 - 2700)
Wet coil: ~0.09 Inches W.C.
Downflow: ~0.1 Inches W.C.
Reheat coil: ~0.09 Inches W.C.

[ ] Designates Metric Conversions

3–6T—LOW STATIC—SIDEFLOW (460V)

Unit Model (Tonnage)	Manufacturer Recommended Airflow Range (Min/Max) CFM	Motor HP [W]	Motor Speed	CFM/ WATTS	External Static Pressure - Inches W.C. [kPa]							
					0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]
RACCYB036 (3T)	1050/1350	3/4 HP [559]	Fan Only - Tap 1	CFM	1002	888	797	704	612	510	392	322
				WATTS	108	117	124	132	139	145	153	157
		3/4 HP [559]	Low Heat - Tap 2	CFM	1220	1138	1048	970	896	812	727	644
				WATTS	157	166	176	186	194	205	214	222
		3/4 HP [559]	High Heat - Tap 3	CFM	1804	1736	1670	1606	1546	1481	1424	1370
				WATTS	357	373	388	403	416	431	445	459
		3/4 HP [559]	Rated Cool - Tap 4*	CFM	1548	1476	1407	1327	1258	1190	1125	1064
				WATTS	255	267	279	292	303	316	327	338
		3/4 HP [559]	Max Speed - Tap 5	CFM	1818	1748	1681	1619	1557	1495	1432	1379
				WATTS	366	383	398	412	427	440	454	468
RACCYB048 (4T)	1400/1800	3/4 HP [559]	Fan Only - Tap 1	CFM	1121	1037	930	853	777	672	567	485
				WATTS	100	110	121	130	139	148	155	161
		3/4 HP [559]	Low Heat - Tap 2	CFM	1424	1349	1281	1211	1115	1055	996	927
				WATTS	173	186	198	210	224	234	244	255
		3/4 HP [559]	High Heat - Tap 3	CFM	1859	1804	1750	1692	1639	1587	1527	1450
				WATTS	344	360	376	393	408	423	441	458
		3/4 HP [559]	Rated Cool - Tap 4*	CFM	1907	1855	1798	1742	1686	1633	1578	1495
				WATTS	368	386	402	418	434	449	464	482
		3/4 HP [559]	Max Speed - Tap 5	CFM	2023	1973	1922	1868	1818	1767	1717	1666
				WATTS	436	453	470	488	505	522	539	557
RACCYB060 (5T)	1750/2250	1 HP [745]	Fan Only - Tap 1	CFM	1124	1043	949	872	793	698	607	508
				WATTS	114	124	133	142	149	159	166	174
		1 HP [745]	Low Heat - Tap 2	CFM	1280	1202	1121	1046	968	895	816	732
				WATTS	150	160	172	182	192	201	213	221
		1 HP [745]	High Heat - Tap 3	CFM	1878	1822	1771	1722	1668	1610	1551	1502
				WATTS	395	412	428	443	458	475	491	505
		1 HP [745]	Rated Cool - Tap 4*	CFM	2160	2109	2065	2017	1974	1931	1883	1829
				WATTS	585	605	623	642	659	676	694	714
		1 HP [745]	Max Speed - Tap 5	CFM	2288	2243	2191	2146	2105	2061	2024	1979
				WATTS	681	702	725	745	764	783	801	820
RACCYB072 (6T)	2100/2700	1.2 HP [895]	Fan/Low Heat - Tap 1	CFM	1425	1353	1271	1188	1115	1057	990	912
				WATTS	167	178	190	202	211	222	231	241
		1.2 HP [895]	High Heat - Tap 2	CFM	1994	1944	1884	1830	1772	1717	1652	1591
				WATTS	387	401	414	427	442	458	472	485
		1.2 HP [895]	Low Cool - Tap 3	CFM	1621	1557	1499	1430	1353	1286	1227	1179
				WATTS	228	241	254	268	280	290	302	316
		1.2 HP [895]	High Cool - Tap 4*	CFM	2700	2665	2627	2588	2549	2515	2471	2425
				WATTS	861	880	901	922	940	964	984	1004
		1.2 HP [895]	Max Speed - Tap 5	CFM	2776	2736	2701	2659	2620	2581	2544	2498
				WATTS	928	950	969	989	1005	1028	1049	1069

The data provided in this table is calculated from airflow operation with MERV 8 filters installed.

NOTES: * Tap 4 - Factory Cooling Tap
Pressure drops across the 3-6T CFM range (1050 - 2700)
Wet coil: ~0.09 Inches W.C.
Downflow: ~0.1 Inches W.C.
Reheat coil: ~0.09 Inches W.C.

[ ] Designates Metric Conversions

3–6T—HIGH STATIC—SIDEFLOW (460V)

Unit Model (Tonnage)	Manufacturer Recommended Airflow Range (Min/Max) CFM	Motor HP [W]	Motor Speed	CFM/ WATTS	External Static Pressure - Inches W.C. [kPa]							
					0.8 [.2]	0.9 [.22]	1.0 [.25]	1.1 [.27]	1.2 [.3]	1.3 [.32]	1.4 [.35]	1.5 [.37]
RACCYB036 (3T)	1050/1350	1 HP [745]	Fan Only - Tap 1	CFM	892	829	748	681	620	573	512	462
				WATTS	282	290	299	307	316	323	332	340
		1 HP [745]	Low Heat - Tap 2	CFM	1149	1091	1032	970	907	841	773	724
				WATTS	367	379	390	400	410	419	431	438
		1 HP [745]	High Heat - Tap 3	CFM	1751	1697	1649	1590	1541	1489	1443	1406
				WATTS	672	690	704	720	735	750	766	779
		1 HP [745]	Rated Cool - Tap 4*	CFM	1493	1440	1357	1312	1258	1213	1162	1105
				WATTS	523	539	542	553	568	581	593	606
		1 HP [745]	Max Speed - Tap 5	CFM	1768	1703	1658	1597	1554	1504	1454	1413
				WATTS	682	702	714	732	746	760	777	791
RACCYB048 (4T)	1400/1800	1 HP [745]	Fan Only - Tap 1	CFM	1044	986	928	842	763	696	646	594
				WATTS	292	302	312	324	332	340	346	353
		1 HP [745]	Low Heat - Tap 2	CFM	1307	1255	1203	1153	1101	1047	973	913
				WATTS	395	408	419	431	442	453	466	479
		1 HP [745]	High Heat - Tap 3	CFM	1863	1753	1701	1666	1629	1594	1555	1514
				WATTS	670	693	712	726	742	758	774	790
		1 HP [745]	Rated Cool - Tap 4*	CFM	1908	1848	1774	1724	1682	1640	1598	1545
				WATTS	701	722	743	758	774	790	807	812
		1 HP [745]	Max Speed - Tap 5	CFM	2028	1984	1915	1851	1806	1764	1724	1509
				WATTS	787	805	830	850	867	884	902	782
RACCYB060 (5T)	1750/2250	1.2 HP [895]	Fan Only - Tap 1	CFM	956	892	834	771	698	645	570	523
				WATTS	335	342	351	354	362	370	377	385
		1.2 HP [895]	Low Heat - Tap 2	CFM	1209	1150	1078	1015	967	910	855	795
				WATTS	445	458	464	472	484	496	503	506
		1.2 HP [895]	High Heat - Tap 3	CFM	1795	1745	1699	1652	1612	1564	1522	1478
				WATTS	841	859	874	886	905	915	928	942
		1.2 HP [895]	Rated Cool - Tap 4*	CFM	2084	2048	2003	1960	1922	1874	1823	1777
				WATTS	1151	1170	1188	1204	1219	1232	1242	1255
		1.2 HP [895]	Max Speed - Tap 5	CFM	2161	2093	2047	1991	1942	1881	1830	1767
				WATTS	1243	1243	1244	1244	1243	1245	1242	1243
RACCYB072 (6T)	2100/2700	1.2 HP [895]	Fan/Low Heat - Tap 1	CFM	1337	1287	1237	1178	1112	1037	963	879
				WATTS	379	390	403	414	423	434	446	456
		1.2 HP [895]	High Heat - Tap 2	CFM	1999	1946	1889	1834	1786	1741	1696	1655
				WATTS	703	721	735	751	766	783	798	812
		1.2 HP [895]	Low Cool - Tap 3	CFM	1576	1523	1472	1423	1369	1312	1256	1195
				WATTS	482	495	508	519	530	540	551	565
		1.2 HP [895]	High Cool - Tap 4*	CFM	2585	2542	2505	2448	2405	2338	2266	2195
				WATTS	1154	1174	1203	1217	1238	1239	1238	1234
		1.2 HP [895]	Max Speed - Tap 5	CFM	2585	2542	2505	2448	2405	2338	2266	2195
				WATTS	1154	1174	1203	1217	1238	1239	1238	1234

The data provided in this table is calculated from airflow operation with MERV 8 filters installed.

NOTES: * Tap 4 - Factory Cooling Tap
Pressure drops across the 3-6T CFM range (1050 - 2700)
Wet coil: ~0.09 Inches W.C.
Downflow: ~0.1 Inches W.C.
Reheat coil: ~0.09 Inches W.C.

[ ] Designates Metric Conversions

3–5T—LOW STATIC—SIDEFLOW (208/230V)

Unit Model (Tonnage)	Manufacturer Recommended Airflow Range (Min/Max) CFM	Motor HP [W]	Motor Speed	CFM/ WATTS	External Static Pressure - Inches W.C. [kPa]							
					0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]
RACCYC036 (3T)	1050/1350	3/4 HP [559]	Fan/Low Heat - Tap 1	CFM	1603	1523	1448	1382	1300	1241	1174	1116
				WATTS	233	246	260	272	285	297	309	320
		3/4 HP [559]	High Heat - Tap 2	CFM	1856	1792	1703	1646	1589	1511	1459	1399
				WATTS	338	354	367	380	395	412	424	440
		3/4 HP [559]	Low Cool - Tap 3	CFM	1332	1042	774	691	590	495	430	351
				WATTS	154	118	97	104	111	117	123	129
		3/4 HP [559]	High Cool - Tap 4*	CFM	1448	1368	1292	1203	1135	1059	999	930
				WATTS	186	197	209	222	233	241	251	262
		3/4 HP [559]	Max Speed - Tap 5	CFM	1865	1797	1735	1670	1604	1537	1471	1422
				WATTS	348	363	377	392	409	425	441	453
RACCYC048 (4T)	1400/1800	3/4 HP [559]	Fan/Low Heat - Tap 1	CFM	1785	1727	1662	1606	1554	1475	1415	1368
				WATTS	319	336	354	369	383	402	419	434
		3/4 HP [559]	High Heat - Tap 2	CFM	1851	1794	1733	1677	1626	1569	1484	1429
				WATTS	352	370	388	404	418	433	452	468
		3/4 HP [559]	Low Cool - Tap 3	CFM	1087	873	799	709	598	519	445	372
				WATTS	118	103	109	117	122	130	134	140
		3/4 HP [559]	High Cool - Tap 4*	CFM	1734	1675	1624	1574	1515	1465	1412	1359
				WATTS	376	390	402	415	428	441	451	461
		3/4 HP [559]	Max Speed - Tap 5	CFM	2035	1985	1928	1872	1824	1777	1730	1652
				WATTS	450	468	488	509	526	543	560	583
RACCYC060 (5T)	1750/2250	1 HP [745]	Fan/Low Heat - Tap 1	CFM	1685	1621	1562	1514	1459	1372	1310	1257
				WATTS	288	303	318	332	347	364	377	391
		1 HP [745]	High Heat - Tap 2	CFM	1887	1829	1781	1731	1678	1636	1564	1495
				WATTS	390	407	423	439	456	471	491	508
		1 HP [745]	Low Cool - Tap 3	CFM	1397	1324	1266	1179	1107	1043	981	913
				WATTS	183	196	207	221	232	243	254	265
		1 HP [745]	High Cool - Tap 4*	CFM	2179	2136	2087	2035	1989	1955	1912	1868
				WATTS	580	598	618	638	657	674	692	711
		1 HP [745]	Max Speed - Tap 5	CFM	2296	2244	2207	2152	2115	2066	2034	1987
				WATTS	668	689	709	730	750	771	789	811

The data provided in this table is calculated from airflow operation with MERV 8 filters installed.

NOTES: * Tap 4 - Factory Cooling Tap
Pressure drops across the 3-5T CFM range (1050 - 2250)
Wet coil: ~0.09 Inches W.C.
Downflow: ~0.1 Inches W.C.
Reheat coil: ~0.09 Inches W.C.
FER testing - 3 ton model, 100K heating input, use Tap 3 as Q max

[ ] Designates Metric Conversions

3–5T—HIGH STATIC—SIDEFLOW (208/230V)

Unit Model (Tonnage)	Manufacturer Recommended Airflow Range (Min/Max) CFM	Motor HP [W]	Motor Speed	CFM/ WATTS	External Static Pressure - Inches W.C. [kPa]							
					0.8 [.2]	0.9 [.22]	1.0 [.25]	1.1 [.27]	1.2 [.3]	1.3 [.32]	1.4 [.35]	1.5 [.37]
RACCYC036 (3T)	1050/1350	1.5 HP [1119]	Fan/Low Heat - Tap 1	CFM	1510	1449	1393	1344	1293	1237	1185	1133
				WATTS	476	490	504	516	529	538	550	562
		1.5 HP [1119]	High Heat - Tap 2	CFM	1802	1748	1697	1644	1595	1524	1482	1441
				WATTS	641	656	672	688	703	704	719	735
		1.5 HP [1119]	Low Cool - Tap 3	CFM	922	850	785	715	642	600	543	483
				WATTS	254	263	277	284	293	299	307	316
		1.5 HP [1119]	High Cool - Tap 4*	CFM	1351	1292	1241	1191	1142	1091	1033	960
				WATTS	403	417	428	441	453	472	483	495
		1.5 HP [1119]	Max Speed - Tap 5	CFM	1826	1764	1713	1664	1612	1565	1519	1473
				WATTS	652	669	685	700	716	731	745	760
RACCYC048 (4T)	1400/1800	1 HP [745]	Fan/Low Heat - Tap 1	CFM	1757	1710	1645	1592	1549	1512	1467	1422
				WATTS	611	628	647	664	680	698	717	734
		1 HP [745]	High Heat - Tap 2	CFM	1820	1775	1724	1661	1614	1574	1530	1484
				WATTS	653	671	688	706	723	739	757	775
		1 HP [745]	Low Cool - Tap 3	CFM	955	885	808	727	652	596	550	507
				WATTS	272	282	292	301	308	316	323	331
		1 HP [745]	High Cool - Tap 4*	CFM	1708	1656	1591	1544	1507	1463	1415	1372
				WATTS	581	598	615	632	649	668	686	703
		1 HP [745]	Max Speed - Tap 5	CFM	2000	1956	1912	1868	1808	1756	1721	1684
				WATTS	769	788	806	826	847	868	887	908
RACCYC060 (5T)	1750/2250	1.2 HP [895]	Fan/Low Heat - Tap 1	CFM	1634	1592	1546	1501	1458	1413	1365	1323
				WATTS	585	599	615	631	647	663	679	694
		1.2 HP [895]	High Heat - Tap 2	CFM	1845	1794	1754	1711	1666	1626	1585	1544
				WATTS	723	740	757	775	793	810	826	843
		1.2 HP [895]	Low Cool - Tap 3	CFM	1385	1333	1281	1228	1177	1127	1074	995
				WATTS	448	462	475	489	502	514	526	541
		1.2 HP [895]	High Cool - Tap 4*	CFM	2271	2239	2203	2149	2109	2066	2036	1999
				WATTS	1100	1118	1138	1165	1187	1210	1230	1251
		1.2 HP [895]	Max Speed - Tap 5	CFM	2155	2116	2064	2017	1979	1944	1909	1871
				WATTS	971	991	1014	1036	1056	1077	1097	1118

The data provided in this table is calculated from airflow operation with MERV 8 filters installed.

NOTES: * Tap 4 - Factory Cooling Tap
Pressure drops across the 3-5T CFM range (1050 - 2250)
Wet coil: ~0.09 Inches W.C.
Downflow: ~0.1 Inches W.C.
Reheat coil: ~0.09 Inches W.C.
FER testing - 3 ton model, 100K heating input, use Tap 3 as Q max

[ ] Designates Metric Conversions

3–5T—LOW STATIC—SIDEFLOW (460V)

Unit Model (Tonnage)	Manufacturer Recommended Airflow Range (Min/Max) CFM	Motor HP [W]	Motor Speed	CFM/ WATTS	External Static Pressure - Inches W.C. [kPa]							
					0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]
RACCYC036 (3T)	1050/1350	3/4 HP [559]	Fan/Low Heat - Tap 1	CFM	1220	1138	1048	970	896	812	727	644
				WATTS	157	166	176	186	194	205	214	222
		3/4 HP [559]	High Heat - Tap 2	CFM	1804	1736	1670	1606	1546	1481	1424	1370
				WATTS	357	373	388	403	416	431	445	459
		3/4 HP [559]	Low Cool - Tap 3	CFM	942	834	741	627	539	448	364	273
				WATTS	102	111	118	127	132	138	143	148
		3/4 HP [559]	High Cool - Tap 4*	CFM	1394	1326	1237	1163	1091	1020	953	878
				WATTS	206	217	230	240	250	262	272	283
		3/4 HP [559]	Max Speed - Tap 5	CFM	1818	1748	1681	1619	1557	1495	1432	1379
				WATTS	366	383	398	412	427	440	454	468
RACCYC048 (4T)	1400/1800	3/4 HP [559]	Fan/Low Heat - Tap 1	CFM	1424	1349	1281	1211	1115	1055	996	927
				WATTS	173	186	198	210	224	234	244	255
		3/4 HP [559]	High Heat - Tap 2	CFM	1859	1804	1750	1692	1639	1587	1527	1450
				WATTS	344	360	376	393	408	423	441	458
		3/4 HP [559]	Low Cool - Tap 3	CFM	958	871	785	703	583	509	440	370
				WATTS	91	99	106	113	120	126	132	137
		3/4 HP [559]	High Cool - Tap 4*	CFM	1720	1664	1609	1560	1511	1463	1404	1351
				WATTS	363	375	388	400	414	425	440	454
		3/4 HP [559]	Max Speed - Tap 5	CFM	2023	1973	1922	1868	1818	1767	1717	1666
				WATTS	436	453	470	488	505	522	539	557
RACCYC060 (5T)	1750/2250	1 HP [745]	Fan/Low Heat - Tap 1	CFM	1280	1202	1121	1046	968	895	816	732
				WATTS	150	160	172	182	192	201	213	221
		1 HP [745]	High Heat - Tap 2	CFM	1878	1822	1771	1722	1668	1610	1551	1502
				WATTS	395	412	428	443	458	475	491	505
		1 HP [745]	Low Cool - Tap 3	CFM	1349	1290	1209	1131	1061	986	921	837
				WATTS	173	184	196	207	217	227	237	249
		1 HP [745]	High Cool - Tap 4*	CFM	2160	2109	2065	2017	1974	1931	1883	1829
				WATTS	585	605	623	642	659	676	694	714
		1 HP [745]	Max Speed - Tap 5	CFM	2288	2243	2191	2146	2105	2061	2024	1979
				WATTS	681	702	725	745	764	783	801	820

The data provided in this table is calculated from airflow operation with MERV 8 filters installed.

NOTES: * Tap 4 - Factory Cooling Tap
Pressure drops across the 3-5T CFM range (1050 - 2250)
Wet coil: ~0.09 Inches W.C.
Downflow: ~0.1 Inches W.C.
Reheat coil: ~0.09 Inches W.C.

[ ] Designates Metric Conversions

3–5T—HIGH STATIC—SIDEFLOW (460V)

Unit Model (Tonnage)	Manufacturer Recommended Airflow Range (Min/Max) CFM	Motor HP [W]	Motor Speed	CFM/ WATTS	External Static Pressure - Inches W.C. [kPa]							
					0.8 [.2]	0.9 [.22]	1.0 [.25]	1.1 [.27]	1.2 [.3]	1.3 [.32]	1.4 [.35]	1.5 [.37]
RACCYC036 (3T)	1050/1350	1 HP [745]	Fan/Low Heat - Tap 1	CFM	1149	1091	1032	970	907	841	773	724
				WATTS	367	379	390	400	410	419	431	438
		1 HP [745]	High Heat - Tap 2	CFM	1751	1697	1649	1590	1541	1489	1443	1406
				WATTS	672	690	704	720	735	750	766	779
		1 HP [745]	Low Cool - Tap 3	CFM	894	828	752	672	618	564	498	441
				WATTS	283	292	300	310	317	325	333	339
		1 HP [745]	High Cool - Tap 4*	CFM	1333	1257	1199	1147	1092	1040	980	909
				WATTS	445	452	465	477	488	500	510	522
		1 HP [745]	Max Speed - Tap 5	CFM	1768	1703	1658	1597	1554	1504	1454	1413
				WATTS	682	702	714	732	746	760	777	791
RACCYC048 (4T)	1400/1800	1 HP [745]	Fan/Low Heat - Tap 1	CFM	1307	1255	1203	1153	1101	1047	973	913
				WATTS	395	408	419	431	442	453	466	479
		1 HP [745]	High Heat - Tap 2	CFM	1863	1753	1701	1666	1629	1594	1555	1514
				WATTS	670	693	712	726	742	758	774	790
		1 HP [745]	Low Cool - Tap 3	CFM	952	895	808	724	654	598	551	496
				WATTS	264	273	284	292	298	305	311	316
		1 HP [745]	High Cool - Tap 4*	CFM	1710	1652	1612	1571	1526	1487	1445	1403
				WATTS	604	622	637	652	668	683	698	713
		1 HP [745]	Max Speed - Tap 5	CFM	2028	1984	1915	1851	1806	1764	1724	1509
				WATTS	787	805	830	850	867	884	902	782
RACCYC060 (5T)	1750/2250	1.2 HP [895]	Fan/Low Heat - Tap 1	CFM	1209	1150	1078	1015	967	910	855	795
				WATTS	445	458	464	472	484	496	503	506
		1.2 HP [895]	High Heat - Tap 2	CFM	1795	1745	1699	1652	1612	1564	1522	1478
				WATTS	841	859	874	886	905	915	928	942
		1.2 HP [895]	Low Cool - Tap 3	CFM	1318	1268	1214	1157	1094	1030	976	926
				WATTS	524	535	547	557	564	571	580	588
		1.2 HP [895]	High Cool - Tap 4*	CFM	2084	2048	2003	1960	1922	1874	1823	1777
				WATTS	1151	1170	1188	1204	1219	1232	1242	1255
		1.2 HP [895]	Max Speed - Tap 5	CFM	2161	2093	2047	1991	1942	1881	1830	1767
				WATTS	1243	1243	1244	1244	1243	1245	1242	1243

The data provided in this table is calculated from airflow operation with MERV 8 filters installed.

NOTES: * Tap 4 - Factory Cooling Tap
Pressure drops across the 3-5T CFM range (1050 - 2250)
Wet coil: ~0.09 Inches W.C.
Downflow: ~0.1 Inches W.C.
Reheat coil: ~0.09 Inches W.C.

[ ] Designates Metric Conversions

ELECTRICAL DATA – RACCYB SERIES

		036ACT	036ACU	036ADT	036ADU	036AJT	036AYT	036AYU
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	187-253	518-633	518-633
	Volts	208/230	208/230	460	460	208/230	575	575
	Phase	3	3	3	3	1	3	3
	Hz	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	24	29	10	11	25	9	11
	Minimum Circuit Ampacity with Power Exhaust	27	32	12	13	28	10	12
	Minimum Overcurrent Protection Device Size	30	35	15	15	30	15	15
	Minimum Overcurrent Protection Device Size with Power Exhaust	30	40	15	15	35	15	15
	Maximum Overcurrent Protection Device Size	35	40	15	15	35	15	15
	Maximum Overcurrent Protection Device Size with Power Exhaust	35	40	15	15	40	15	15
Compressor Motor	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	208/230	575	575
	Phase	3	3	3	3	1	3	3
	Amps (RLA)	12.8	12.8	5.1	5.1	13.5	4.5	4.5
	Amps (LRA)	97.5	97.5	44.3	44.3	82.5	27.1	27.1
Condenser Motor	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	208/230	575	575
	Phase	1	1	1	1	1	1	1
	HP	1/5	1/5	1/5	1/5	1/5	1/5	1/5
	Amps (FLA, each)	1	1	0.8	0.8	1	0.55	0.55
	Amps (LRA, each)	2.3	2.3	1.4	1.4	2.3	1.1	1.1
Evaporator Fan	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	208/230	208-230	208-230
	Phase	1	1	1	1	1	1	1
	HP	3/4	1-1/2	3/4	1	3/4	3/4	1-1/2
	Amps (FLA, each)	6	11.5	2.7	3.5	6	2.4	4.6

ELECTRICAL DATA – RACCYB SERIES

		048ACT	048ACU	048ADT	048ADU	048AJT	048AYT	048AYU
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	187-253	518-633	518-633
	Volts	208/230	208/230	460	460	208/230	575	575
	Phase	3	3	3	3	1	3	3
	Hz	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	24	30	13	13	30	10	12
	Minimum Circuit Ampacity with Power Exhaust	27	33	15	16	34	11	14
	Minimum Overcurrent Protection Device Size	30	35	15	15	35	15	15
	Minimum Overcurrent Protection Device Size with Power Exhaust	30	40	20	20	40	15	15
	Maximum Overcurrent Protection Device Size	35	40	15	15	45	15	15
	Maximum Overcurrent Protection Device Size with Power Exhaust	35	40	20	20	50	15	15
Compressor Motor	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	208/230	575	575
	Phase	3	3	3	3	1	3	3
	Amps (RLA)	12.2	12.2	6.4	6.4	17.3	5.1	5.1
	Amps (LRA)	120.4	120.4	48.5	48.5	126	41	41
Condenser Motor	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	208/230	575	575
	Phase	1	1	1	1	1	1	1
	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)	2.3	2.3	1.5	1.5	2.3	1	1
	Amps (LRA, each)	5.1	5.1	3.1	3.1	5.1	2.2	2.2
Evaporator Fan	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	208/230	208/230	208/230
	Phase	1	1	1	1	1	1	1
	HP	3/4	1-1/2	3/4	1	3/4	3/4	1-1/2
	Amps (FLA, each)	6	11.5	2.7	3.5	6	2.4	4.6

ELECTRICAL DATA – RACCYB SERIES

		060ACT	060ACU	060ADT	060ADU	060AJT	060AYT	060AYU
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	187-253	518-633	518-633
	Volts	208/230	208/230	460	460	208/230	575	575
	Phase	3	3	3	3	1	3	3
	Hz	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	30	34	15	15	38	13	14
	Minimum Circuit Ampacity with Power Exhaust	33	37	17	17	41	14	15
	Minimum Overcurrent Protection Device Size	35	40	20	20	45	15	20
	Minimum Overcurrent Protection Device Size with Power Exhaust	40	45	20	20	50	15	20
	Maximum Overcurrent Protection Device Size	45	45	20	20	50	15	20
	Maximum Overcurrent Protection Device Size with Power Exhaust	45	50	20	20	60	15	20
Compressor Motor	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	208/230	575	575
	Phase	3	3	3	3	1	3	3
	Amps (RLA)	16	16	7.7	7.7	21.8	6.4	6.4
	Amps (LRA)	156.4	156.4	58.1	58.1	143	47.8	47.8
Condenser Motor	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	208/230	575	575
	Phase	1	1	1	1	1	1	1
	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)	2.3	2.3	1.5	1.5	2.3	1	1
	Amps (LRA, each)	5.1	5.1	3.1	3.1	5.1	2.2	2.2
Evaporator Fan	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	208/230	208/230	208/230
	Phase	1	1	1	1	1	1	1
	HP	1	1-1/2	1	1-1/5	1	1	1-1/2
	Amps (FLA, each)	7.6	11.5	3.5	3.7	7.6	3.04	4.6

ELECTRICAL DATA – RACCYB SERIES

		072ACT	072ACU	072ADT	072ADU	072AYT	072AYU	072ACT	072ACU	072ADT	072ADU
								with HUMIDIDRY			
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506	518-633	518-633	187-253	187-253	414-506	414-506
	Volts	208/230	208/230	460	460	575	575	208/230	208/230	460	460
	Phase	3	3	3	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	38	38	18	18	13	13	39	39	18	18
	Minimum Circuit Ampacity with Power Exhaust	41	41	20	20	14	14	42	42	20	20
	Minimum Overcurrent Protection Device Size	45	45	20	20	15	15	45	45	20	20
	Minimum Overcurrent Protection Device Size with Power Exhaust	50	50	25	25	20	20	50	50	25	25
	Maximum Overcurrent Protection Device Size	50	50	25	25	15	15	50	50	25	25
	Maximum Overcurrent Protection Device Size with Power Exhaust	60	60	25	25	20	20	60	60	25	25
Compressor Motor	No.	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575	208/230	208/230	460	460
	Phase	3	3	3	3	3	3	3	3	3	3
	Amps (RLA)	19.2	19.2	9.1	9.1	6.2	6.2	19.2	19.2	9.1	9.1
	Amps (LRA)	162	162	70.8	70.8	58.2	58.2	162	162	70.8	70.8
Condenser Motor	No.	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	575	575	208/230	208/230	460	460
	Phase	1	1	1	1	1	1	1	1	1	1
	HP	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	Amps (FLA, each)	4.2	4.2	2.3	2.3	1.2	1.2	5.3	5.3	2.3	2.3
	Amps (LRA, each)	10.1	10.1	4.9	4.9	3.4	3.4	N/A	N/A	N/A	N/A
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	460	460	208/230	208/230	208/230	208/230	460	460
	Phase	1	1	1	1	1	1	1	1	1	1
	HP	1-1/5	1-1/5	1-1/5	1-1/5	1-1/5	1-1/5	1-1/5	1-1/5	1-1/5	1-1/5
	Amps (FLA, each)	9.6	9.6	3.7	3.7	3.8	3.8	9.6	9.6	3.7	3.7

ELECTRICAL DATA – RACCYC SERIES

		036AJT	036ACT	036ACU	036ADT	036ADU
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506
	Volts	208/230	208/230	208/230	460	460
	Phase	1	3	3	3	3
	Hz	60	60	60	60	60
	Minimum Circuit Ampacity	28/28	22/22	28/28	11	12
	Minimum Circuit Ampacity with Power Exhaust	31/31	25/25	31/31	13	14
	Minimum Overcurrent Protection Device Size	35/35	25/25	35/35	15	15
	Minimum Overcurrent Protection Device Size with Power Exhaust	35/35	30/30	35/35	15	15
	Maximum Overcurrent Protection Device Size	40/40	30/30	35/35	15	15
	Maximum Overcurrent Protection Device Size with Power Exhaust	45/45	30/30	40/40	15	15
Compressor Motor	No.	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460
	Phase	1	3	3	3	3
	Amps (RLA)	14.6	9.9	9.9	4.8	4.8
	Amps (LRA)	90.0	82.0	82.0	44.3	44.3
Condenser Motor	No.	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460
	Phase	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	3.5	3.5	3.5	1.6	1.6
Evaporator Fan	No.	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460
	Phase	1	1	1	1	1
	HP	3/4	3/4	1-1/2	3/4	1
	Amps (FLA, each)	6	6	11.5	2.7	3.5

ELECTRICAL DATA – RACCYC SERIES

		048AJT	048ACT	048ACU	048ADT	048ADU	048AJT	048ACT	048ACU	048ADT	048ADU
							with HUMIDIDRY				
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	187-253	187-253	187-253	414-506	414-506
	Volts	208/230	208/230	208/230	460	460	208/230	208/230	208/230	460	460
	Phase	1	3	3	3	3	1	3	3	3	3
	Hz	60	60	60	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	35/35	27/27	32/32	14	15	35/35	27/27	32/32	14	15
	Minimum Circuit Ampacity with Power Exhaust	38/38	30/30	35/35	16	17	38/38	30/30	35/35	16	17
	Minimum Overcurrent Protection Device Size	40/40	30/30	35/35	20	20	40/40	30/30	35/35	20	20
	Minimum Overcurrent Protection Device Size with Power Exhaust	45/45	35/35	40/40	20	20	45/45	35/35	40/40	20	20
	Maximum Overcurrent Protection Device Size	50/50	35/35	40/40	20	20	50/50	35/35	40/40	20	20
	Maximum Overcurrent Protection Device Size with Power Exhaust	50/50	40/40	45/45	20	20	50/50	40/40	45/45	20	20
Compressor Motor	No.	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	208/230	208/230	208/230	460	460
	Phase	1	3	3	3	3	1	3	3	3	3
	Amps (RLA)	18.3	11.9	11.9	6.8	6.8	18.3	11.9	11.9	6.8	6.8
	Amps (LRA)	138	112	112	61.8	61.8	138	112	112	61.8	61.8
Condenser Motor	No.	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	208/230	208/230	208/230	460	460
	Phase	1	1	1	1	1	1	1	1	1	1
	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)	5.3	5.3	5.3	2.3	2.3	5.3	5.3	5.3	2.3	2.3
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	208/230	208/230	208/230	460	460
	Phase	1	1	1	1	1	1	1	1	1	1
	HP	3/4	3/4	1-1/2	3/4	1	3/4	3/4	1-1/2	3/4	1
	Amps (FLA, each)	6	6	11.5	2.7	3.5	6	6	11.5	2.7	3.5

ELECTRICAL DATA – RACCYC SERIES

		060AJT	060ACT	060ACU	060ADT	060ADU	060AJT	060ACT	060ACU	060ADT	060ADU
							with HUMIDIDRY				
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	187-253	187-253	187-253	414-506	414-506
	Volts	208/230	208/230	208/230	460	460	208/230	208/230	208/230	460	460
	Phase	1	3	3	3	3	1	3	3	3	3
	Hz	60	60	60	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	41/41	31/31	35/35	14	14	41/41	31/31	35/35	14	14
	Minimum Circuit Ampacity with Power Exhaust	44/44	34/34	38/38	16	16	44/44	34/34	38/38	16	16
	Minimum Overcurrent Protection Device Size	50/50	35/35	40/40	20	20	50/50	35/35	40/40	20	20
	Minimum Overcurrent Protection Device Size with Power Exhaust	50/50	40/40	45/45	20	20	50/50	40/40	45/45	20	20
	Maximum Overcurrent Protection Device Size	60/60	40/40	45/45	20	20	60/60	40/40	45/45	20	20
	Maximum Overcurrent Protection Device Size with Power Exhaust	60/60	45/45	50/50	20	20	60/60	45/45	50/50	20	20
Compressor Motor	No.	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	208/230	208/230	208/230	460	460
	Phase	1	3	3	3	3	1	3	3	3	3
	Amps (RLA)	22.3	14	14	6.3	6.3	22.3	14	14	6.3	6.3
	Amps (LRA)	149	150	150	58	58	149	150	150	58	58
Condenser Motor	No.	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	208/230	208/230	208/230	460	460
	Phase	1	1	1	1	1	1	1	1	1	1
	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)	5.3	5.3	5.3	2.3	2.3	5.3	5.3	5.3	2.3	2.3
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	208/230	208/230	208/230	460	460
	Phase	1	1	1	1	1	1	1	1	1	1
	HP	1	1	1-1/2	1	1-1/5	1	1	1-1/2	1	1-1/5
	Amps (FLA, each)	7.6	7.6	11.5	3.5	3.7	7.6	7.6	11.5	3.5	3.7

208/230V Three Phase, 60 Hz, Auxiliary Electric Heater Kit Characteristics and Application													
Single Power Supply for Both Unit and Heater Kit								Separate Power Supply for Both Unit and Heater Kit					
Unit Model Number RACCYB	Heater Kit			Air Conditioner				Heater Kit		Air Conditioner			
	Model No. RXJJ-	Rated Heater kW @ 208/230V	FLA	Unit Min. Ckt. Ampacity	Unit Min. Ckt. Ampacity With Optional Powered Exhaust	Max. Fuse or Ckt. Bkr. Size	Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust	Heater Kit Min. Ckt. Ampacity	Heater Kit Max. Fuse or Ckt. Bkr. Size	Air Cond. Min. Ckt. Ampacity	Air Cond. Min. Ckt. Ampacity with Optional Powered Exhaust	Air Cond. Max. Fuse or Ckt. Bkr. Size	Air Cond. Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust
036ACT	NONE*	—/—	—/—	24/24	27/27	35/35	35/35	—	—	24/24	27/27	35/35	35/35
	DC10CP	7.5/10.0	20.9/24.1	34/38	38/42	35/40	40/45	27/31	30/35	24/24	27/27	35/35	35/35
	DC15CP	11.3/15.0	31.4/36.2	47/53	51/57	50/60	60/60	40/46	40/50	24/24	27/27	35/35	35/35
	DC20CP	15.0/20.0	41.7/48.1	60/68	64/72	60/70	70/80	53/61	60/70	24/24	27/27	35/35	35/35
036ACU	NONE*	—/—	—/—	29/29	32/32	40/40	40/40	—	—	29/29	32/32	40/40	40/40
	DC10CP	7.5/10.0	20.9/24.1	41/45	45/49	45/45	45/50	27/31	30/35	29/29	32/32	40/40	40/40
	DC15CP	11.3/15.0	31.4/36.2	54/60	58/64	60/60	60/70	40/46	40/50	29/29	32/32	40/40	40/40
	DC20CP	15.0/20.0	41.7/48.1	67/75	71/79	70/80	80/80	53/61	60/70	29/29	32/32	40/40	40/40
048ACT	NONE*	—/—	—/—	24/24	27/27	35/35	35/35	—	—	24/24	27/27	35/35	35/35
	DC10CP	7.5/10.0	20.9/24.1	34/38	38/42	35/40	40/45	27/31	30/35	24/24	27/27	35/35	35/35
	DC15CP	11.3/15.0	31.4/36.2	47/53	51/57	50/60	60/60	40/46	40/50	24/24	27/27	35/35	35/35
	DC20CP	15.0/20.0	41.7/48.1	60/68	64/72	60/70	70/80	53/61	60/70	24/24	27/27	35/35	35/35
048ACU	NONE*	—/—	—/—	30/30	33/33	40/40	40/40	—	—	30/30	33/33	40/40	40/40
	DC10CP	7.5/10.0	20.9/24.1	41/45	45/49	45/45	45/50	27/31	30/35	30/30	33/33	40/40	40/40
	DC15CP	11.3/15.0	31.4/36.2	54/60	58/64	60/60	60/70	40/46	40/50	30/30	33/33	40/40	40/40
	DC20CP	15.0/20.0	41.7/48.1	67/75	71/79	70/80	80/80	53/61	60/70	30/30	33/33	40/40	40/40
060ACT	NONE*	—/—	—/—	30/30	33/33	45/45	45/45	—	—	30/30	33/33	45/45	45/45
	DC10CP	7.5/10.0	20.9/24.1	36/40	40/44	45/45	45/45	27/31	30/35	30/30	33/33	45/45	45/45
	DC15CP	11.3/15.0	31.4/36.2	49/55	53/59	50/60	60/60	40/46	40/50	30/30	33/33	45/45	45/45
	DC20CP	15.0/20.0	41.7/48.1	62/70	66/74	70/70	70/80	53/61	60/70	30/30	33/33	45/45	45/45
060ACU	NONE*	—/—	—/—	34/34	37/37	45/45	50/50	—	—	34/34	37/37	45/45	50/50
	DC10CP	7.5/10.0	20.9/24.1	41/45	45/49	45/45	50/50	27/31	30/35	34/34	37/37	45/45	50/50
	DC15CP	11.3/15.0	31.4/36.2	54/60	58/64	60/60	60/70	40/46	40/50	34/34	37/37	45/45	50/50
	DC20CP	15.0/20.0	41.7/48.1	67/75	71/79	70/80	80/80	53/61	60/70	34/34	37/37	45/45	50/50
072ACT	NONE*	—/—	—/—	38/38	41/41	50/50	60/60	—	—	38/38	41/41	50/50	60/60
	DC15CP	11.3/15.0	31.4/36.2	52/58	56/62	60/60	60/70	40/46	40/50	38/38	41/41	50/50	60/60
	DC20CP	15.0/20.0	41.7/48.1	65/73	68/76	70/80	70/80	53/61	60/70	38/38	41/41	50/50	60/60
	DC24CP	18.0/24.0	50.0/57.7	75/85	79/88	80/90	80/90	63/73	70/80	38/38	41/41	50/50	60/60
072ACU	NONE*	—/—	—/—	38/38	41/41	50/50	60/60	—	—	38/38	41/41	50/50	60/60
	DC15CP	11.3/15.0	31.4/36.2	52/58	56/62	60/60	60/70	40/46	40/50	38/38	41/41	50/50	60/60
	DC20CP	15.0/20.0	41.7/48.1	65/73	68/76	70/80	70/80	53/61	60/70	38/38	41/41	50/50	60/60
	DC24CP	18.0/24.0	50.0/57.7	75/85	79/88	80/90	80/90	63/73	70/80	38/38	41/41	50/50	60/60

460V Three Phase, 60 Hz, Auxiliary Electric Heater Kit Characteristics and Application													
Single Power Supply for Both Unit and Heater Kit								Separate Power Supply for Both Unit and Heater Kit					
Unit Model Number RACCYB	Heater Kit			Air Conditioner				Heater Kit		Air Conditioner			
	Model No. RXJJ-	Rated Heater kW @ 460V	FLA	Unit Min. Ckt. Ampacity	Unit Min. Ckt. Ampacity With Optional Powered Exhaust	Max. Fuse or Ckt. Bkr. Size	Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust	Heater Kit Min. Ckt. Ampacity	Heater Kit Max. Fuse or Ckt. Bkr. Size	Air Cond. Min. Ckt. Ampacity	Air Cond. Min. Ckt. Ampacity with Optional Powered Exhaust	Air Cond. Max. Fuse or Ckt. Bkr. Size	Air Cond. Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust
036ADT	NONE*	—	—	10	12	15	15	—	—	10	12	15	15
	DC10DNV	10.0	12.0	19	21	20	25	15	15	10	12	15	15
	DC15DNV	15.0	18.1	26	29	30	30	23	25	10	12	15	15
	DC20DNV	20.0	24.1	34	37	35	40	31	35	10	12	15	15
036ADU	NONE*	—	—	11	13	15	15	—	—	11	13	15	15
	DC10DNV	10.0	12.0	20	22	20	25	15	15	11	13	15	15
	DC15DNV	15.0	18.1	27	30	30	30	23	25	11	13	15	15
	DC20DNV	20.0	24.1	35	38	35	40	31	35	11	13	15	15
048ADT	NONE*	—	—	13	15	15	20	—	—	13	15	15	20
	DC10DNV	10.0	12.0	19	21	20	25	15	15	13	15	15	20
	DC15DNV	15.0	18.1	26	29	30	30	23	25	13	15	15	20
	DC20DNV	20.0	24.1	34	37	35	40	31	35	13	15	15	20
048ADU	NONE*	—	—	13	16	15	20	—	—	13	16	15	20
	DC10DNV	10.0	12.0	20	22	20	25	15	15	13	16	15	20
	DC15DNV	15.0	18.1	27	30	30	30	23	25	13	16	15	20
	DC20DNV	20.0	24.1	35	38	35	40	31	35	13	16	15	20
060ADT	NONE*	—	—	15	17	20	20	—	—	15	17	20	20
	DC10DNV	10.0	12.0	20	22	20	25	15	15	15	17	20	20
	DC15DNV	15.0	18.1	27	30	30	30	23	25	15	17	20	20
	DC20DNV	20.0	24.1	35	38	35	40	31	35	15	17	20	20
060ADU	NONE*	—	—	15	17	20	20	—	—	15	17	20	20
	DC10DNV	10.0	12.0	20	23	20	25	15	15	15	17	20	20
	DC15DNV	15.0	18.1	28	30	30	30	23	25	15	17	20	20
	DC20DNV	20.0	24.1	35	38	35	40	31	35	15	17	20	20
072ADT	NONE*	—	—	18	20	25	25	—	—	18	20	25	25
	DC15DNV	15.0	18.1	28	30	30	30	23	25	18	20	25	25
	DC20DNV	20.0	24.1	35	38	35	40	31	35	18	20	25	25
	DC24DNV	24.0	28.9	41	44	45	45	37	40	18	20	25	25
072ADU	NONE*	—	—	18	20	25	25	—	—	18	20	25	25
	DC15DNV	15.0	18.1	28	30	30	30	23	25	18	20	25	25
	DC20DNV	20.0	24.1	35	38	35	40	31	35	18	20	25	25
	DC24DNV	24.0	28.9	41	44	45	45	37	40	18	20	25	25

208/230V One Phase, 60 Hz, Auxiliary Electric Heater Kit Characteristics and Application													
Single Power Supply for Both Unit and Heater Kit								Separate Power Supply for Both Unit and Heater Kit					
	Heater Kit			Air Conditioner				Heater Kit		Air Conditioner			
Unit Model Number RACCYB	Model No. RXJJ-	Rated Heater kW @ 208/230V	FLA	Unit Min. Ckt. Ampacity	Unit Min. Ckt. Ampacity With Optional Powered Exhaust	Max. Fuse or Ckt. Bkr. Size	Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust	Heater Kit Min. Ckt. Ampacity	Heater Kit Max. Fuse or Ckt. Bkr. Size	Air Cond. Min. Ckt. Ampacity	Air Cond. Min. Ckt. Ampacity with Optional Powered Exhaust	Air Cond. Max. Fuse or Ckt. Bkr. Size	Air Cond. Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust
036AJT	NONE*	—/—	—/—	25/25	28/28	35/35	40/40	—	—	25/25	28/28	35/35	40/40
	DC10JT	7.5/10.0	36.2/41.7	53/60	57/64	60/60	60/70	46/53	50/60	25/25	28/28	35/35	40/40
	DC15JT	11.3/15.0	54.3/62.7	76/86	80/90	80/90	80/90	68/79	70/80	25/25	28/28	35/35	40/40
	DC20JT	15.0/20.0	72.2/83.3	98/112	102/116	100/125	110/125	91/105	100/110	25/25	28/28	35/35	40/40
048AJT	NONE*	—/—	—/—	30/30	34/34	45/45	50/50	—	—	30/30	34/34	45/45	50/50
	DC10JT	7.5/10.0	36.2/41.7	53/60	57/64	60/60	60/70	46/53	50/60	30/30	34/34	45/45	50/50
	DC15JT	11.3/15.0	54.3/62.7	76/86	80/90	80/90	80/90	68/79	70/80	30/30	34/34	45/45	50/50
	DC20JT	15.0/20.0	72.2/83.3	98/112	102/116	100/125	110/125	91/105	100/110	30/30	34/34	45/45	50/50
060AJT	NONE*	—/—	—/—	38/38	41/41	50/50	60/60	—	—	38/38	41/41	50/50	60/60
	DC10JT	7.5/10.0	36.2/41.7	55/62	59/66	60/70	60/70	46/53	50/60	38/38	41/41	50/50	60/60
	DC15JT	11.3/15.0	54.3/62.7	78/88	82/92	80/90	90/100	68/79	70/80	38/38	41/41	50/50	60/60
	DC20JT	15.0/20.0	72.2/83.3	100/114	104/118	100/125	110/125	91/105	100/110	38/38	41/41	50/50	60/60

575V Three Phase, 60 Hz, Auxiliary Electric Heater Kit Characteristics and Application													
Single Power Supply for Both Unit and Heater Kit								Separate Power Supply for Both Unit and Heater Kit					
Unit Model Number RACCYB	Heater Kit			Air Conditioner				Heater Kit		Air Conditioner			
	Model No. RXJJ-	Rated Heater kW @ 575V	FLA	Unit Min. Ckt. Ampacity	Unit Min. Ckt. Ampacity With Optional Powered Exhaust	Max. Fuse or Ckt. Bkr. Size	Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust	Heater Kit Min. Ckt. Ampacity	Heater Kit Max. Fuse or Ckt. Bkr. Size	Air Cond. Min. Ckt. Ampacity	Air Cond. Min. Ckt. Ampacity with Optional Powered Exhaust	Air Cond. Max. Fuse or Ckt. Bkr. Size	Air Cond. Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust
036AYT	NONE*	—	—	9	10	15	15	—	—	9	10	15	15
	DC10Y	10.0	9.6	15	17	15	20	12	15	9	10	15	15
	DC15Y	15.0	14.5	22	23	25	25	19	20	9	10	15	15
	DC20Y	20.0	19.3	28	29	30	30	25	25	9	10	15	15
036AYU	NONE*	—	—	11	12	15	15	—	—	11	12	15	15
	DC10Y	10.0	9.6	18	20	20	20	12	15	11	12	15	15
	DC15Y	15.0	14.5	24	26	25	30	19	20	11	12	15	15
	DC20Y	20.0	19.3	30	32	30	35	25	25	11	12	15	15
048AYT	NONE*	—	—	10	11	15	15	—	—	10	11	15	15
	DC10Y	10.0	9.6	15	17	15	20	12	15	10	11	15	15
	DC15Y	15.0	14.5	22	23	25	25	19	20	10	11	15	15
	DC20Y	20.0	19.3	28	29	30	30	25	25	10	11	15	15
048AYU	NONE*	—	—	12	14	15	15	—	—	12	14	15	15
	DC10Y	10.0	9.6	18	20	20	20	12	15	12	14	15	15
	DC15Y	15.0	14.5	24	26	25	30	19	20	12	14	15	15
	DC20Y	20.0	19.3	30	32	30	35	25	25	12	14	15	15
060AYT	NONE*	—	—	13	14	15	15	—	—	13	14	15	15
	DC10Y	10.0	9.6	16	18	20	20	12	15	13	14	15	15
	DC15Y	15.0	14.5	22	24	25	25	19	20	13	14	15	15
	DC20Y	20.0	19.3	28	30	30	30	25	25	13	14	15	15
060AYU	NONE*	—	—	14	15	20	20	—	—	14	15	20	20
	DC10Y	10.0	9.6	18	20	20	20	12	15	14	15	20	20
	DC15Y	15.0	14.5	24	26	25	30	19	20	14	15	20	20
	DC20Y	20.0	19.3	30	32	30	35	25	25	14	15	20	20
072AYT	NONE*	—	—	13	14	15	20	—	—	13	14	15	20
	DC15Y	15.0	14.5	23	25	25	25	19	20	13	14	15	20
	DC20Y	20.0	19.3	29	31	30	35	25	25	13	14	15	20
	DC24Y	24.0	23.1	34	35	35	35	29	30	13	14	15	20
072AYU	NONE*	—	—	13	14	15	20	—	—	13	14	15	20
	DC15Y	15.0	14.5	23	25	25	25	19	20	13	14	15	20
	DC20Y	20.0	19.3	29	31	30	35	25	25	13	14	15	20
	DC24Y	24.0	23.1	34	35	35	35	29	30	13	14	15	20

208/230V Three Phase, 60 Hz, Auxiliary Electric Heater Kit Characteristics and Application													
Single Power Supply for Both Unit and Heater Kit								Separate Power Supply for Both Unit and Heater Kit					
Unit Model Number RACCYC	Heater Kit			Air Conditioner				Heater Kit		Air Conditioner			
	Model No. RXJJ-	Rated Heater kW @ 208/230V	FLA	Unit Min. Ckt. Ampacity	Unit Min. Ckt. Ampacity With Optional Powered Exhaust	Max. Fuse or Ckt. Bkr. Size	Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust	Heater Kit Min. Ckt. Ampacity	Heater Kit Max. Fuse or Ckt. Bkr. Size	Air Cond. Min. Ckt. Ampacity	Air Cond. Min. Ckt. Ampacity with Optional Powered Exhaust	Air Cond. Max. Fuse or Ckt. Bkr. Size	Air Cond. Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust
036ACT	NONE*	—/—	—/—	22/22	25/25	30/30	30/30	—	—	22/22	25/25	30/30	30/30
	DC10CP	7.5/10.0	20.9/24.1	34/38	38/42	35/40	40/45	27/31	30/35	22/22	25/25	30/30	30/30
	DC15CP	11.3/15.0	31.4/36.2	47/53	51/57	50/60	60/60	40/46	40/50	22/22	25/25	30/30	30/30
	DC20CP	15.0/20.0	41.7/48.1	60/68	64/72	60/70	70/80	53/61	60/70	22/22	25/25	30/30	30/30
036ACU	NONE*	—/—	—/—	28/28	31/31	35/35	40/40	—	—	28/28	31/31	35/35	40/40
	DC10CP	7.5/10.0	20.9/24.1	41/45	45/49	45/45	45/50	27/31	30/35	28/28	31/31	35/35	40/40
	DC15CP	11.3/15.0	31.4/36.2	54/60	58/64	60/60	60/70	40/46	40/50	28/28	31/31	35/35	40/40
	DC20CP	15.0/20.0	41.7/48.1	67/75	71/79	70/80	80/80	53/61	60/70	28/28	31/31	35/35	40/40
048ACT	NONE*	—/—	—/—	27/27	30/30	35/35	40/40	—	—	27/27	30/30	35/35	40/40
	DC10CP	7.5/10.0	20.9/24.1	34/38	38/42	35/40	40/45	27/31	30/35	27/27	30/30	35/35	40/40
	DC15CP	11.3/15.0	31.4/36.2	47/53	51/57	50/60	60/60	40/46	40/50	27/27	30/30	35/35	40/40
	DC20CP	15.0/20.0	41.7/48.1	60/68	64/72	60/70	70/80	53/61	60/70	27/27	30/30	35/35	40/40
048ACU	NONE*	—/—	—/—	32/32	35/35	40/40	45/45	—	—	32/32	35/35	40/40	45/45
	DC10CP	7.5/10.0	20.9/24.1	41/45	45/49	45/45	45/50	27/31	30/35	32/32	35/35	40/40	45/45
	DC15CP	11.3/15.0	31.4/36.2	54/60	58/64	60/60	60/70	40/46	40/50	32/32	35/35	40/40	45/45
	DC20CP	15.0/20.0	41.7/48.1	67/75	71/79	70/80	80/80	53/61	60/70	32/32	35/35	40/40	45/45
060ACT	NONE*	—/—	—/—	31/31	34/34	40/40	45/45	—	—	31/31	34/34	40/40	45/45
	DC10CP	7.5/10.0	20.9/24.1	36/40	40/44	40/40	45/45	27/31	30/35	31/31	34/34	40/40	45/45
	DC15CP	11.3/15.0	31.4/36.2	49/55	53/59	50/60	60/60	40/46	40/50	31/31	34/34	40/40	45/45
	DC20CP	15.0/20.0	41.7/48.1	62/70	66/74	70/70	70/80	53/61	60/70	31/31	34/34	40/40	45/45
060ACU	NONE*	—/—	—/—	35/35	38/38	45/45	50/50	—	—	35/35	38/38	45/45	50/50
	DC10CP	7.5/10.0	20.9/24.1	41/45	45/49	45/45	50/50	27/31	30/35	35/35	38/38	45/45	50/50
	DC15CP	11.3/15.0	31.4/36.2	54/60	58/64	60/60	60/70	40/46	40/50	35/35	38/38	45/45	50/50
	DC20CP	15.0/20.0	41.7/48.1	67/75	71/79	70/80	80/80	53/61	60/70	35/35	38/38	45/45	50/50

460V Three Phase, 60 Hz, Auxiliary Electric Heater Kit Characteristics and Application													
Single Power Supply for Both Unit and Heater Kit								Separate Power Supply for Both Unit and Heater Kit					
Unit Model Number RACCYC	Heater Kit			Air Conditioner				Heater Kit		Air Conditioner			
	Model No. RXJJ-	Rated Heater kW @ 460V	FLA	Unit Min. Ckt. Ampacity	Unit Min. Ckt. Ampacity With Optional Powered Exhaust	Max. Fuse or Ckt. Bkr. Size	Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust	Heater Kit Min. Ckt. Ampacity	Heater Kit Max. Fuse or Ckt. Bkr. Size	Air Cond. Min. Ckt. Ampacity	Air Cond. Min. Ckt. Ampacity with Optional Powered Exhaust	Air Cond. Max. Fuse or Ckt. Bkr. Size	Air Cond. Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust
036ADT	NONE*	—	—	11	13	15	15	—	—	11	13	15	15
	DC10DNV	10.0	12.0	19	21	20	25	15	15	11	13	15	15
	DC15DNV	15.0	18.1	26	29	30	30	23	25	11	13	15	15
	DC20DNV	20.0	24.1	34	37	35	40	31	35	11	13	15	15
036ADU	NONE*	—	—	12	14	15	15	—	—	12	14	15	15
	DC10DNV	10.0	12.0	20	22	20	25	15	15	12	14	15	15
	DC15DNV	15.0	18.1	27	30	30	30	23	25	12	14	15	15
	DC20DNV	20.0	24.1	35	38	35	40	31	35	12	14	15	15
048ADT	NONE*	—	—	14	16	20	20	—	—	14	16	20	20
	DC10DNV	10.0	12.0	19	21	20	25	15	15	14	16	20	20
	DC15DNV	15.0	18.1	26	29	30	30	23	25	14	16	20	20
	DC20DNV	20.0	24.1	34	37	35	40	31	35	14	16	20	20
048ADU	NONE*	—	—	15	17	20	20	—	—	15	17	20	20
	DC10DNV	10.0	12.0	20	22	20	25	15	15	15	17	20	20
	DC15DNV	15.0	18.1	27	30	30	30	23	25	15	17	20	20
	DC20DNV	20.0	24.1	35	38	35	40	31	35	15	17	20	20
060ADT	NONE*	—	—	14	16	20	20	—	—	14	16	15	20
	DC10DNV	10.0	12.0	20	22	20	25	15	15	14	16	15	20
	DC15DNV	15.0	18.1	27	30	30	30	23	25	14	16	15	20
	DC20DNV	20.0	24.1	35	38	35	40	31	35	14	16	15	20
060ADU	NONE*	—	—	14	16	20	20	—	—	14	16	20	20
	DC10DNV	10.0	12.0	20	23	20	25	15	15	14	16	20	20
	DC15DNV	15.0	18.1	28	30	30	30	23	25	14	16	20	20
	DC20DNV	20.0	24.1	35	38	35	40	31	35	14	16	20	20

208/230V One Phase, 60 Hz, Auxiliary Electric Heater Kit Characteristics and Application													
Single Power Supply for Both Unit and Heater Kit								Separate Power Supply for Both Unit and Heater Kit					
Unit Model Number RACCYC	Heater Kit			Air Conditioner				Heater Kit		Air Conditioner			
	Model No. RXJJ-	Rated Heater kW @ 208/230V	FLA	Unit Min. Ckt. Ampacity	Unit Min. Ckt. Ampacity With Optional Powered Exhaust	Max. Fuse or Ckt. Bkr. Size	Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust	Heater Kit Min. Ckt. Ampacity	Heater Kit Max. Fuse or Ckt. Bkr. Size	Air Cond. Min. Ckt. Ampacity	Air Cond. Min. Ckt. Ampacity with Optional Powered Exhaust	Air Cond. Max. Fuse or Ckt. Bkr. Size	Air Cond. Max. Fuse or Ckt. Bkr. Size with Optional Powered Exhaust
036AJT	NONE*	—/—	—/—	28/28	31/31	40/40	45/45	—	—	28/28	31/31	40/40	45/45
	DC10JT	7.5/10.0	36.2/41.7	53/60	57/64	60/60	60/70	46/53	50/60	28/28	31/31	40/40	45/45
	DC15JT	11.3/15.0	54.3/62.7	76/86	80/90	80/90	80/90	68/79	70/80	28/28	31/31	40/40	45/45
	DC20JT	15.0/20.0	72.2/83.3	98/112	102/116	100/125	110/125	91/105	100/110	28/28	31/31	40/40	45/45
048AJT	NONE*	—/—	—/—	35/35	38/38	50/50	50/50	—	—	35/35	38/38	50/50	50/50
	DC10JT	7.5/10.0	36.2/41.7	53/60	57/64	60/60	60/70	46/53	50/60	35/35	38/38	50/50	50/50
	DC15JT	11.3/15.0	54.3/62.7	76/86	80/90	80/90	80/90	68/79	70/80	35/35	38/38	50/50	50/50
	DC20JT	15.0/20.0	72.2/83.3	98/112	102/116	100/125	110/125	91/105	100/110	35/35	38/38	50/50	50/50
060AJT	NONE*	—/—	—/—	41/41	44/44	60/60	60/60	—	—	41/41	44/44	60/60	60/60
	DC10JT	7.5/10.0	36.2/41.7	55/62	59/66	60/70	60/70	46/53	50/60	41/41	44/44	60/60	60/60
	DC15JT	11.3/15.0	54.3/62.7	78/88	82/92	80/90	90/100	68/79	70/80	41/41	44/44	60/60	60/60
	DC20JT	15.0/20.0	72.2/83.3	100/114	104/118	100/125	110/125	91/105	100/110	41/41	44/44	60/60	60/60

A2L REFRIGERANT INSTALLATION SAFETY DATA

		RACCYB036	RACCYB036 w/HumidiDry	RACCYB048	RACCYB048 w/HumidiDry	RACCYB060	RACCYB060 w/HumidiDry	RACCYB072	RACCYB072 w/HumidiDry
Refrigerant Charge Weight (oz)		72	101	67	110	80	105	85	123
Minimum Circulation Airflow, Qmin (CFM)		239	336	223	366	266	349	283	409
Installed Altitude (ft above sea level)	**Altitude Adjustment Factor**	**Minimum Total Conditioned Room Area, TAmin (sq. ft.)**							
0	1.000	133	186	123	203	147	194	157	227
1000	1.025	136	191	127	208	151	198	161	232
2000	1.051	139	196	130	213	155	203	165	238
3000	1.078	143	201	133	219	159	209	169	244
4000	1.107	147	206	137	224	163	214	173	251
5000	1.138	151	212	141	231	168	220	178	258
6000	1.170	155	218	144	237	173	226	183	265
6500	1.187	158	221	147	241	175	230	186	269

		RACCYC036	RACCYC036 w/HumidiDry	RACCYC048	RACCYC048 w/HumidiDry	RACCYC060	RACCYC060 w/HumidiDry
Refrigerant Charge Weight (oz)		66	106	75	116	81	121
Minimum Circulation Airflow, Qmin (CFM)		220	353	249	386	269	402
Altitude Above Sea Level (Ft.)	**Altitude Adjustment Factor**	**Minimum Total Conditioned Room Area, TAmin (Sq. Ft.)**					
0	1.000	122	195	138	214	149	223
1000	1.025	125	200	142	219	153	229
2000	1.051	128	205	145	225	157	234
3000	1.078	131	211	149	230	161	240
4000	1.107	135	216	153	237	165	247
5000	1.138	138	222	157	243	170	254
6000	1.170	142	229	162	250	175	261
6500	1.187	144	232	164	254	177	265

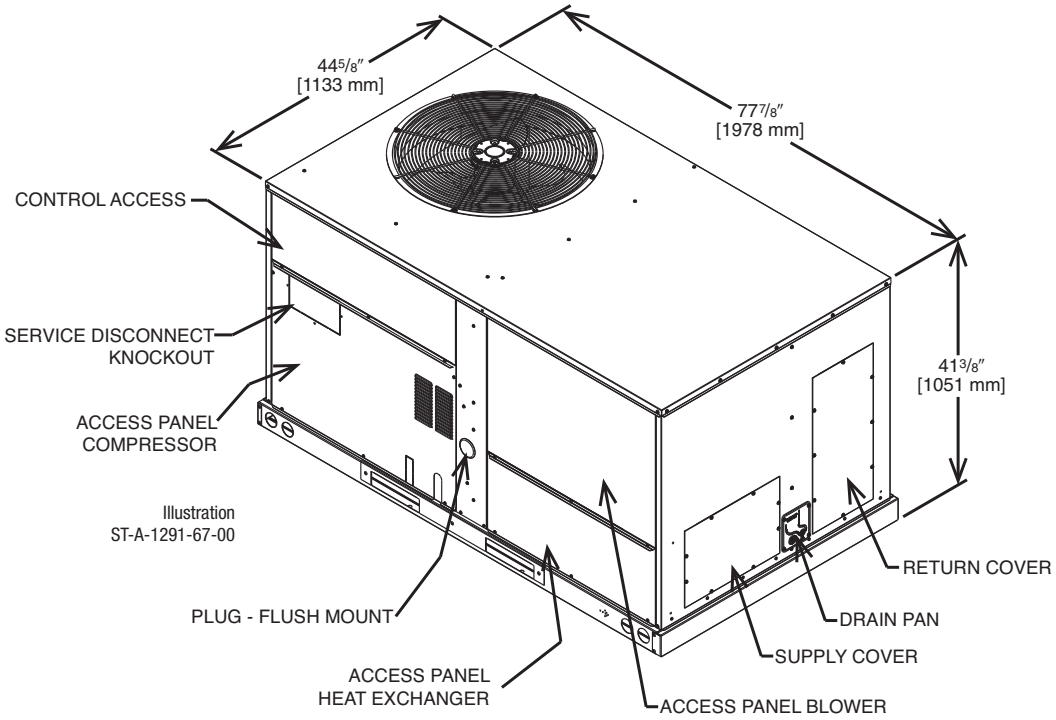


Illustration
ST-A-1291-67-00

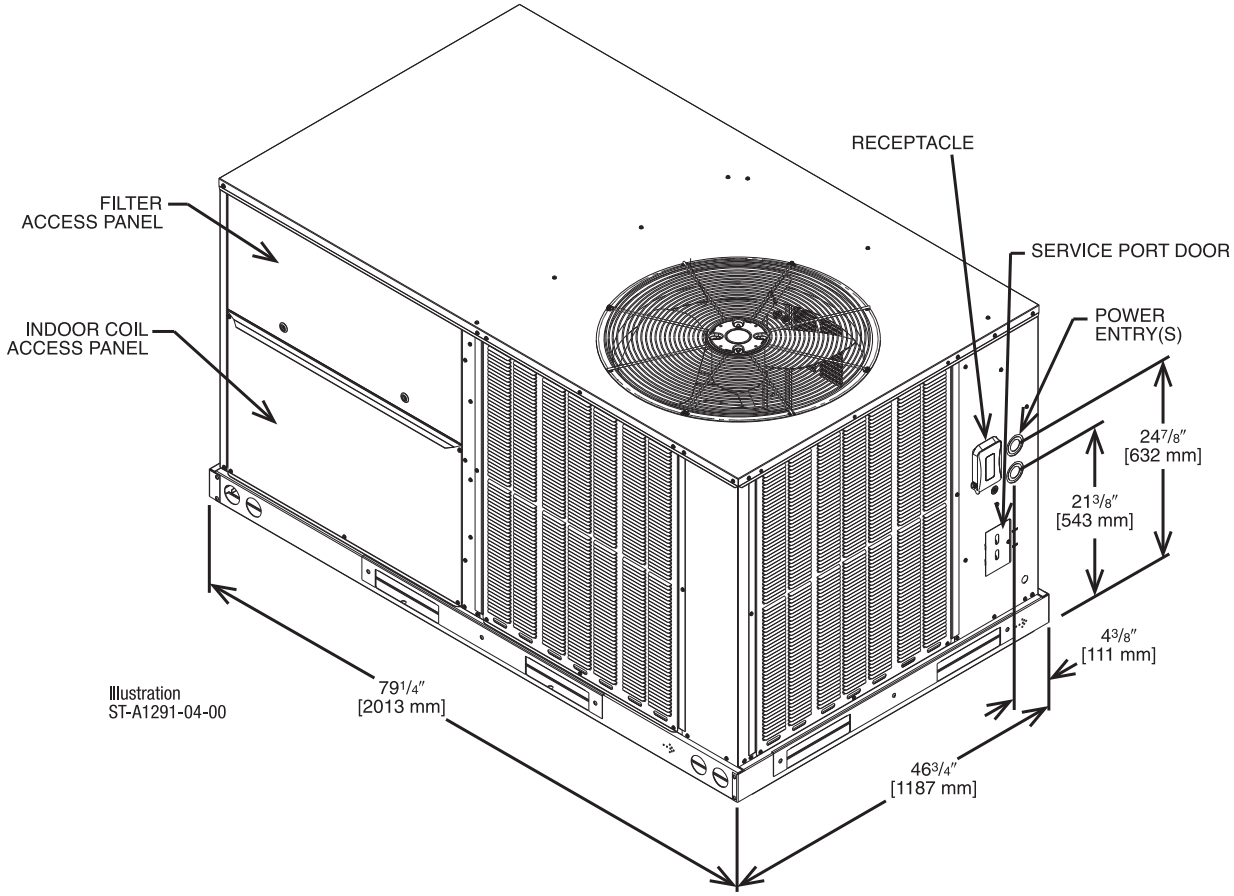
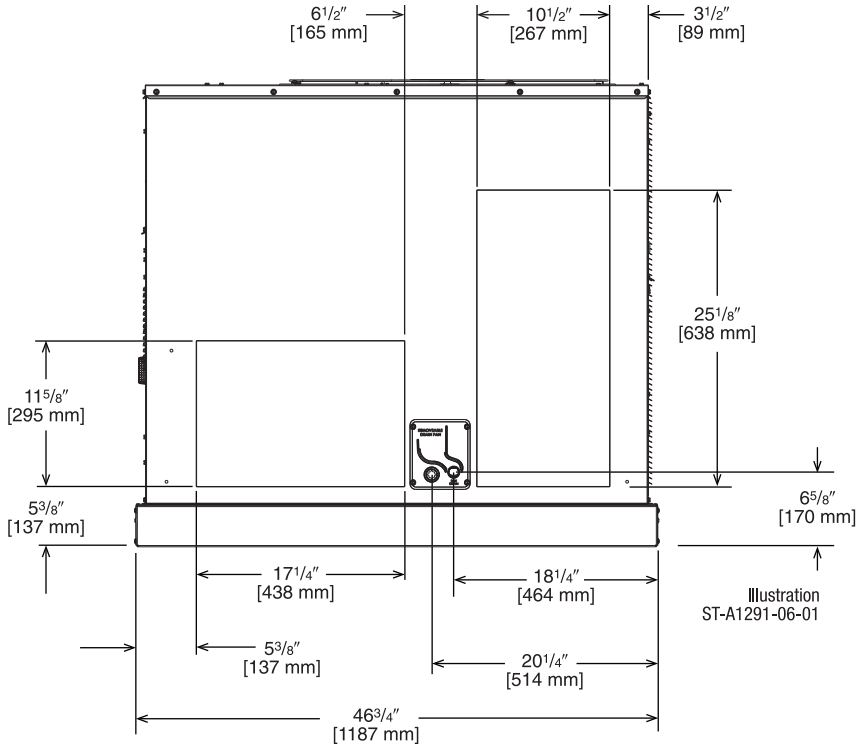


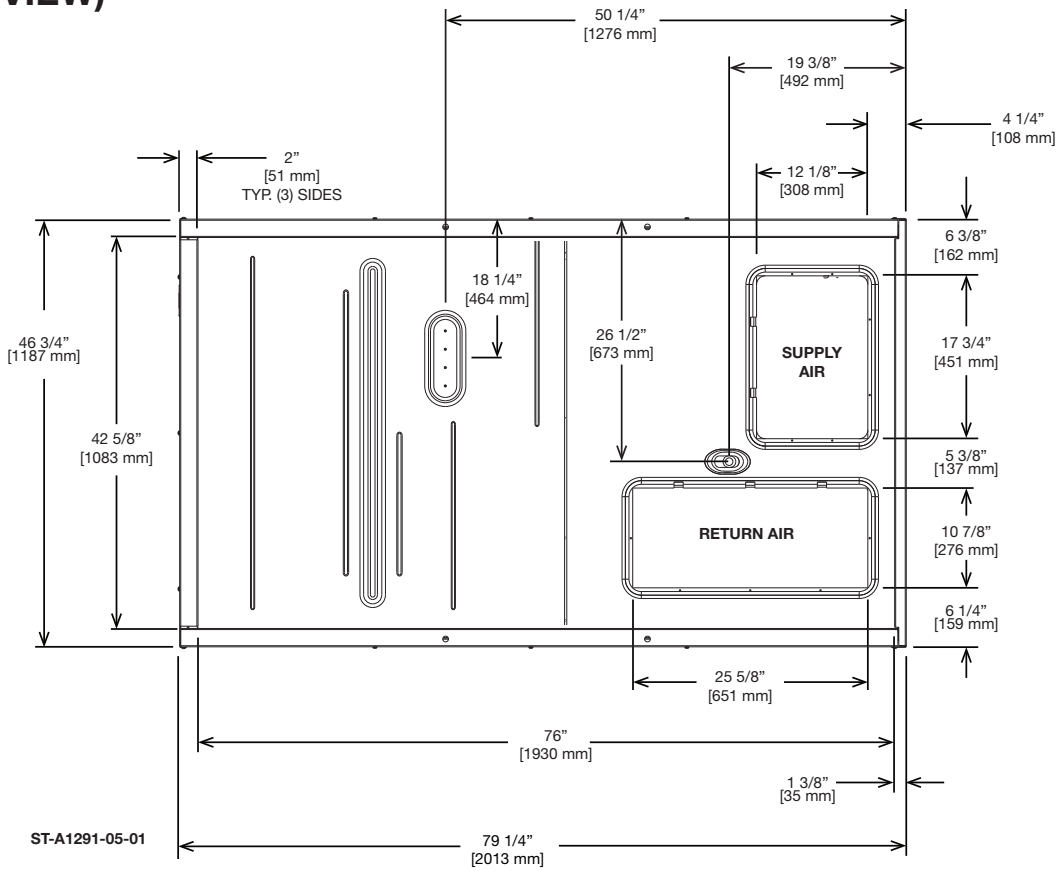
Illustration
ST-A1291-04-00

[ ] Designates Metric Conversions

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATIONS (SIDE VIEW)



SUPPLY AND RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS (BOTTOM VIEW)



[ ] Designates Metric Conversions

WEIGHTS

Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
3.0-6.0 [10.6-21.1]	21%	40%	12%	27%

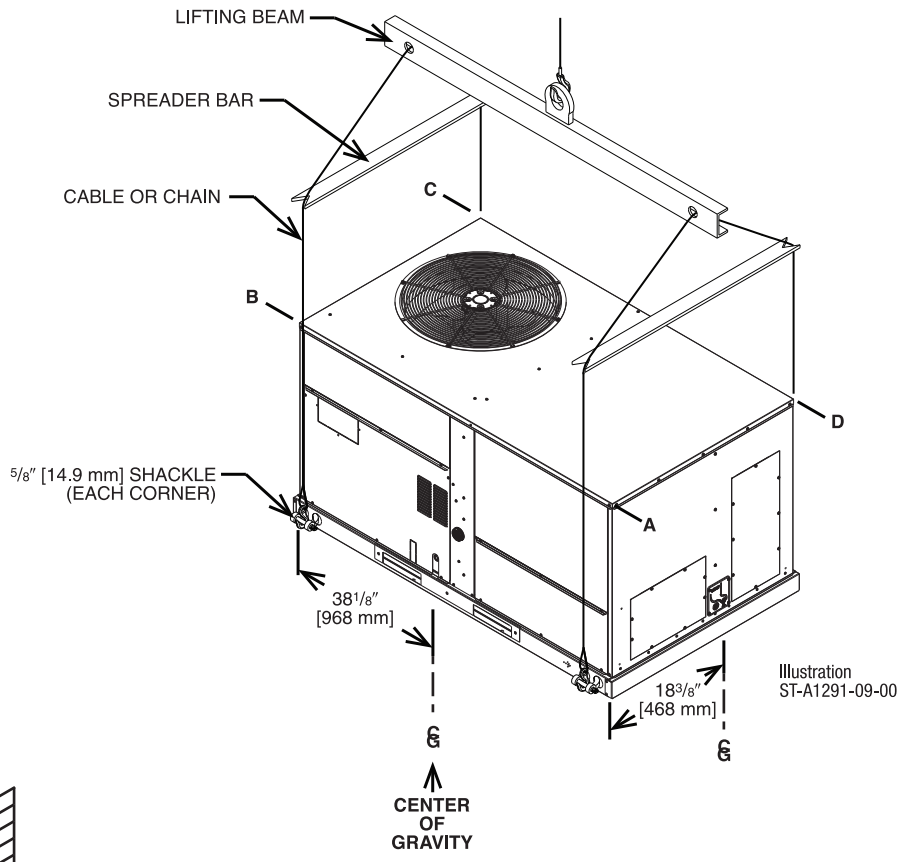


Illustration
ST-A1291-09-00

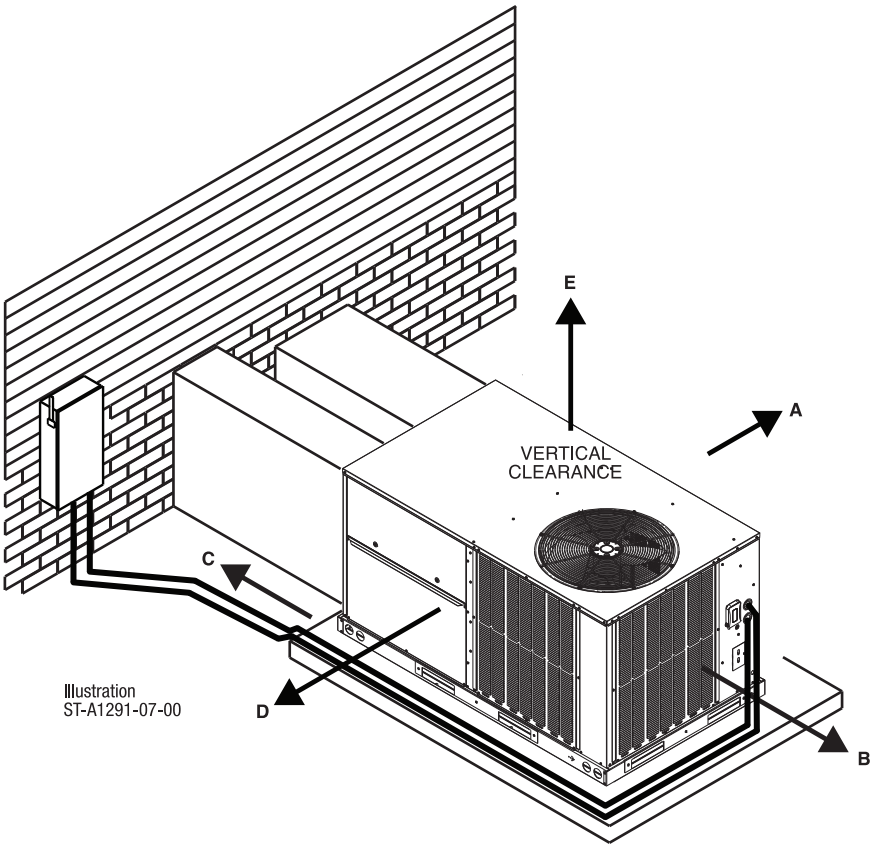


Illustration
ST-A1291-07-00

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	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Economizers				
DDC Economizer with Single Enthalpy (Downflow) *MicroMetl Economizer with Honeywell Controller*	RXRD-01MCDBM3	100 [45.4]	66 [29.9]	No
DDC Economizer with Single Enthalpy (Horizontal) *MicroMetl Economizer with Honeywell Controller*	RXRD-01MCHBM3	72 [32.7]	69 [31.3]	No
Non-DDC Economizer with No Controls (Downflow) *MicroMetl Economizer, Belimo Actuator*	RXRD-31MCDAM3	100 [45.4]	66 [29.9]	No
Non-DDC Economizer with Single Enthalpy (Downflow) *MicroMetl Economizer with Siemens Controls*	RXRD-11MCDAM3	100 [45.4]	66 [29.9]	Yes
Non-DDC Economizer with Single Enthalpy (Downflow) *RRS Economizer with RRS Basic Controller*	RXRD-41MCDAM3	100 [45.4]	66 [29.9]	No
Non-DDC Economizer with Single Enthalpy (Downflow) *RRS Economizer with Siemens Controls*	RXRD-51MCDAM3	100 [45.4]	66 [29.9]	No
Non-DDC Economizer with Single Enthalpy (Horizontal) *MicroMetl Economizer with Siemens Controls*	RXRD-11MCHAM3	72 [32.7]	69 [31.3]	No
Non-DDC Economizer with Single Enthalpy (Horizontal) *RRS Economizer with RRS Basic Controller*	RXRD-41MCHAM3	72 [32.7]	69 [31.3]	No
Non-DDC Economizer with Single Enthalpy (Horizontal) *RRS Economizer with Siemens Controls*	RXRD-51MCHAM3	72 [32.7]	69 [31.3]	No
Economizer Universal DDC Interface Kit	RXRX-DDC01	5 [2.7]	3.5 [1.6]	Yes[1]

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Comfort Alert (1 Phase) DDC	RXRX-AZ03	3 [1.5]	2 [0.9]	Yes
Comfort Alert (1 Phase) Non-DDC	RXRX-AZ04	3 [1.5]	2 [0.9]	Yes
Comfort Alert (3 Phase) DDC	RXRX-AZ01	3 [1.5]	2 [0.9]	Yes
Comfort Alert (3 Phase) Non-DDC	RXRX-AZ02	3 [1.5]	2 [0.9]	Yes
Communication Card, BACnet	RXRX-AY01	1 [0.5]	1 [0.5]	No
Communication Card, LonWorks	RXRX-AY02	1 [0.5]	1 [0.5]	No
Concentric Adapter 3-4 Ton Drop	RXMC-DC01	35 [15.9]	30 [13.6]	No
Concentric Adapter 5-6 Ton Drop	RXMC-DC02	40 [18.2]	35 [15.9]	No
Concentric Diffuser 3-4 Ton Drop	RXRN-AED1800	35 [15.9]	30 [13.6]	No
Concentric Diffuser 5-6 Ton Drop	RXRN-AED2000	35 [15.9]	30 [13.6]	No
Concentric Diffuser 3-4 Ton Flush	RXRN-AEF1800	30 [13.6]	25 [11.3]	No
Concentric Diffuser 5-6 Ton Flush	RXRN-AEF2000	30 [13.6]	25 [11.3]	No
Convenience Outlet, Non-Powered	RXRX-BN01	2 [1.0]	1.5 [0.7]	Yes
Dual Enthalpy Kit DDC (for Honeywell DDC)	RXRX-BV02	1 [0.5]	1 [0.5]	No
Dual Enthalpy, Temperature and Humidity Sensor (for Ruskin Basic Controller)	PD955977	1 [0.5]	1 [0.5]	No
Dual Enthalpy, Temperature and Humidity Sensor (for Siemens)	PD555460	1 [0.5]	1 [0.5]	No

[1]When a factory installed economizer is selected in the unit option codes, this accessory is automatically factory installed if required.

[ ] Designates Metric Conversions

FIELD-INSTALLED ACCESSORY EQUIPMENT (CONTINUED)

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Electric Heater Kits[2]	RXJJ-DC10JT	10 [4.5]	8 [3.6]	Yes
	RXJJ-DC15JT	13 [5.9]	11 [5.0]	Yes
	RXJJ-DC20JT	14 [6.4]	12 [5.4]	Yes
	RXJJ-DC10CP	10 [4.5]	8 [3.6]	Yes
	RXJJ-DC15CP	13 [5.9]	11 [5.0]	Yes
	RXJJ-DC20CP	14 [6.4]	12 [5.4]	Yes
	RXJJ-DC24CP	14 [6.4]	12 [5.4]	Yes
	RXJJ-DC10DNV	10 [4.5]	8 [3.6]	Yes
	RXJJ-DC15DNV	13 [5.9]	11 [5.0]	Yes
	RXJJ-DC20DNV	14 [6.4]	12 [5.4]	Yes
	RXJJ-DC24DNV	14 [6.4]	12 [5.4]	Yes
	RXJJ-DC10Y	10 [4.5]	8 [3.6]	No
	RXJJ-DC15Y	13 [5.9]	11 [5.0]	No
	RXJJ-DC20Y	14 [6.4]	12 [5.4]	No
	RXJJ-DC24Y	14 [6.4]	12 [5.4]	No
Freeze Stat Kit	RXRX-AM05	2 [1.0]	1.5 [0.7]	Yes
Fresh Air Damper, Manual	RXRF-ACA1	22 [10.0]	18 [8.2]	No
Fresh Air Damper, Motorized	RXRF-ACB1	53 [24.0]	43 [19.5]	No
Low-Ambient Control Kit	RXRZ-A04	4 [1.8]	3 [1.4]	Yes
MERV 8 Filter	RXMF-M08A21616	2 [0.9]	1 [0.45]	No
MERV 13 Filter	RXMF-M13A21616	2 [0.9]	1 [0.45]	No
Outdoor Coil Louver Kit	RXRX-ADD04C	30 [13.6]	25 [11.3]	Yes
Power Exhaust (230V) Vertical *MicroMetl*	RXRX-CCF02C	24 [10.9]	21 [9.5]	No
Power Exhaust (460V) Vertical *MicroMetl*	RXRX-CCF02D	20 [9.1]	17 [7.7]	No
Power Exhaust (230V) Horizontal *MicroMetl*	RXRX-CCF03C	42 [19.1]	39 [17.7]	No
Power Exhaust (460V) Horizontal *MicroMetl*	RXRX-CCF03D	42 [19.1]	39 [17.7]	No
Power Exhaust (230V) Vertical *RRS*	RXRX-RCF02C	24 [10.9]	21 [9.5]	No
Power Exhaust (460V) Vertical *RRS*	RXRX-RCF02D	20 [9.1]	17 [7.7]	No
Power Exhaust (575V) Vertical *RRS*	RXRX-RCF02Y	20 [9.1]	17 [7.7]	No
Power Exhaust (230V) Horizontal *RRS*	RXRX-RCF03C	42 [19.1]	39 [17.7]	No
Power Exhaust (460V) Horizontal *RRS*	RXRX-RCF03D	42 [19.1]	39 [17.7]	No
Power Exhaust (575V) Horizontal *RRS*	RXRX-RCF03Y	42 [19.1]	39 [17.7]	No
Roofcurb, 14"	RXKG-DCC14	94 [42.6]	90 [40.8]	No
Roofcurb, 14" Welded	RXKG-DC14	94 [42.6]	90 [40.8]	No
Roofcurb, 24"	RXKG-DCC24	124 [56.2]	120 [54.4]	No
Roofcurb, 24" Welded	RXKG-DC24	124 [56.2]	120 [54.4]	No
Roofcurb Adapter	RXRX-DCCAE	159 [72.1]	145 [65.8]	No
Sensor, Carbon Dioxide (Wall Mount)	RXRX-AR02	1 [0.5]	1 [0.5]	No
Sensor, Room Humidity	RHC-ZNS4	1 [0.5]	1 [0.5]	No
Sensor, Room Temperature and Relative Humidity	RHC-ZNS5	1 [0.5]	1 [0.5]	No
Single Point Wiring Kits	RXJX-AJ0601 (Single Phase)	20 [9.1]	17 [7.7]	No
	RXJX-AZ0601 (Three Phase)	23 [10.4]	20 [9.1]	No
Smoke Detector, Return (Field kit)	RXRX-BS01	7 [3.2]	6 [2.7]	No
Smoke Detector, Return/ Supply (Field kit)	RXRX-BS02	5 [2.3]	4 [1.8]	No
Unfused Service Disconnect	RXRX-BP01	10 [4.5]	9 [4.1]	Yes
UV-C Kit 208V/230V	RXRX-UVC22C	8 [3.6]	6 [2.7]	No
UV-C Transformer 460V/575V	RXRX-UVCTC	12 [5.4]	11 [5.0]	No

[2]10kW options not available on 6 Ton models.

[ ] Designates Metric Conversions

COMMUNICATION CARDS

BACnet COMMUNICATION CARD RXRX-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 RXRX-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.

ELECTRIC HEAT AND SINGLE POINT WIRING

The field or factory electric heater kits are available in 10, 15 and 20 kW heating inputs, and for both single and 3-phase applications. The single point wiring kit is only available as a field installation accessory for units using electric heat.

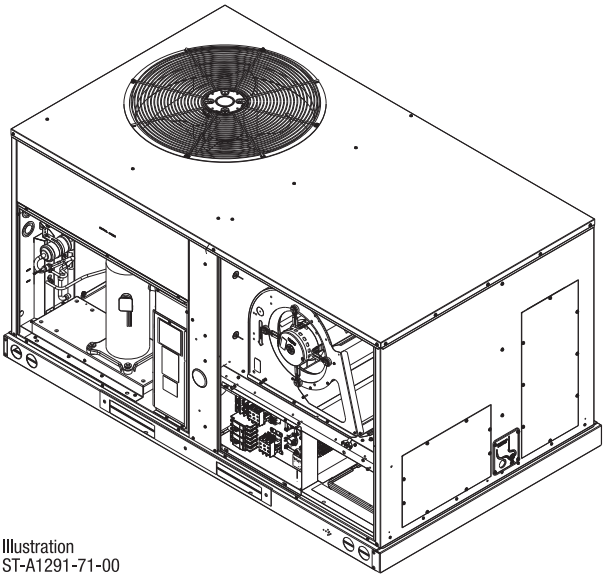
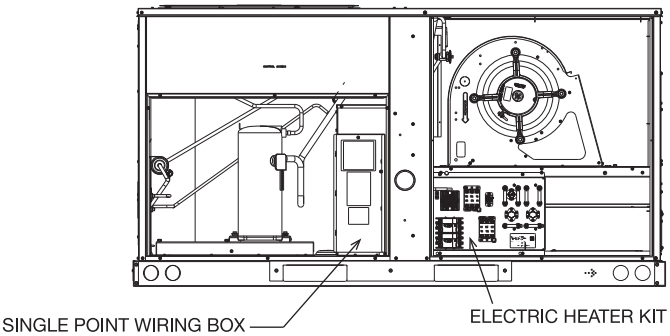


Illustration
ST-A1291-71-00



DOWNFLOW TRANSITION DRAWINGS

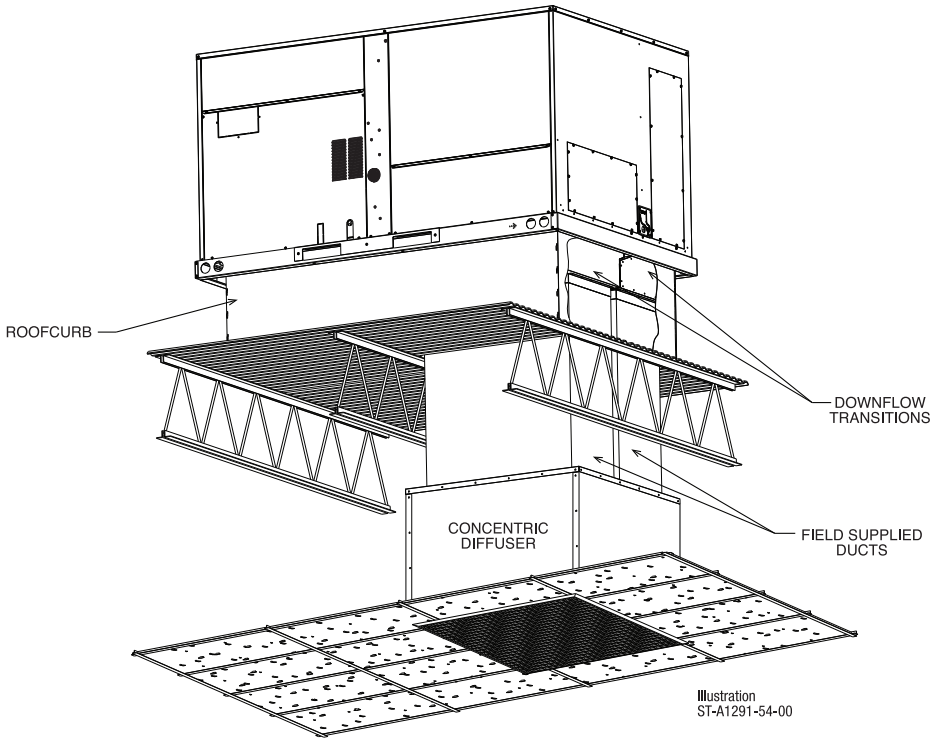


Illustration
ST-A1291-54-00

RXMC-DC01—Concentric Adapter 3 & 4 Ton Drop

- Used with RXRN-AEF1800 or RXRN-AED1800 Concentric Diffusers

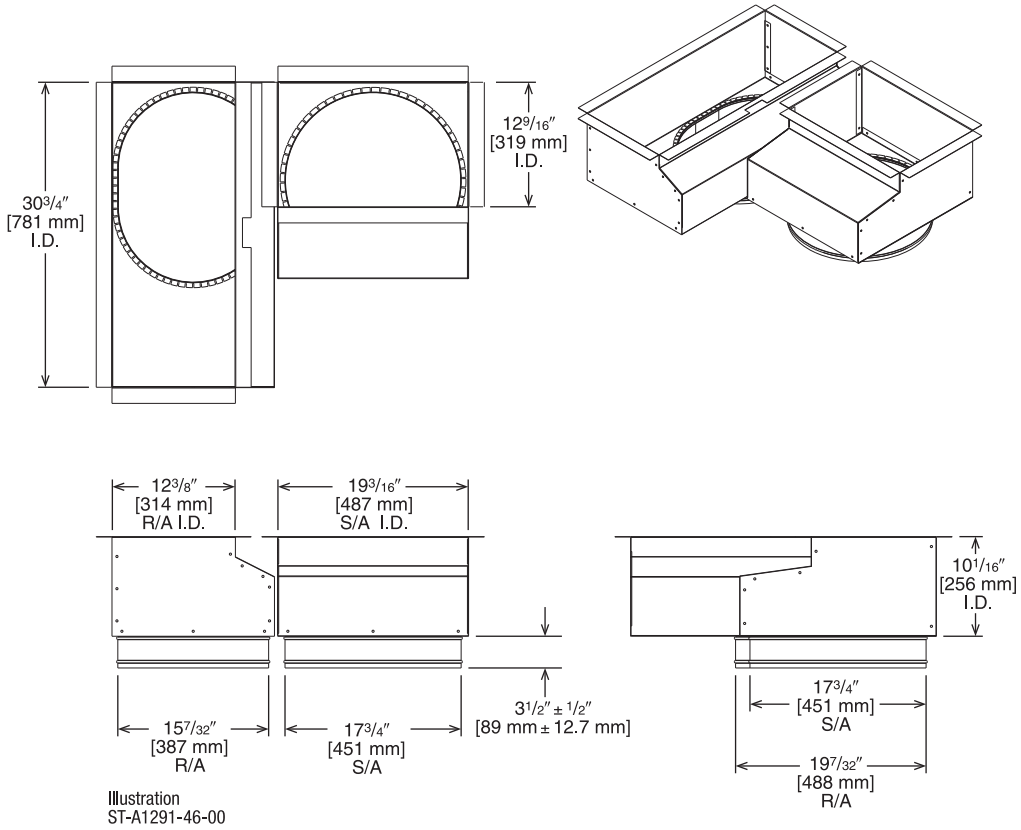


Illustration
ST-A1291-46-00

[ ] Designates Metric Conversions

DOWNFLOW TRANSITION DRAWINGS

RXMC-DC02—Concentric Adapter 5 & 6 Ton Drop

- Used with RXRN-AEF2000 or RXRN-AED2000 Concentric Diffusers

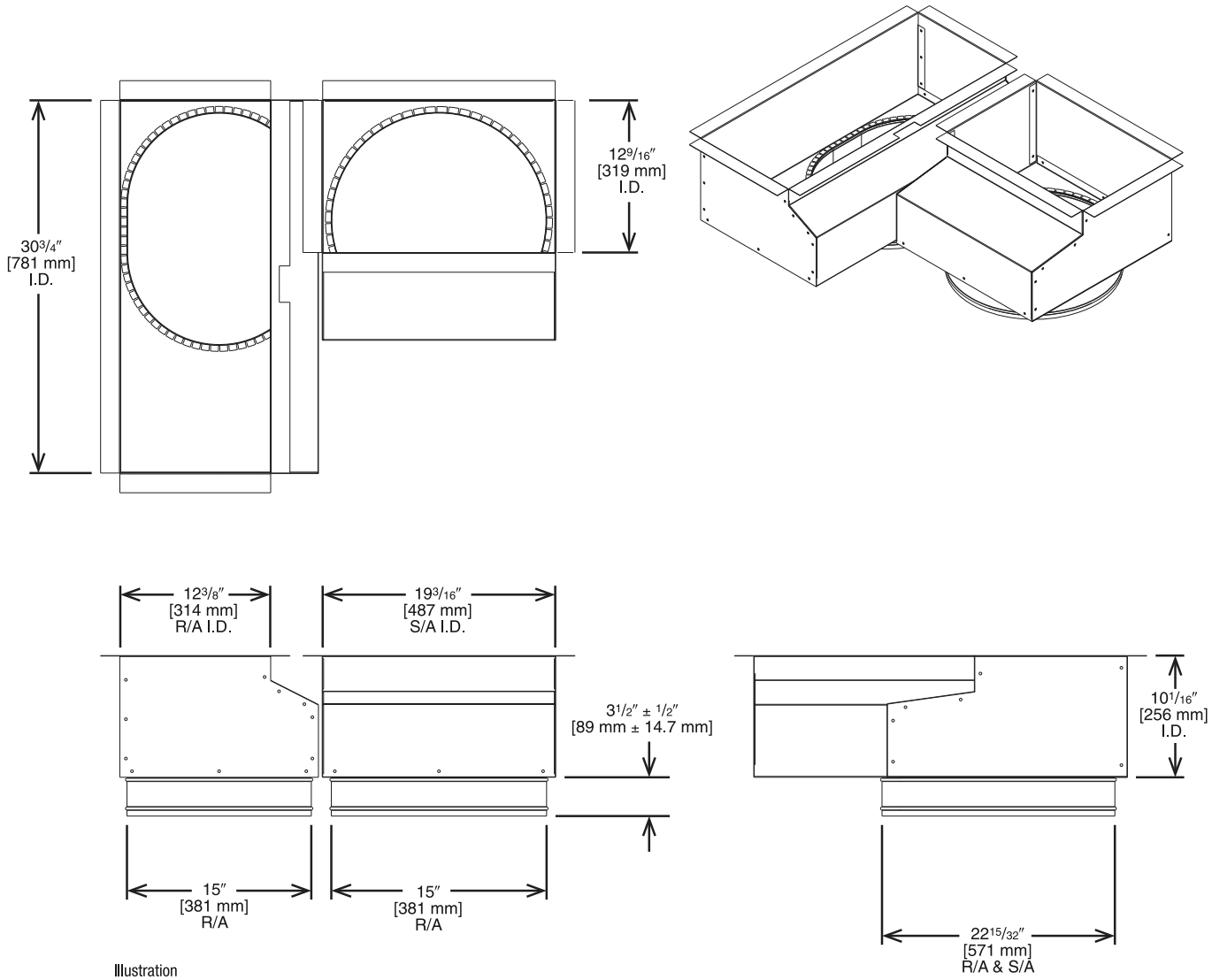


Illustration
ST-A1291-47-00

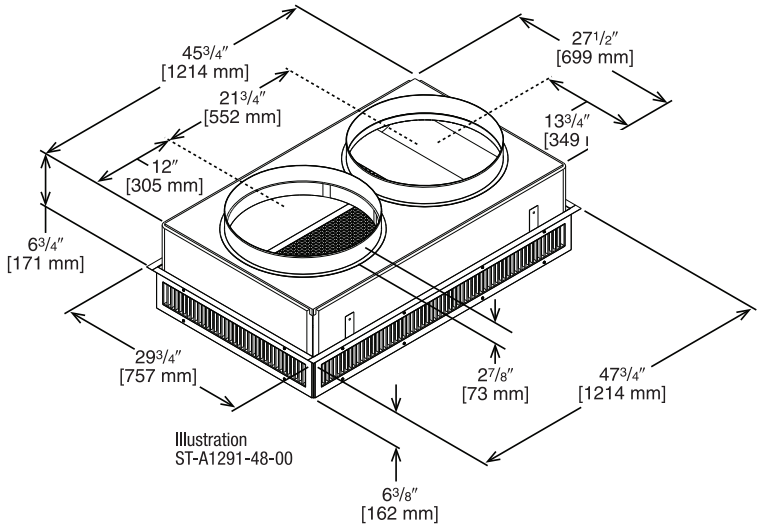
[ ] Designates Metric Conversions

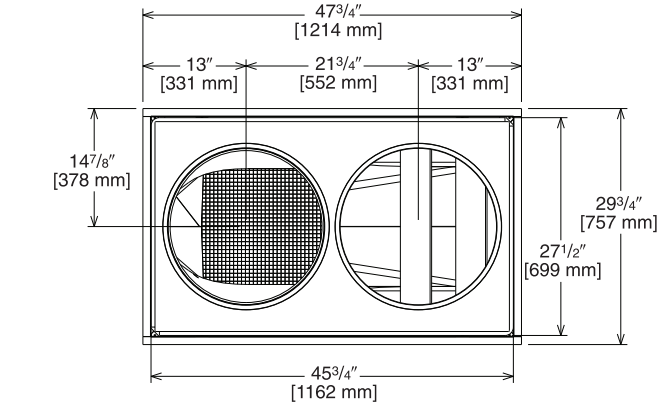
CONCENTRIC DIFFUSER—3 & 4 TON DROP

RXRN-AED1800

For Use With Downflow Transition (RXMC-DC01) and 18" [457 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 sheet metal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner





ENGINEERING DATA①

Model No.	Flow Rate CFM [L/s]	Throw ② ③ Feet [m]	Neck Velocity fpm [m/s]	Noise Level ④ (dbA)
RXRN-AED1800	1000 [472]	9-23 [2.7-7.0]	391 [2.0]	12
	1200 [566]	10-24 [3.0-7.3]	469 [2.4]	15
	1400 [661]	12-26 [3.7-7.9]	547 [2.8]	19
	1600 [755]	13-28 [4.0-8.5]	625 [3.2]	21
	1800 [849]	15-30 [4.6-9.1]	703 [3.6]	26
	2000 [944]	17-32 [5.2-9.8]	781 [4.0]	30
	2400 [1133]	19-34 [5.8-10.4]	859 [5.8]	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.

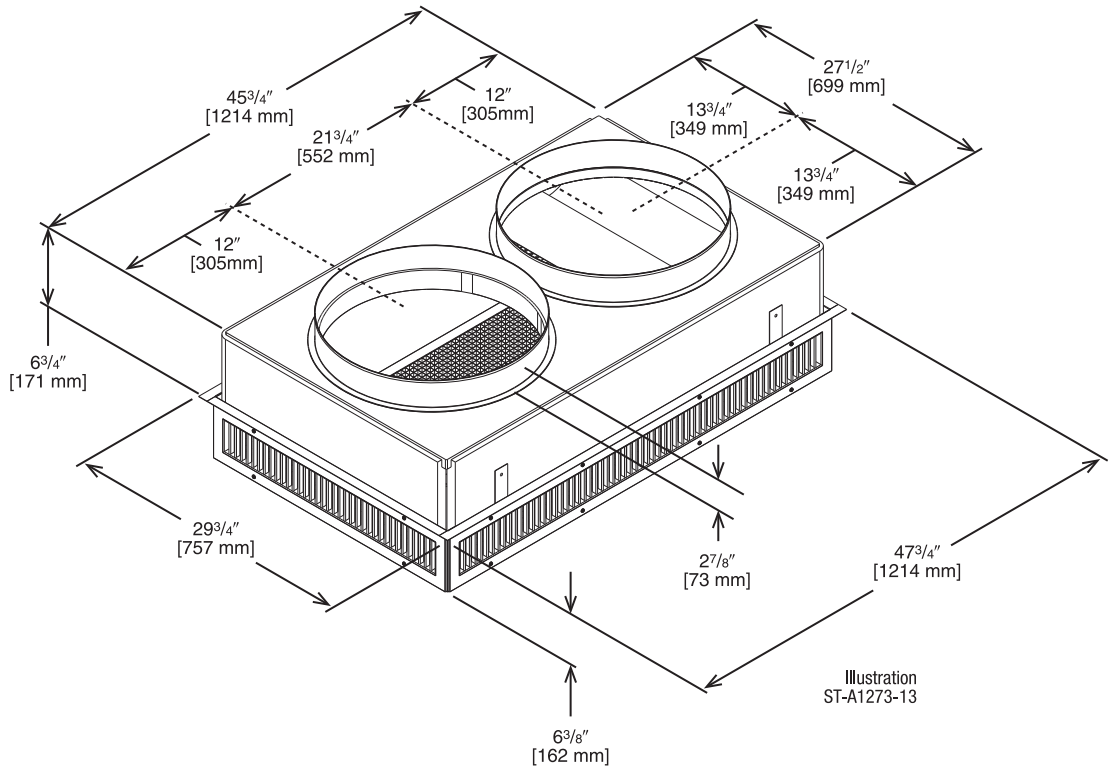
[ ] Designates Metric Conversions

CONCENTRIC DIFFUSER—5 & 6 TON DROP

RXRN-AED2000

For Use With Downflow Transition (RXMC-DC02) 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 sheet metal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner



ENGINEERING DATA①

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

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—3 & 4 TON FLUSH

RXRN-AEF1800

For Use With Downflow Transition (RXMC-DC01)
18" [457 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 sheet metal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner

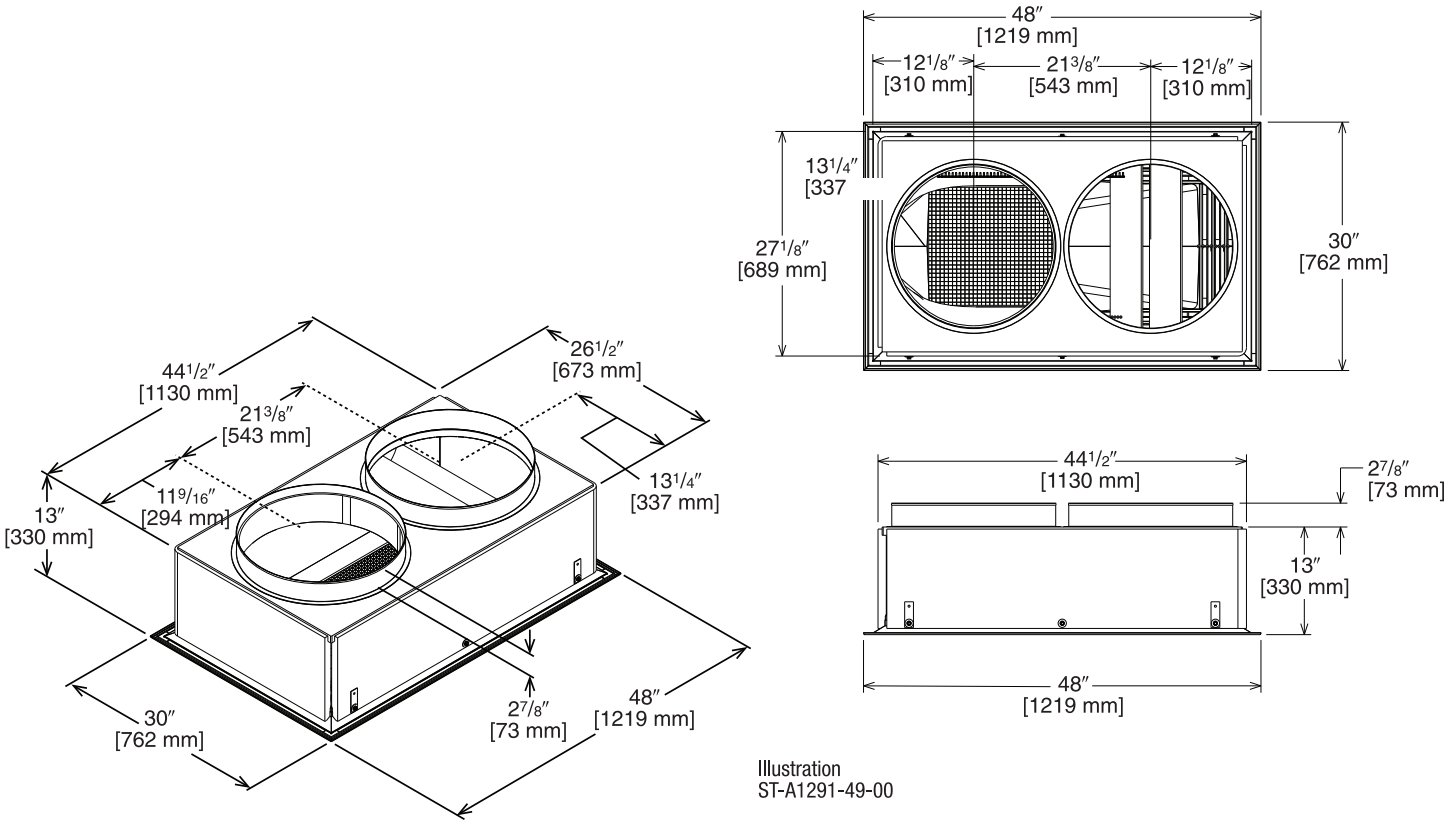


Illustration
ST-A1291-49-00

ENGINEERING DATA①

Model No.	Flow Rate CFM [L/s]	Throw ② ③ Feet [m]	Neck Velocity fpm [m/s]	Noise Level ④ (dbA)
RXRN-AEF1800	1000 [472]	9-12 [2.7-3.7]	663 [3.4]	20
	1200 [566]	12-16 [3.7-4.9]	714 [3.6]	25
	1400 [661]	15-20 [4.6-6.1]	765 [3.9]	30
	1600 [755]	17-23 [5.2-7]	816 [4.1]	30
	1800 [849]	20-26 [6.1-7.9]	867 [4.4]	35
	2000 [944]	22-29 [6.7-8.8]	918 [4.7]	40
	2400 [1133]	25-32 [7.6-9.8]	969 [4.9]	45

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—5 & 6 TON FLUSH

RXRN-AEF2000

For Use With Downflow Transition (RXMC-DC02)
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 sheet metal insulated with 1" [25.4 mm] 1.5 lbs. [.7 kg] duct liner

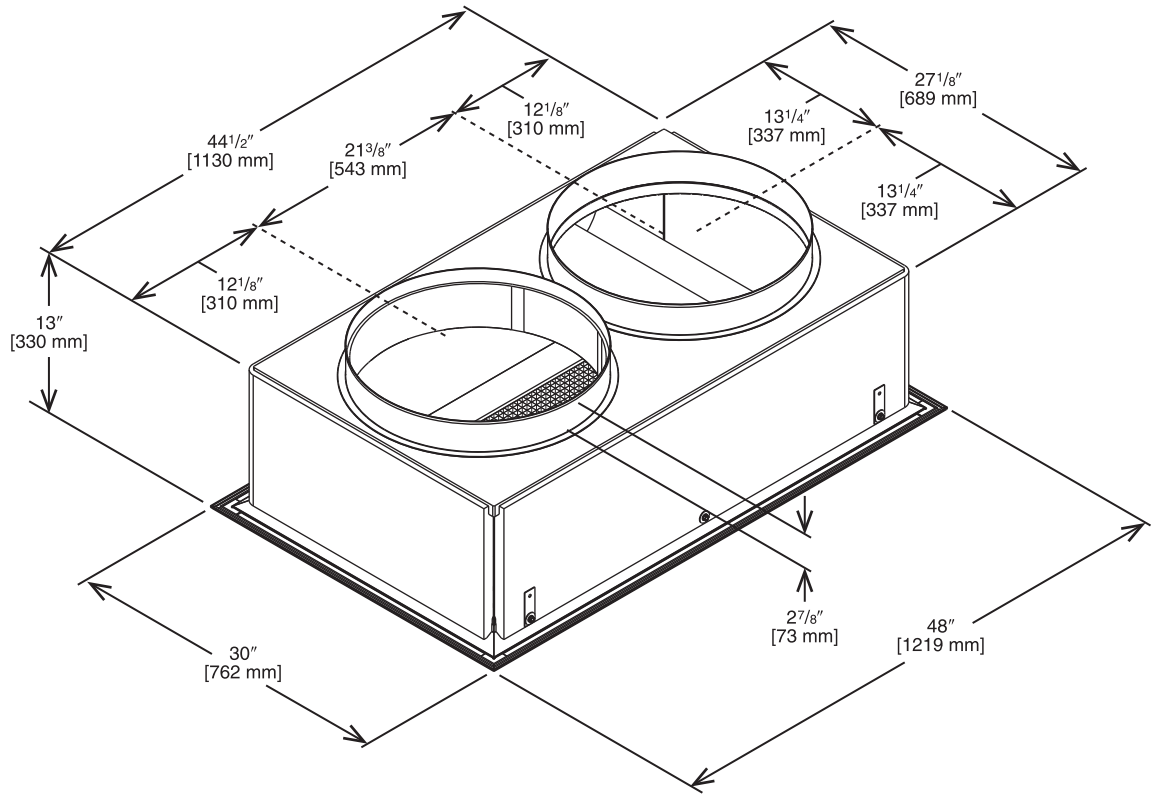


Illustration
ST-A1273-14-00

ENGINEERING DATA①

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

NOTES: ① All data is based on the air diffusion council guidelines.
② Throw data is based on 75 FPM Terminal Velocities using iso thermal 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.

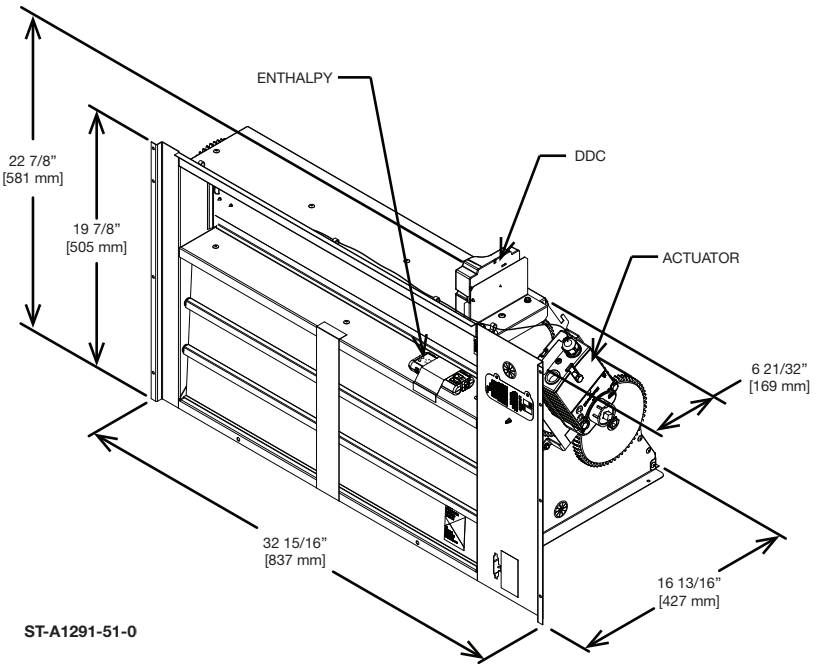
[ ] Designates Metric Conversions

DDC ECONOMIZER WITH SINGLE ENTHALPY (DOWNFLOW) MICROMETL ECONOMIZER WITH HONEYWELL CONTROLLER

Field-Installed Only

RXRD-01MCDBM3
RXRX-BV02—Dual Enthalpy Kit DDC (for Honeywell DDC)
RXRX-AR02—Sensor, Carbon Dioxide (Wall Mount)

- 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 2022
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO_2 Input Sensor Option 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 Option 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 a thermostat, all economizer functions can be viewed on 16 x 2 LCD screen



ST-A1291-51-0

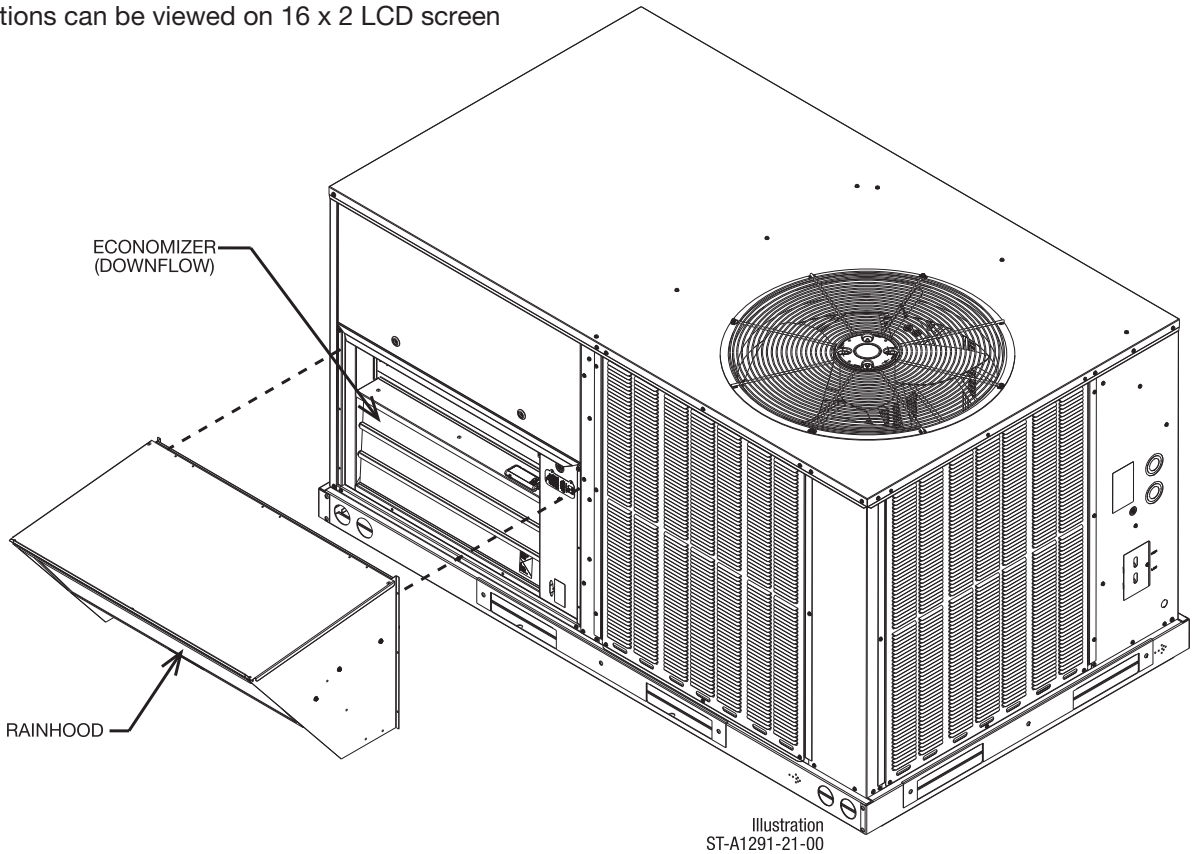


Illustration
ST-A1291-21-00

[ ] Designates Metric Conversions

DDC ECONOMIZER WITH SINGLE ENTHALPY (HORIZONTAL) MICROMETL ECONOMIZER WITH HONEYWELL CONTROLLER

Field-Installed Only

RXRD-01MCHBM3
RXRX-BV02—Dual Enthalpy Kit DDC (for Honeywell DDC)
RXRX-AR02—Sensor, Carbon Dioxide (Wall Mount)

- Features **Honeywell** Controls
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements and ASHRAE 90.1 2022
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO_2 Input Sensor Option 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 Option 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 a thermostat, all economizer functions can be viewed on 16 x 2 LCD screen

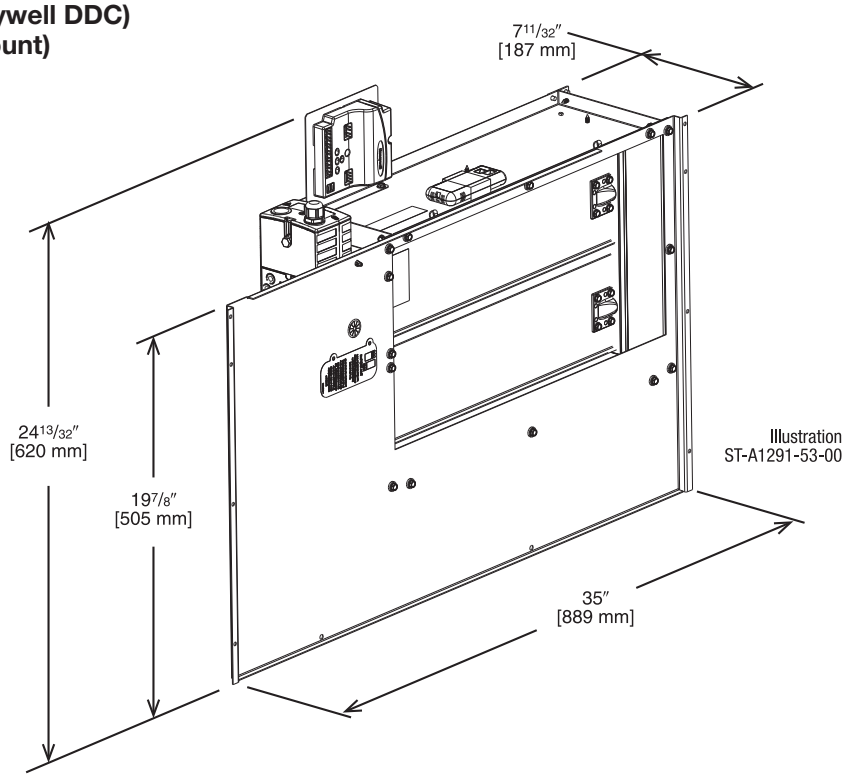


Illustration
ST-A1291-53-00

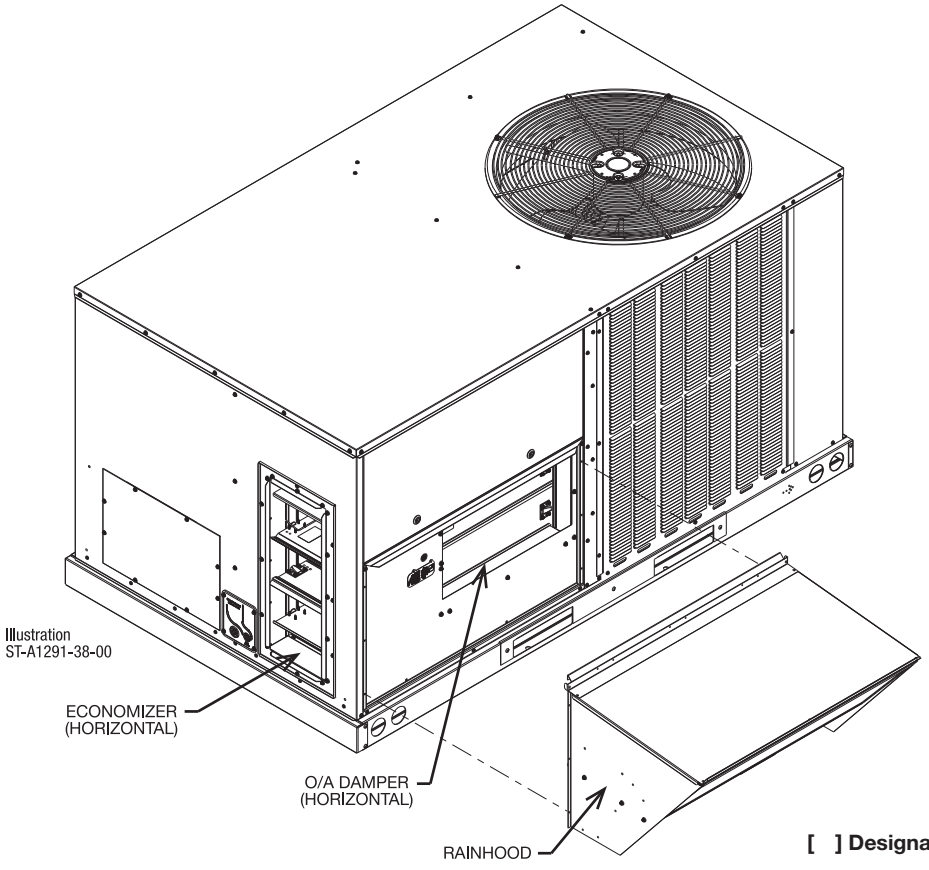


Illustration
ST-A1291-38-00

[ ] Designates Metric Conversions

NON-DDC ECONOMIZER WITH NO CONTROLS (DOWNFLOW) MICROMETL ECONOMIZER, BELIMO ACTUATOR

Field-Installed Only

RXRD-31MCDAM3
RXRX-ACD01—Wire Harness for Non-DDC Generic Economizers

- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements and ASHRAE 90.1 2022
- 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
- Controller and Sensors to be determined by Customer
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application
- Field-Installed Power Exhaust Option
- Can be Converted to DDC Operation with the Economizer Universal DDC Interface Kit (RXRX-DDC01)

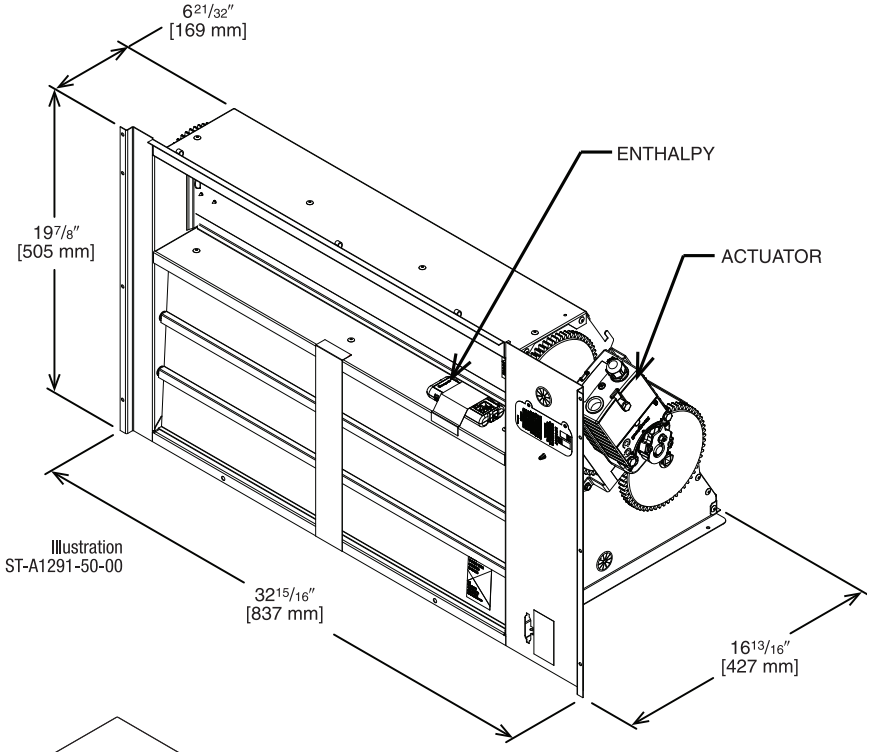


Illustration
ST-A1291-50-00

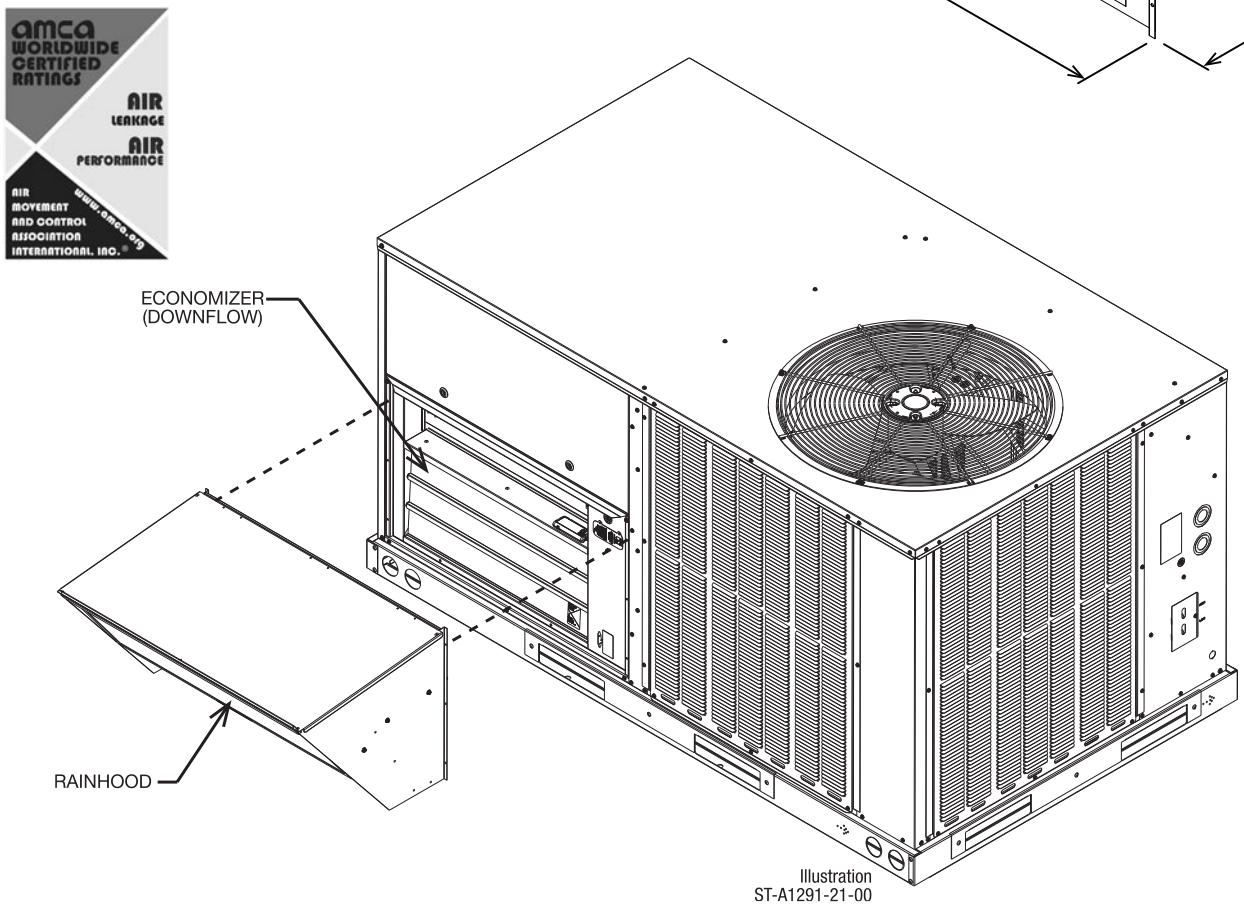


Illustration
ST-A1291-21-00

[ ] Designates Metric Conversions

NON-DDC ECONOMIZER WITH SINGLE ENTHALPY (DOWNFLOW) MICROMETL ECONOMIZER WITH SIEMENS CONTROLS

Factory or Field-Installed

RXRD-11MCDAM3
RXRX-AR02—Sensor, Carbon Dioxide (Wall Mount)
PD555460—Temperature and Humidity Sensor for Dual Enthalpy (for Siemens Controllers Only)

- Features **Siemens** Climatix ECO® Economizer Controller
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements and ASHRAE 90.1 2022
- 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 or Dry Bulb with Return Air Enthalpy Option
- CO_2 Input Sensor Option Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application
- Field-Installed Power Exhaust Option Available
- Fault detection and diagnostics
- Can be Converted to DDC Operation with the Economizer Universal DDC Interface Kit (RXRX-DDC01)

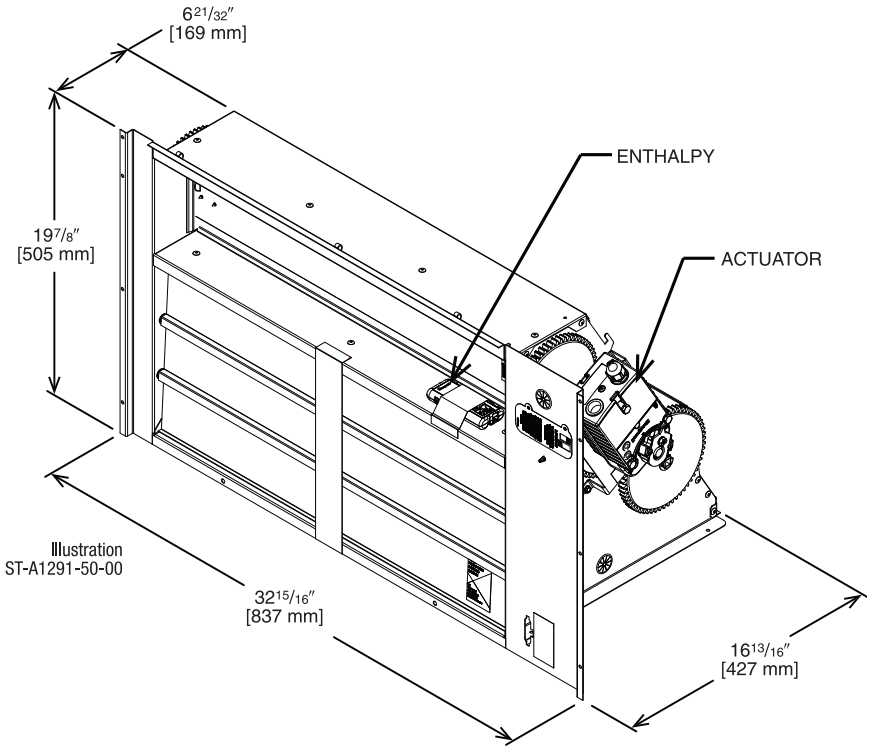


Illustration
ST-A1291-50-00

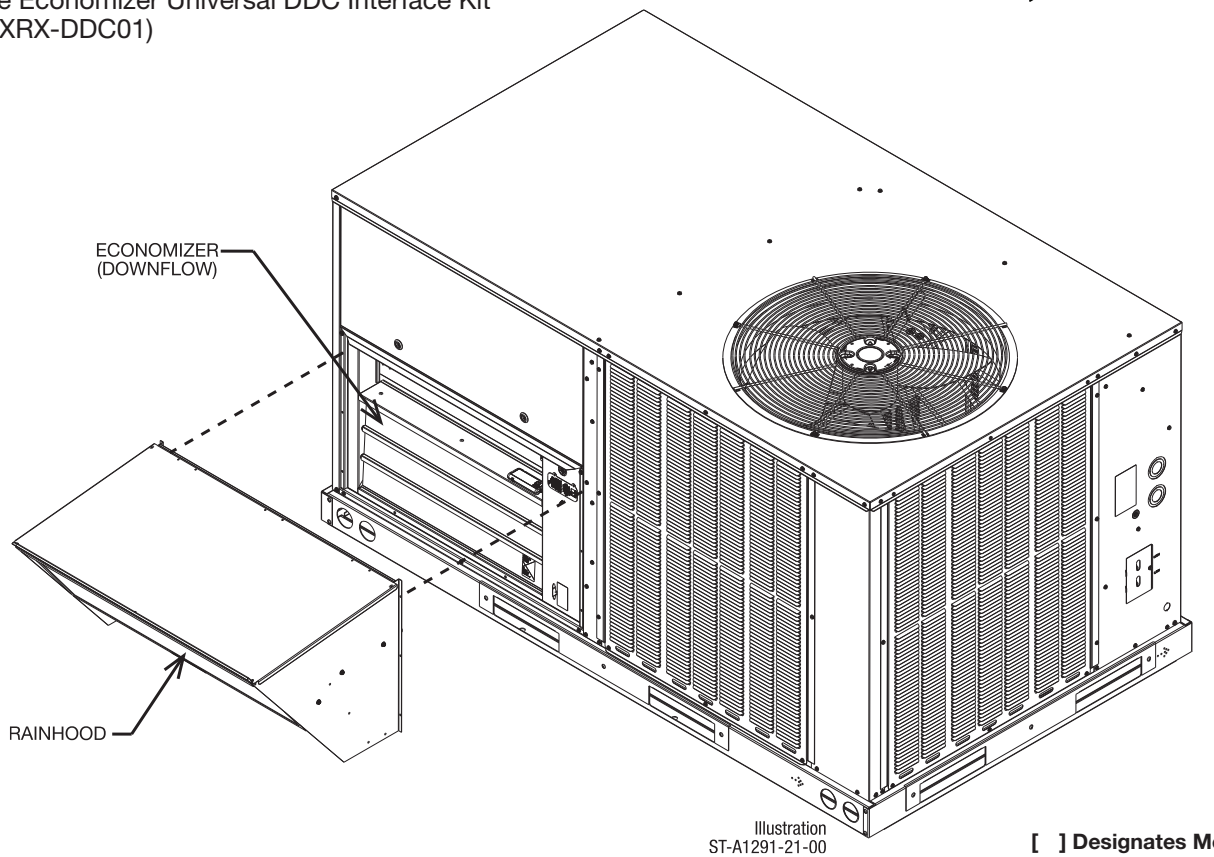


Illustration
ST-A1291-21-00

[ ] Designates Metric Conversions

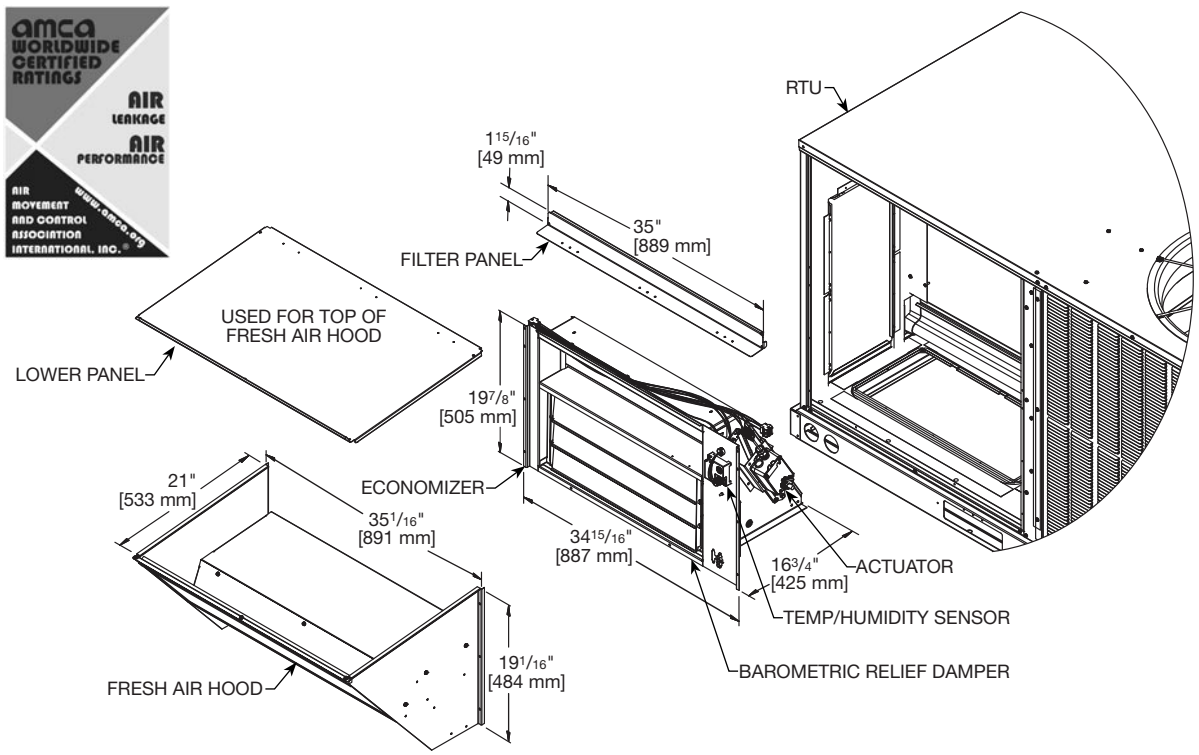
NON-DDC ECONOMIZER WITH SINGLE ENTHALPY (DOWNFLOW) RRS ECONOMIZER WITH RRS BASIC CONTROLLER

Field-Installed Only

RXRD-41MCDAM3
PD955977—Temperature and Humidity Sensor for Dual Enthalpy (for Ruskin Basic Controller Only)
RXRX-AR02—Sensor, Carbon Dioxide (Wall Mount)

These ultra-low leak economizer dampers meet the following minimum construction standards:

1. Frame shall be 14 to 24 gauge galvanized steel channel.
2. Damper blades are galvanized steel airfoil shaped, double skin construction of 14 gauge [2.0] equivalent thickness, 6" [152 mm] wide.
3. Blade edge seals shall be Ruskiprene type or equivalent suitable for -72°F [-60°C] to +275°F [+135°C] mechanically locked into the blade edge. Adhesive or clip-on type seals are unacceptable.
4. Jamb seals shall be flexible metal, compression type to prevent leakage between blade end and damper frame. Blade end overlapping frame is unacceptable.
5. Bearings shall be stainless steel or nylon bushing.
6. Axles shall be hexagonal positively locked into the damper blade.
7. Drive mechanism shall be concealed out of airstream to reduce pressure drop and noise.
8. Economizer damper is tested and rated based upon AMCA Publication 500-D.
9. RRS controls feature the Basic economizer controller with 24V actuator. Controls capable of Economizer Fault Detection and Diagnostics for code compliance.
10. Damper shall meet the leakage requirements of the International Energy Conservation Code by leaking less than 3 cfm/sq. ft. at 1" of static pressure and shall be AMCA licensed as a class 1A damper. Complies with reliability and performance requirements as specified by the California Energy Commission's Title 24 Standard and ASHRAE 90.1 2022. Economizer dampers shall be Ruskin Rooftop Systems ECD60 model.
11. Can be Converted to DDC Operation with the Economizer Universal DDC Interface Kit (RXRX-DDC01).



[ ] Designates Metric Conversions

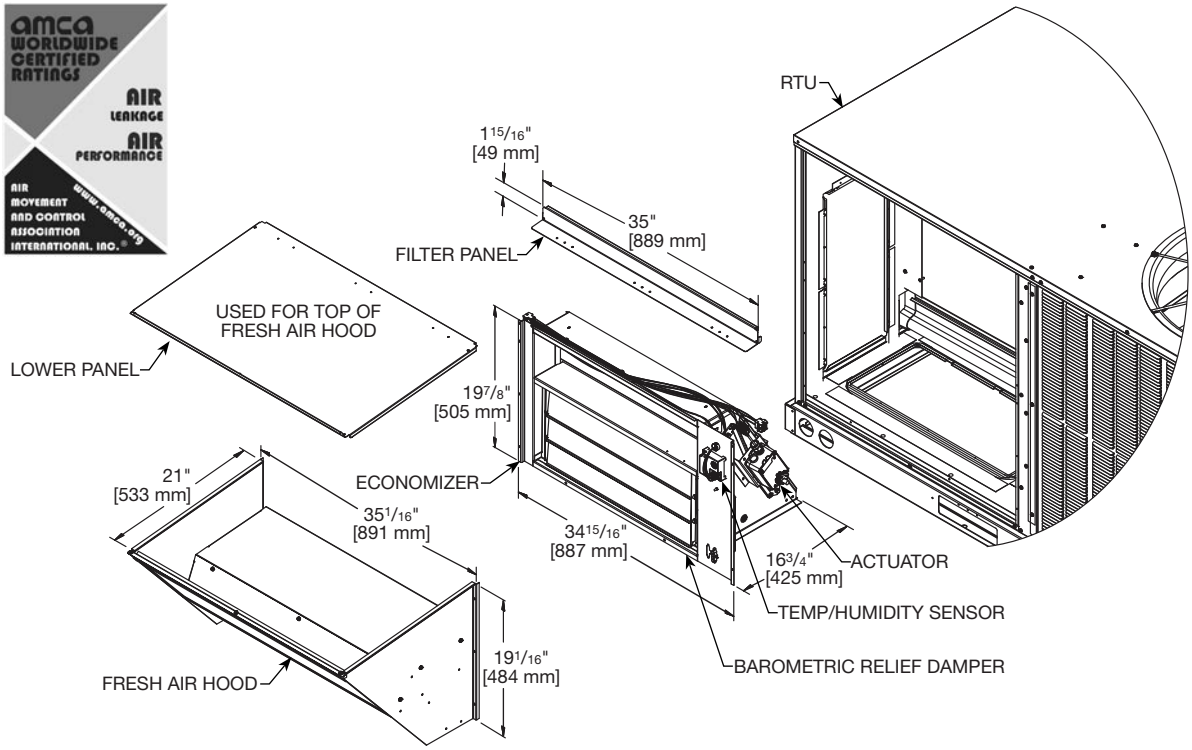
NON-DDC ECONOMIZER WITH SINGLE ENTHALPY (DOWNFLOW) RRS ECONOMIZER WITH SIEMENS CONTROLS

Field-Installed Only

RXRD-51MCDAM3
PD555460—Dual Enthalpy, Temperature and Humidity Sensor (for Siemens)
RXRX-AR02—Sensor, Carbon Dioxide (Wall Mount)

These ultra-low leak economizer dampers meet the following minimum construction standards:

1. Frame shall be 14 to 24 gauge galvanized steel channel.
2. Damper blades are galvanized steel airfoil shaped, double skin construction of 14 gauge [2.0] equivalent thickness, 6" [152 mm] wide.
3. Blade edge seals shall be Ruskiprene type or equivalent suitable for -72°F [-60°C] to +275°F [+135°C] mechanically locked into the blade edge. Adhesive or clip-on type seals are unacceptable.
4. Jamb seals shall be flexible metal, compression type to prevent leakage between blade end and damper frame. Blade end overlapping frame is unacceptable.
5. Bearings shall be stainless steel or nylon bushing.
6. Axles shall be hexagonal positively locked into the damper blade.
7. Drive mechanism shall be concealed out of airstream to reduce pressure drop and noise.
8. Economizer damper is tested and rated based upon AMCA Publication 500-D.
9. Controls feature the Siemens controller and actuator. Controls capable of Economizer Fault Detection and Diagnostics for code compliance.
10. Damper shall meet the leakage requirements of the International Energy Conservation Code by leaking less than 3 cfm/sq. ft. at 1" of static pressure and shall be AMCA licensed as a class 1A damper. Complies with reliability and performance requirements as specified by the California Energy Commission's Title 24 Standard and ASHRAE 90.1 2022. Economizer dampers shall be Ruskin Rooftop Systems ECD60 model.
11. Can be Converted to DDC Operation with the Economizer Universal DDC Interface Kit (RXRX-DDC01).



[ ] Designates Metric Conversions

NON-DDC ECONOMIZER WITH SINGLE ENTHALPY (HORIZONTAL) MICROMETL ECONOMIZER WITH SIEMENS CONTROLS

Field-Installed Only

PD555460—Dual Enthalpy, Temperature and Humidity Sensor (for Siemens)
RXRD-11MCHAM3
RXRX-AR02—Sensor, Carbon Dioxide (Wall Mount)

- Features **Siemens** Climatix ECO Economizer Controller
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Ultra Low Leak Dampers meet California Title 24 requirements and ASHRAE 90.1 2022
- Slip-In Design for Easy Installation
- Standard Barometric Relief Damper
- Single Enthalpy with Dual Enthalpy Upgrade Kit Available
- CO_2 Input Sensor Option Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Horizontal Duct Application
- Field-Installed Power Exhaust Option Available
- Can be Converted to DDC Operation with the Economizer Universal DDC Interface Kit (RXRX-DDC01)

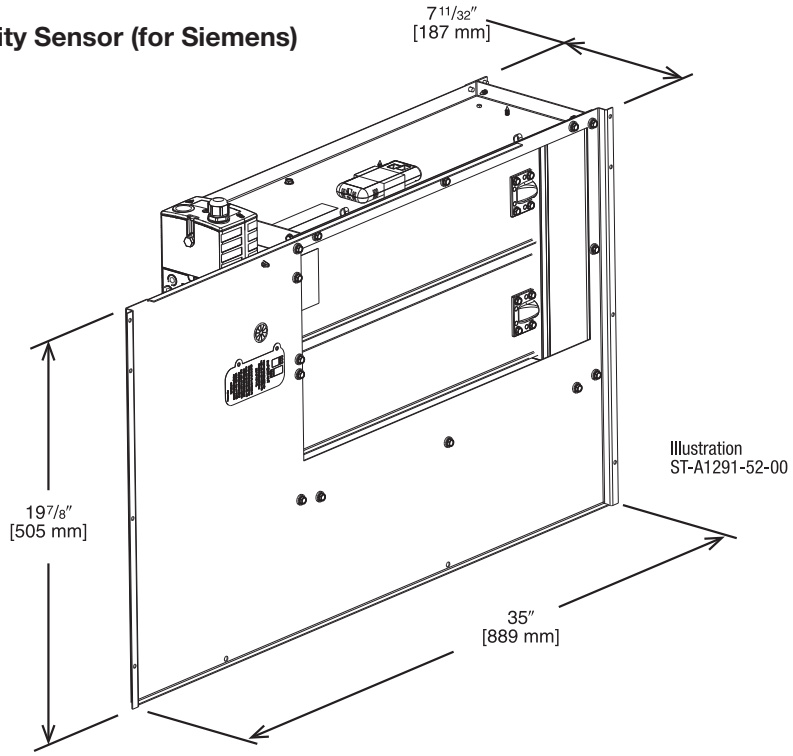


Illustration
ST-A1291-52-00

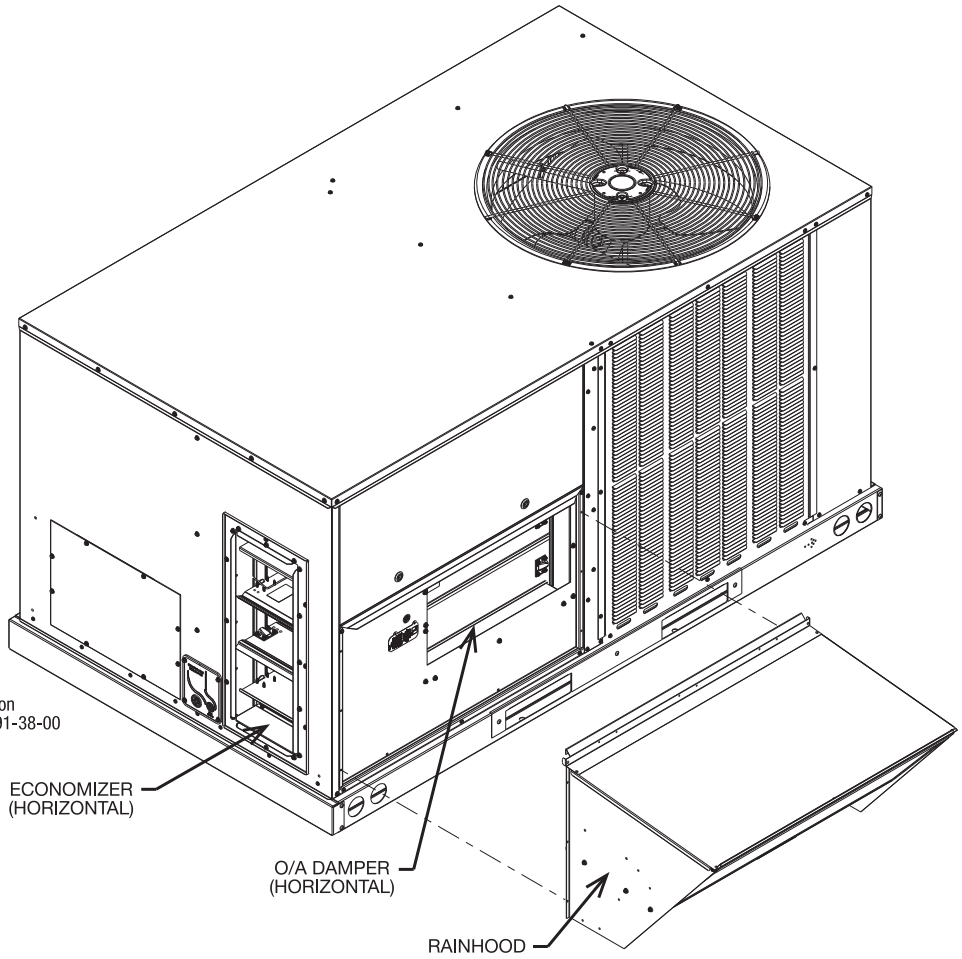


Illustration
ST-A1291-38-00

[ ] Designates Metric Conversions

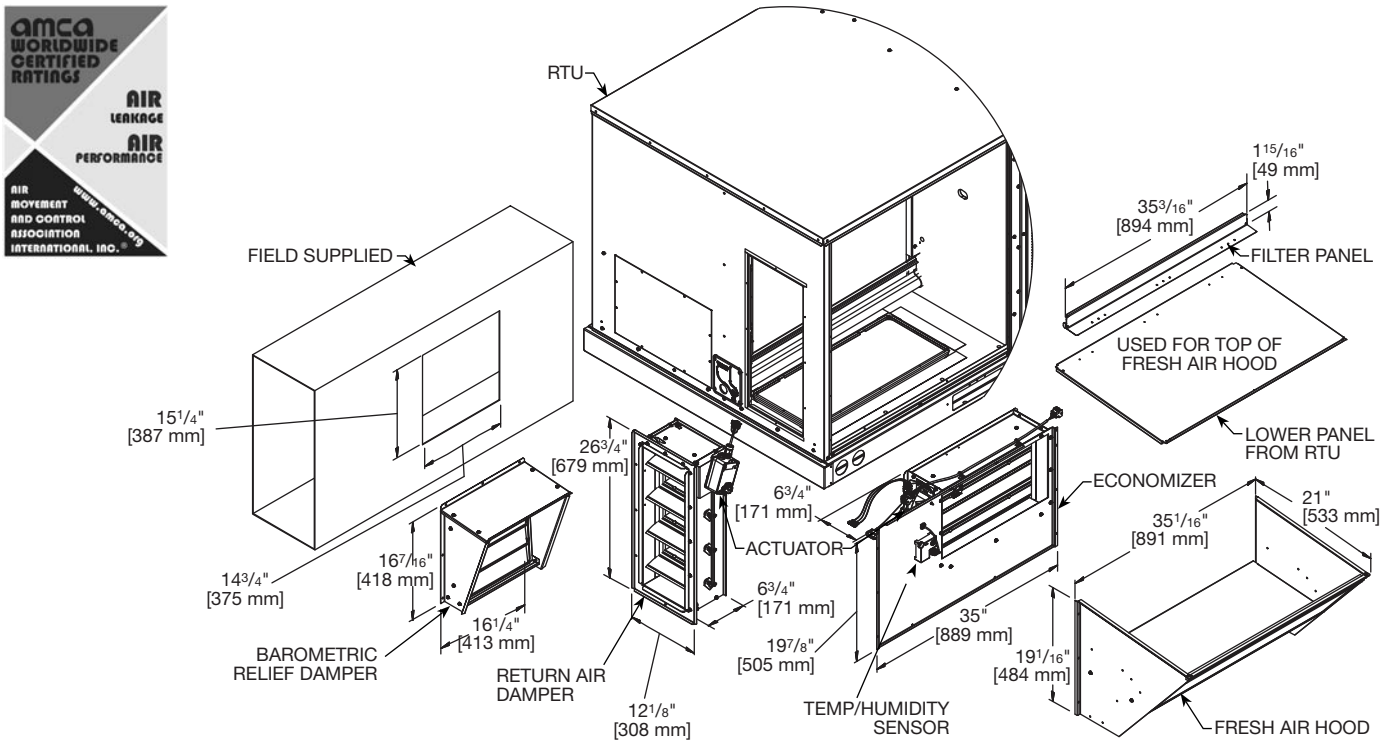
NON-DDC ECONOMIZER WITH SINGLE ENTHALPY (HORIZONTAL) RRS ECONOMIZER WITH RRS BASIC CONTROLLER

Field-Installed Only

RXRD-41MCHAM3
PD955977—Temperature and Humidity Sensor for Dual Enthalpy (for Ruskin Basic Controller Only)
RXRX-AR02—Sensor, Carbon Dioxide (Wall Mount)

These ultra-low leak economizer dampers meet the following minimum construction standards:

1. Frame shall be 14 to 24 gauge galvanized steel channel.
2. Damper blades are galvanized steel airfoil shaped, double skin construction of 14 gauge [2.0] equivalent thickness, 6" [152 mm] wide.
3. Blade edge seals shall be Ruskiprene type or equivalent suitable for -72°F [-60°C] to +275°F [+135°C] mechanically locked into the blade edge. Adhesive or clip-on type seals are unacceptable.
4. Jamb seals shall be flexible metal, compression type to prevent leakage between blade end and damper frame. Blade end overlapping frame is unacceptable.
5. Bearings shall be stainless steel or nylon bushing.
6. Axles shall be hexagonal positively locked into the damper blade.
7. Drive mechanism shall be concealed out of airstream to reduce pressure drop and noise.
8. Economizer damper is tested and rated based upon AMCA Publication 500-D.
9. RRS controls feature the Basic economizer controller with 24V actuator. Controls capable of Economizer Fault Detection and Diagnostics for code compliance.
10. Damper shall meet the leakage requirements of the International Energy Conservation Code by leaking less than 3 cfm/sq. ft. at 1" of static pressure and shall be AMCA licensed as a class 1A damper. Complies with reliability and performance requirements as specified by the California Energy Commission's Title 24 Standard and ASHRAE 90.1 2022. Economizer dampers shall be Ruskin Rooftop Systems ECD60 model.
11. Can be Converted to DDC Operation with the Economizer Universal DDC Interface Kit (RXRX-DDC01).



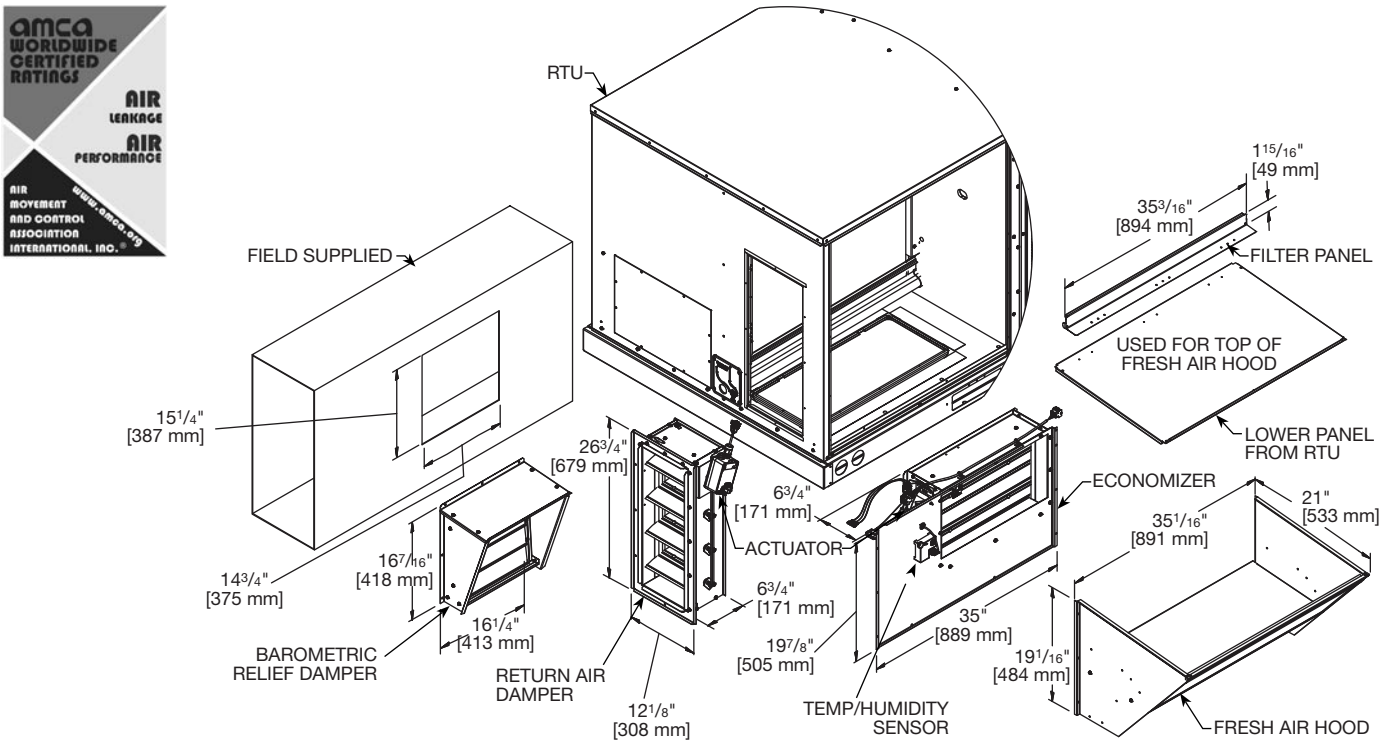
[ ] Designates Metric Conversions

NON-DDC ECONOMIZER WITH SINGLE ENTHALPY (HORIZONTAL)
RRS ECONOMIZER WITH SIEMENS CONTROLS
Field-Installed Only

RXRD-51MCHAM3
PD555460—Dual Enthalpy, Temperature and Humidity Sensor (for Siemens)
RXRX-AR02—Sensor, Carbon Dioxide (Wall Mount)

These ultra-low leak economizer dampers meet the following minimum construction standards:

1. Frame shall be 14 to 24 gauge galvanized steel channel.
2. Damper blades are galvanized steel airfoil shaped, double skin construction of 14 gauge [2.0] equivalent thickness, 6" [152 mm] wide.
3. Blade edge seals shall be Ruskiprene type or equivalent suitable for -72°F [-60°C] to +275°F [+135°C] mechanically locked into the blade edge. Adhesive or clip-on type seals are unacceptable.
4. Jamb seals shall be flexible metal, compression type to prevent leakage between blade end and damper frame. Blade end overlapping frame is unacceptable.
5. Bearings shall be stainless steel or nylon bushing.
6. Axles shall be hexagonal positively locked into the damper blade.
7. Drive mechanism shall be concealed out of airstream to reduce pressure drop and noise.
8. Economizer damper is tested and rated based upon AMCA Publication 500-D.
9. Controls feature the Siemens controller and actuator. Controls capable of Economizer Fault Detection and Diagnostics for code compliance.
10. Damper shall meet the leakage requirements of the International Energy Conservation Code by leaking less than 3 cfm/sq. ft. at 1" of static pressure and shall be AMCA licensed as a class 1A damper. Complies with reliability and performance requirements as specified by the California Energy Commission's Title 24 Standard and ASHRAE 90.1 2022. Economizer dampers shall be Ruskin Rooftop Systems ECD60 model.
11. Can be Converted to DDC Operation with the Economizer Universal DDC Interface Kit (RXRX-DDC01).



[ ] Designates Metric Conversions

ECONOMIZER UNIVERSAL DDC INTERFACE KIT

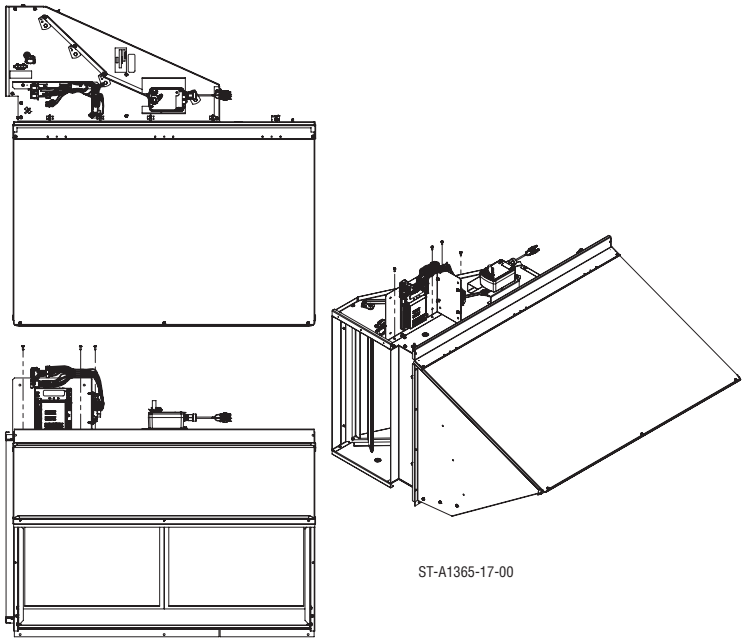
Factory or Field-Installed

RXRX-DDC01

- Allows any Non-DDC Economizer to be used with a ClearControl DDC model
- Mounts on the Economizer
- Provides Mounting location for Economizer Controller
- Provides wire management for excess wire

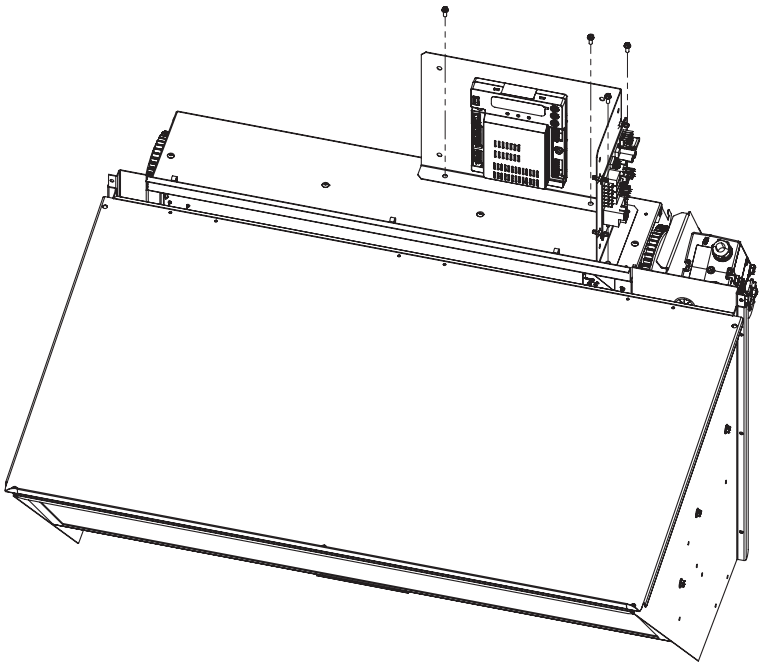
NOTE: Older DDC Models, prior to A2L, may require a field update to the ClearControl Software. The minimum version required is 3.15. Models with R-454B refrigerant come with software version 4.0 or higher.

HORIZONTAL FLOW DDC BRACKET SETUP



ST-A1365-17-00

DOWNFLOW ECONOMIZER DDC BRACKET SETUP

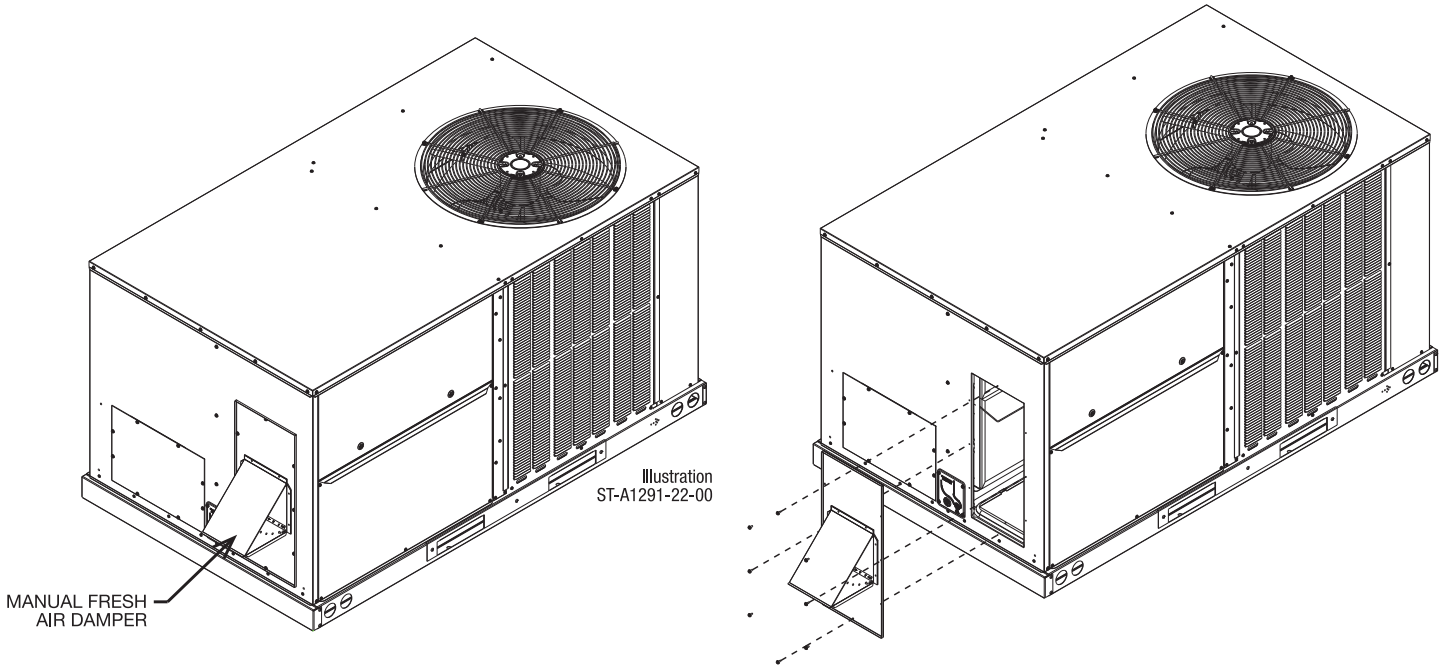


ST-A1365-13-01

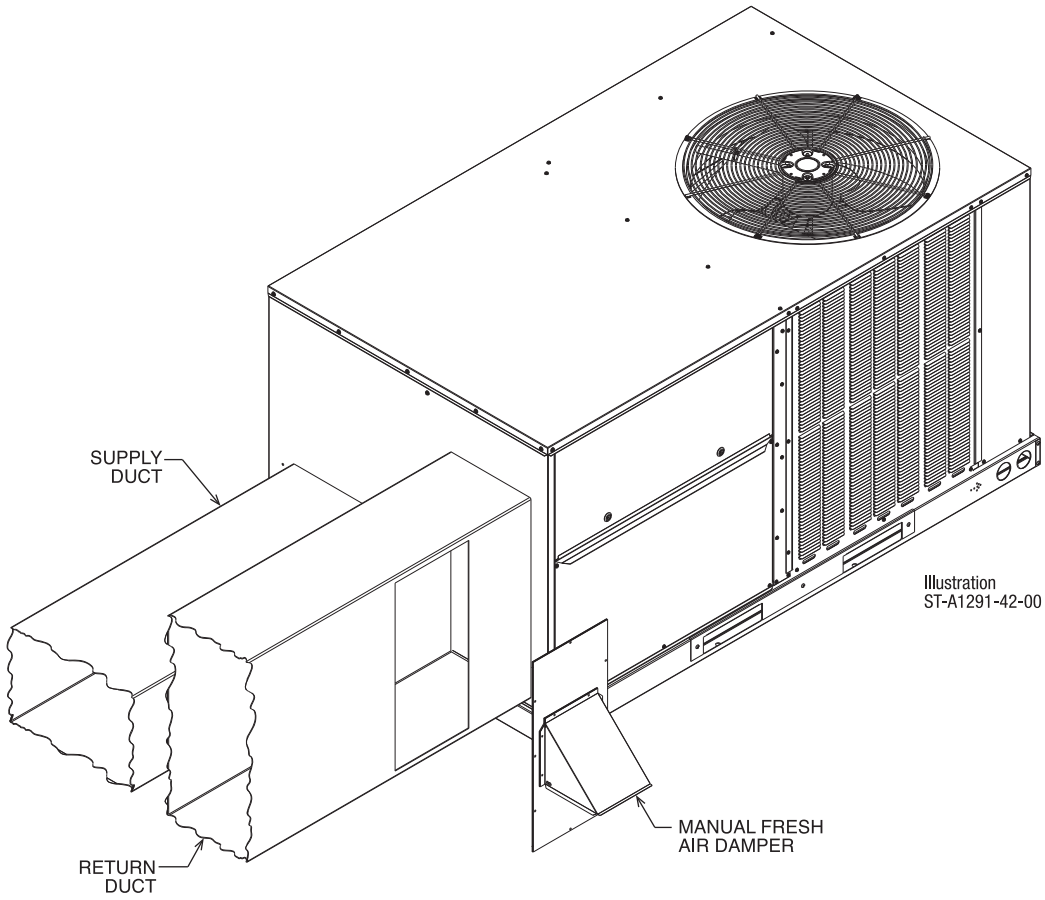
FRESH AIR DAMPER

RXRF-ACA1—Manual Damper Kit

DOWNFLOW APPLICATION



HORIZONTAL APPLICATION



FRESH AIR DAMPER

RXRF-ACB1—Motorized Damper Kit

- Features **Siemens** Actuator
- Gear Driven Direct Drive Actuator
- Adjustable to 2 positions
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin and 4-pin Electrical Connections
- Pre-Configured—No Field Adjustments Necessary

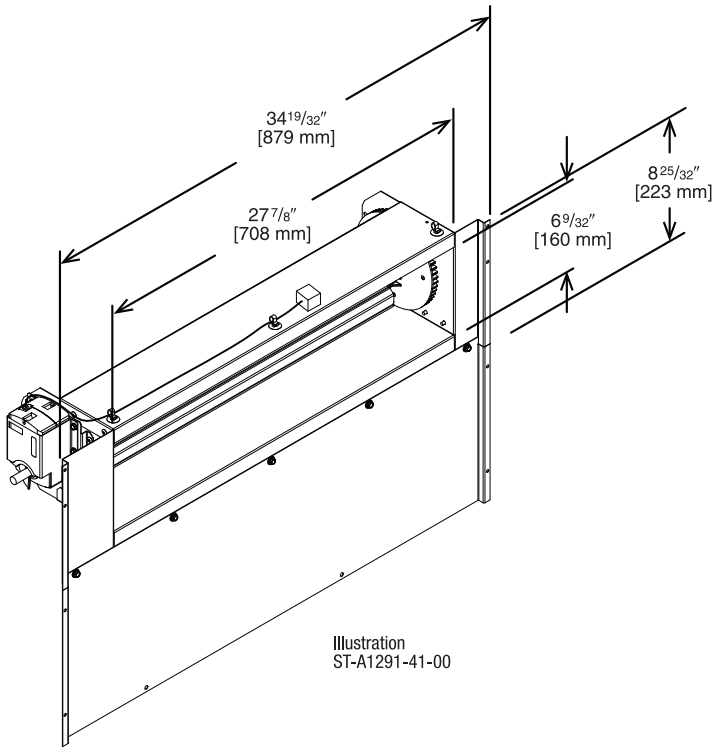


Illustration
ST-A1291-41-00

[ ] Designates Metric Conversions

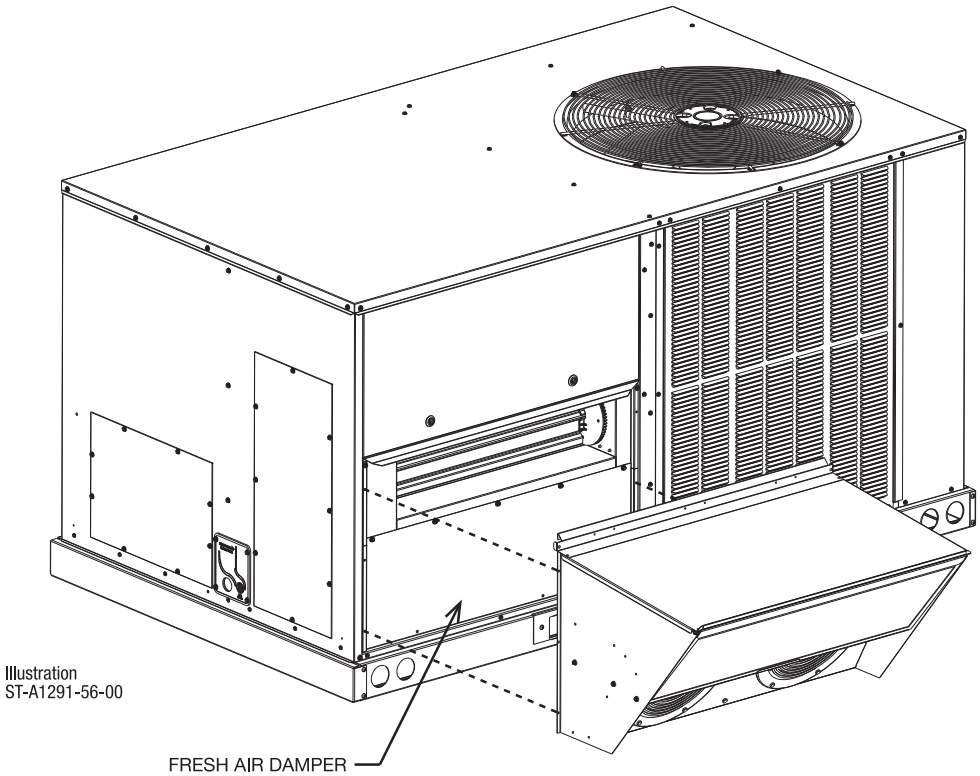


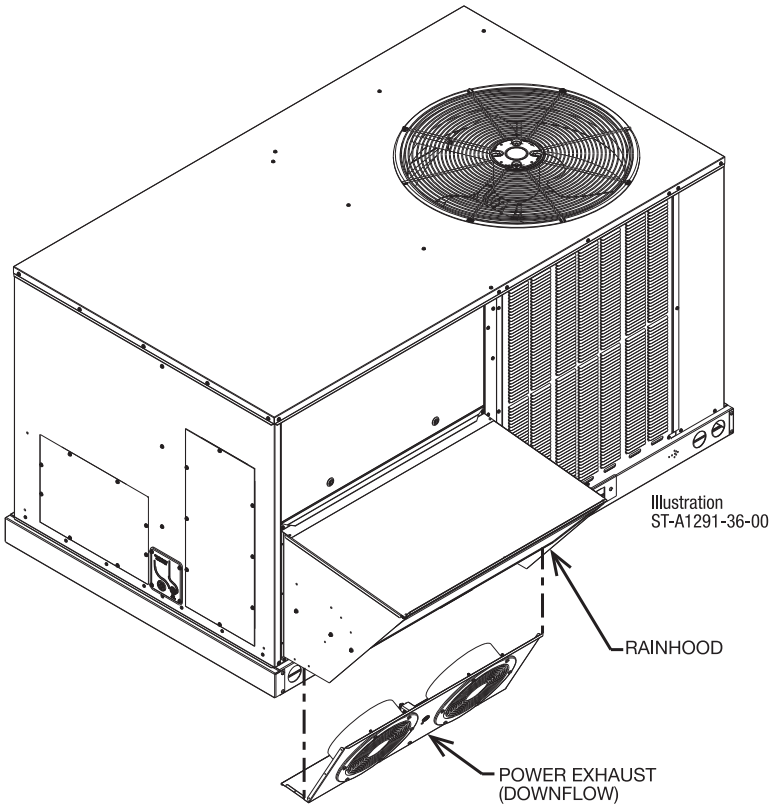
Illustration
ST-A1291-56-00

POWER EXHAUST KIT FOR ECONOMIZERS

RXRX-CCF02*

***Voltage Code: C or D**

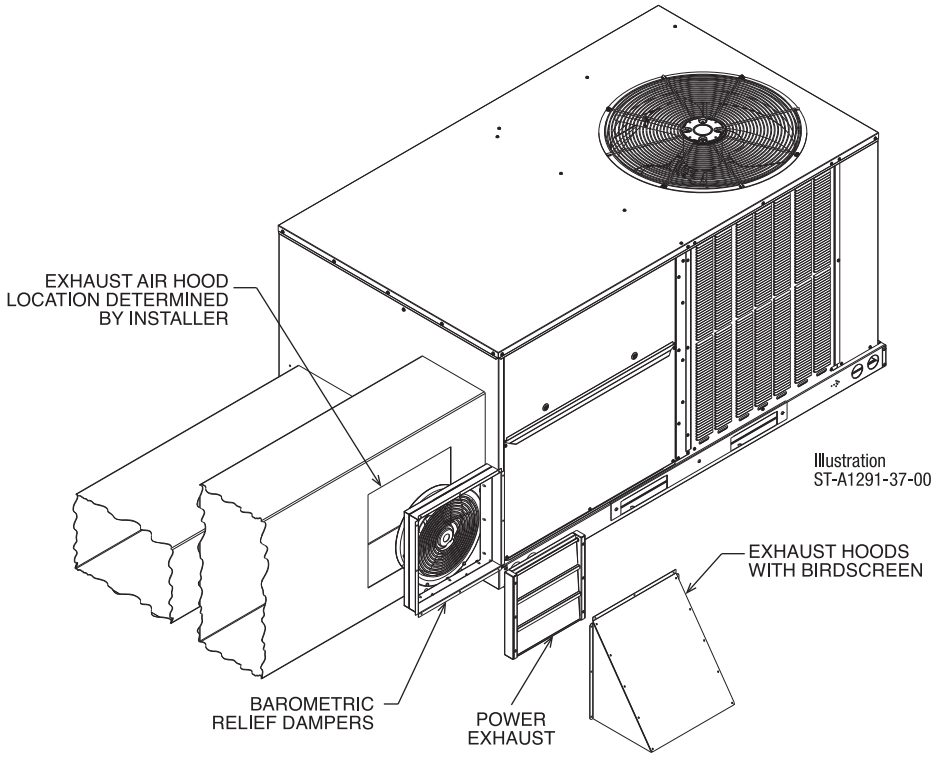
VERTICAL AIRFLOW



RXRX-CCF03*

***Voltage Code: C or D**

HORIZONTAL AIRFLOW



Model No.	No. of Fans	Volts	Phase	HP (ea.)	CFM [L/s]*	RPM	FLA (ea.)	LRA (ea.)
RXRX-CCF0*C	2	208/230	1	0.47	2200	3000	1.55	1.1
RXRX-CCF0*D	2	460	3	0.40	1970	2750	0.51	1.9

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

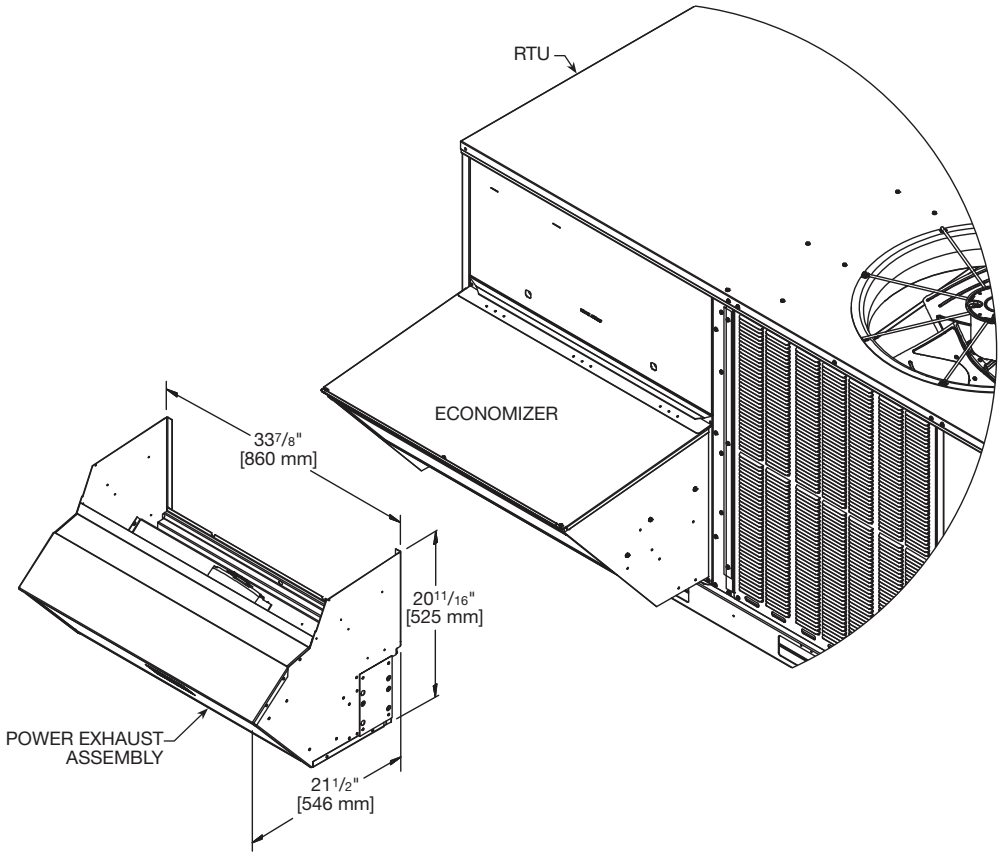
[ ] Designates Metric Conversions

POWER EXHAUST KIT FOR DOWNFLOW ECONOMIZERS

RXRX-RCF02*

***Voltage Code: C, D, or Y**

- Shipped completely assembled
- All wiring from control box to economizer is supplied
- Color coordinated with the unit
- Fully insulated with 1" 1.5 lb. fiberglass insulation
- Motors are factory wired and tested
- **Economizer Sold Separately**
- When using this power exhaust system, clearance between the bottom of the unit and the finished roof deck should be a minimum of 10 inches. Some applications may require a taller roofcurb for proper installation.



[ ] Designates Metric Conversions

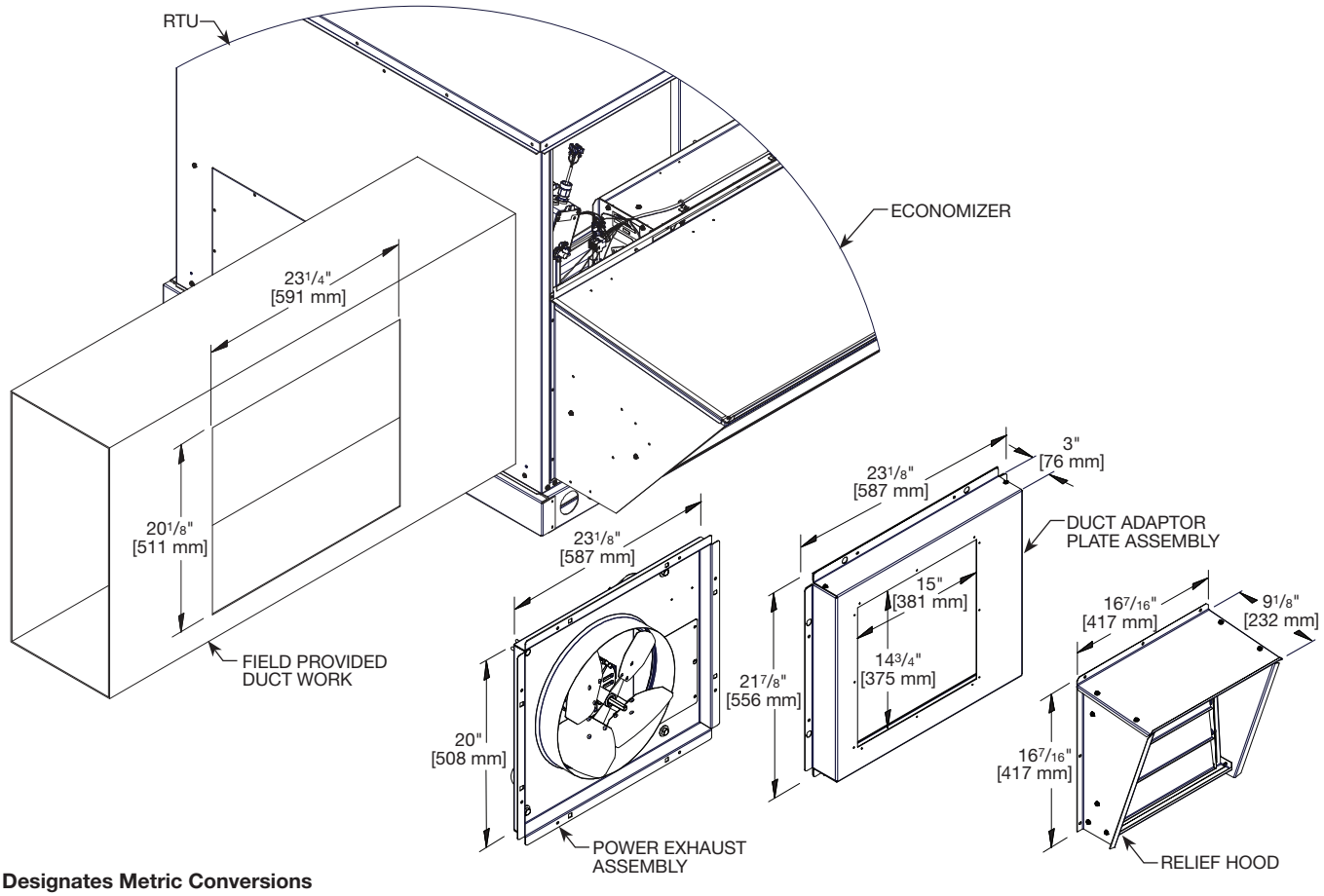
Model No.	Volt	Phase	Motor				Unit				@ 0.1 CFM
			HP	RPM	LRA	Qty.	Cir. Qty.	FLA	MCA	Fuse Size	
RXRX-RCF02C	208/230	1	1/2	1625	5.86	1	1	2.70	3.38	6	1989
RXRX-RCF02D	460				3.33			1.34	1.68	3	
RXRX-RCF02Y	575				2.52			1.06	1.33	2	

POWER EXHAUST KIT FOR HORIZONTAL ECONOMIZERS

RXRX-RCF03*

***Voltage Code: C, D, or Y**

- Shipped completely assembled
- All wiring from control box to economizer is supplied
- Color coordinated with the unit
- Fully insulated with 1" 1.5 lb. fiberglass insulation
- Motors are factory wired and tested
- **Economizer with Relief Hood Sold Separately**
- When using this power exhaust system, clearance between the bottom of the unit and the finished roof deck should be a minimum of 10 inches. Some applications may require a taller roofcurb for proper installation.

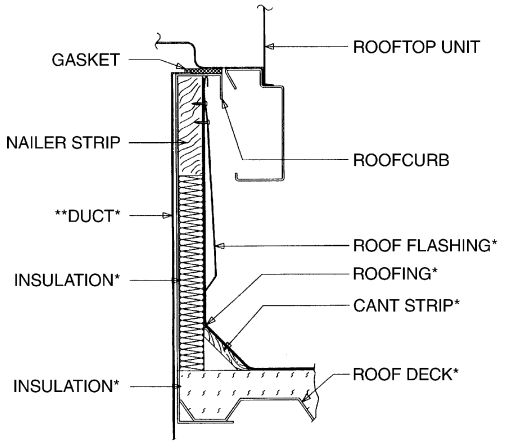


[ ] Designates Metric Conversions

Model No.	Volt	Phase	Motor				Unit				@ 0.1 CFM
			HP	RPM	LRA	Qty.	Cir. Qty.	FLA	MCA	Fuse Size	
RXRX-RCF03C	208/230	1	1/2	1625	5.86	1	1	2.70	3.38	6	2013
RXRX-RCF03D	460				3.33			1.34	1.68	3	
RXRX-RCF03Y	575				2.52			1.06	1.33	2	

ROOFCURBS (Full Perimeter)

- The roofcurb design can be utilized on all 3-6 Ton RACC 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] Nailer 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-DCC14	14" [356 mm]
A	RXKG-DCC24	24" [610 mm]

ROOFCURB INSTALLATION

VIEW A

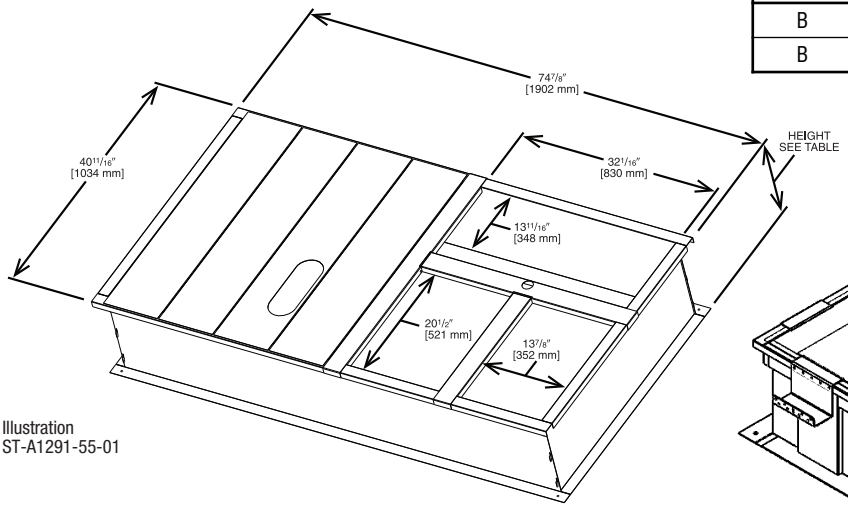
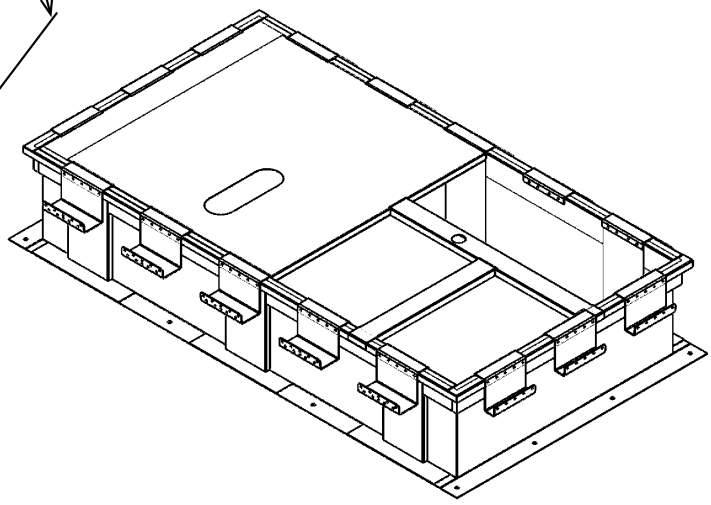


Illustration
ST-A1291-55-01

View	Roofcurb Model	Dimensions
B	RXKG-DC14	74.875" x 40.688" x 14.0"
B	RXKG-DC24	74.875" x 40.688" x 24.0"

WELDED ROOFCURB VIEW B



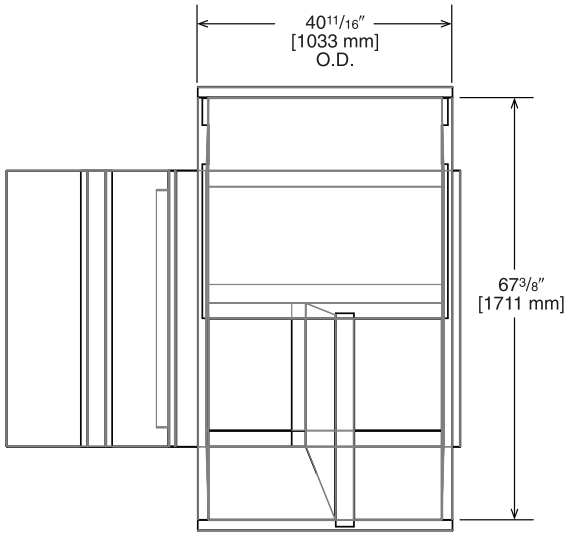
- State of Florida Approved: Approval Number FL 26981 for Technical Evaluation Report TER-20-28788 certifies the HVAC Unit and mounting methods for high wind resistance are compliant per Florida Building Code.

[ ] Designates Metric Conversions

ROOFCURB ADAPTERS (CONTINUED)

RXRX-DCCAE

- This roofcurb adapter fits the previous generation footprint (for example, RKNL, RLRL, RJNL series).



Approximate Static Pressure Drop
@1200 CFM = 0.05" w.g.
@2000 CFM = 0.19" w.g.

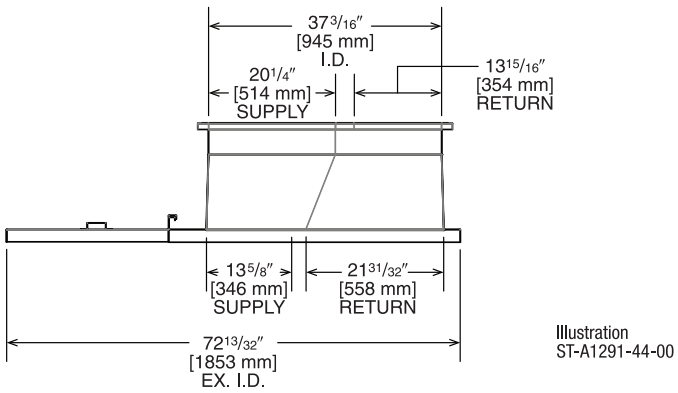
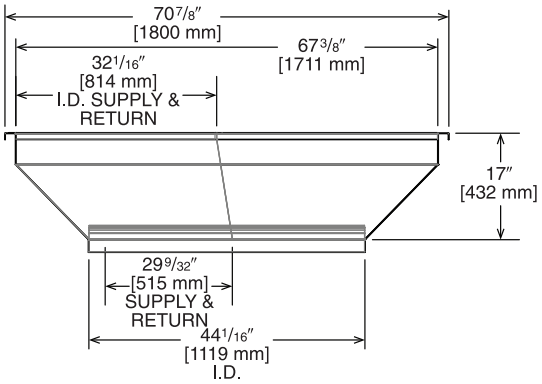


Illustration
ST-A1291-44-00



TOP VIEW

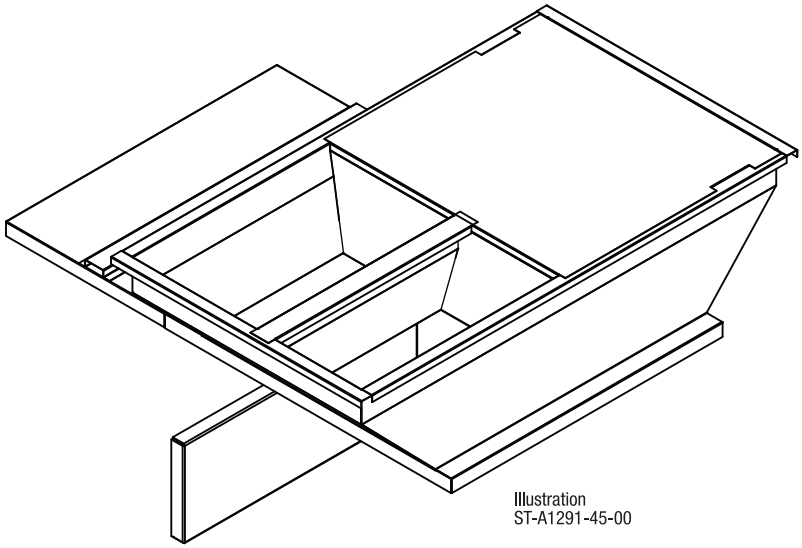


Illustration
ST-A1291-45-00

[ ] Designates Metric Conversions

Guide Specifications RACC–036–072

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.

ELECTRIC HEAT PACKAGED ROOFTOP

HVAC Guide Specifications

Size Range: 3 to 6 Nominal Tons

1.00 General:

A. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing a(n) hermetic scroll compressor(s) for cooling duty and heat pump for heating duty.

B. 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.

C. Unit shall use environmentally safe, R-454B refrigerant.

D. Unit shall be installed in accordance with the manufacturer's instructions.

E. Unit must be selected and installed in compliance with local, state, and federal codes.

1.01 Quality Assurance:

A. Unit meets ASHRAE 90.1 2022 minimum efficiency requirements.

B. Unit shall be rated in accordance with AHRI Standards 210/240 or 340/360 and 10 CFR appendix M1 to subpart B or part 430.

C. Unit shall be designed to conform to ASHRAE 15.

D. Unit shall be UL-tested and certified in accordance with Standards and UL-listed and certified under Canadian standards as a total package for safety requirements.

E. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.

F. Unit casing shall be capable of withstanding 1000-hour salt spray exposure per ASTM B117 (scribed specimen).

G. Roof curb shall be designed to conform to NRCA Standards.

H. 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.

I. Unit shall be designed in accordance with UL Standard 60335-2-40 4th Edition. including tested to withstand rain.

1.02 Manufacturer Qualifications

A. Unit shall be designed in accordance with ISO 9001:2015, and shall be manufactured in a facility registered by ISO 9001:2015.

1.03 Installer Qualifications

A. The installer shall be trained to install and service equipment with A2L refrigerants.

1.04 Delivery, Storage, and Handling:

A. Unit shall be stored and handled per manufacturer's recommendations.

B. Lifted by crane requires either shipping top panel or spreader bars.

C. Unit shall only be stored or positioned in the upright position.

1.05 Unit Cabinet:

A. Unit cabinet shall be constructed of galvanized steel.

B. Unit cabinet exterior paint shall be: pre-painted steel.

C. Evaporator fan compartment interior cabinet insulation shall conform to AHRI Standards 210 or 360 minimum exterior sweat criteria. Interior surfaces shall be insulated with a minimum 1/2-in. thick, 1.6 lbs. density, flexible fiberglass insulation, foil faced on the air side. Aluminum foil-faced fiberglass insulation shall be used in the gas heat compartment.

D. Base of unit shall have a location for thru-the-base gas and electrical connections standard.

E. Base Rail:

i. Unit shall have base rails on a minimum of 4 sides.

ii. Holes shall be provided in the base rails for rigging shackles to facilitate maneuvering and overhead rigging.

iii. Holes shall be provided in the base rail for moving the rooftop for fork truck.

iv. Base rail shall be a minimum of 14 gauge thickness.

F. Condensate pan and connections:
   i. Shall be a sloped condensate drain pan made of a non-corrosive material and be removable for cleaning.
   ii. Shall comply with ASHRAE Standard 62.
   iii. 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.
   iv. Shall be able to be easily removed.

G. Top panel
   i. Shall be a single piece top panel over indoor section.

H. Electrical Connections:
   i. All unit power wiring shall enter unit cabinet via a single, factory-prepared, continuous raised flange opening in the basepan.
   ii. Thru-the-base capability:
      a. Standard unit shall have a thru-the-base electrical location(s) using a raised, continuous raised flange opening in the basepan.
      b. No basepan penetration, other than those authorized by the manufacturer, is permitted.

I. Component access panels (standard):
   i. Cabinet panels shall be easily opened for servicing.
   ii. Panels covering control box, indoor fan, indoor fan motor, gas components (where applicable), and filters shall have hinges with 1/4 turn fasteners on units with factory-installed hinged option.
   iii. 1/4 fasteners shall be permanently attached.

1.06 Operating Characteristics:

A. Unit shall be capable of starting and running at 115°F (46°C) ambient outdoor temperature, meeting maximum load criteria of AHRI Standard 210/240 or 340/360 at ± 10% voltage.
B. 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).
C. Unit shall discharge supply air vertically or horizontally as shown on contract drawings.
D. Unit shall be factory configured for vertical supply & return configurations.
E. Unit shall be field convertible from vertical to horizontal configuration.

1.07 Electrical Requirements

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

1.08 Evaporator fan compartment:

A. 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.
B. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
C. Insulation shall also be mechanically fastened with welded pin and retainer washer.

1.09 Thermostats

A. Thermostat must:
   i. Energize both "W" and "G" when calling for heat.
   ii. Have capability to energize 1 stage of cooling, and at least 1 stage of heating.
   iii. Include capability for occupancy scheduling.

1.10 Electronic Control System for HVAC:

A. Shall be complete with self-contained low-voltage control circuit protected by a fuse on the 24-V transformer side.
B. Shall utilize color-coded wiring.
C. Unit shall include a self-contained low-voltage control circuit protected by a fuse on the 24-V transformer side.
D. Unit shall include a minimum of one 8-pin screw terminal connection board for connection of control wiring.

1.11 Safeties:

A. Compressor over-temperature, over current.
B. Low-pressure switch.
   i. Units shall have low pressure, loss of charge automatic reset device that will shut off compressor when tripped.
C. High-pressure switch.
   i. Unit shall be equipped with high pressure switch device that will shut off compressor when tripped.

D. Automatic reset, motor thermal overload protector.
E. The unit must be permanently grounded.
F. Components are not compatible between different refrigerants. Do not use R-410A service equipment or components on R-454B equipment. System or part failure could occur.

1.12 Standard Filter Section:

A. Shall consist of factory-installed, low velocity, throwaway 2-in. thick fiberglass filters of commercially available sizes.
B. Unit will accept both 2-in. and 4-in. filters.
C. Filter face velocity shall not exceed 365 fpm at nominal airflows.
D. Filters shall be accessible through an access panel with “no-tool” removal as described in the unit cabinet section of the specification.
E. Filters access is specified in the unit cabinet section of this specification.
F. Filters shall be held in place by metal rods, facilitating easy removal and installation.

1.13 Coils

A. Standard Aluminum/MicroChannel Coils:
   i. Standard evaporator and condenser coils shall be aluminum.
   ii. Evaporator and condenser coils shall be leak tested to 150 psig, pressure tested to 400 psig, and qualified to burst test at 2,200 psi.

1.14 Refrigerant Components:

A. Refrigerant circuit shall include the following control, safety, and maintenance features:
   i. TXV metering system shall prevent mal-distribution of two-phase refrigerant.
   ii. Refrigerant filter drier.
   iii. Service gauge connections on suction and discharge lines.
   iv. External pressure gauge ports access shall be located in front exterior of cabinet.
B. Compressors:
   i. Unit shall use one fully hermetic scroll compressor.
   ii. 3-5 ton RACCYB units include one single-stage compressor.
   iii. 3-5 ton RACCYC and 6 ton RACCYB units include one two-stage compressor.
   iv. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
   v. Compressors shall be internally protected from high discharge temperature conditions.
   vi. Compressors shall be protected from an over-temperature and over-amperage conditions by an internal, motor overload device.
   vii. Compressor shall be factory mounted on rubber grommets.
   viii. Compressor motors shall have internal line break thermal and current overload protection.
   ix. Crankcase heaters shall not be required for normal operating range.
   x. Compressor shall have molded electrical plug.

1.15 Evaporator Fan and Motor:

A. Evaporator Fan Motor:
   i. Shall have permanently lubricated bearings.
   ii. Shall have inherent automatic-reset thermal overload protection.
B. Direct Drive Evaporator Fan:
   i. Direct drive ECM technology with (5) dedicated speed selections as follows: fan, low, high, AC low static, AC high static.
   ii. Blower fan shall be double-inlet type with forward-curved blades.
   iii. Shall be constructed from steel with a corrosion resistant finish and dynamically balanced.

1.16 Condenser Fans and Motors:

A. Condenser Fan Motor:
   i. Shall be a totally enclosed motor.
   ii. Shall use permanently lubricated bearings.
   iii. Shall have inherent thermal overload protection with an automatic reset feature.
   iv. Shall use a shaft-down design. Shaft-up designs including those with “rain-slinger devices” shall not be allowed.

B. Condenser Fans shall:
   i. Shall be a direct-driven propeller type fan
   ii. Shall have blades riveted to corrosion-resistant steel spiders and shall be dynamically balanced.

1.17 Special Features:

A. Integrated Economizers:
   i. Integrated parallel modulating blade design type capable of simultaneous economizer and compressor operation.
   ii. Independent modules for vertical or horizontal return configurations shall be available. Vertical return modules shall be available as a factory-installed option.
   iii. Damper blades shall be galvanized steel. Plastic or composite blades on intake or return shall not be acceptable.
   iv. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
   v. Shall be equipped with dampers for both the outdoor ventilation air and the return air for positive air stream control.
   vi. Shall be equipped with low-leakage dampers, not to exceed 2% leakage at 1 in. wg pressure differential.
   vii. Shall be capable of introducing up to 100% outdoor air.
   viii. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air.
   ix. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
   x. 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.
   xi. 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%.
   xii. 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.
   xiii. Dampers shall be completely closed when the unit is in the unoccupied mode.
   xiv. Economizer controller shall accept a 2-10Vdc CO_2 sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor-air damper to provide ventilation based on the sensor input.
   xv. Economizer controller shall provide indications when in free cooling mode, in the DCV mode, or the exhaust fan contact is closed.
   xvi. Economizer wire harness will have provision for smoke detector.
B. Manual damper
   i. 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.
C. Condenser Coil Hail Guard Assembly:
   i. Shall protect against damage from hail.
   ii. Shall be louvered style.
D. Unit-Mounted, Non-Fused Disconnect Switch:
   i. Switch shall be factory-installed, internally mounted.
   ii. National Electric Code (NEC) and UL approved non-fused switch shall provide unit power shutoff.
   iii. Shall be accessible from outside the unit.
   iv. Shall provide local shutdown and lockout capability.
E. Convenience Outlet:
   i. Non-Powered convenience outlet.
   ii. Outlet shall be powered from a separate 115-120v power source.
   iii. A transformer shall not be included.
   iv. Outlet shall be field-installed and internally mounted with easily accessible 115-v female receptacle.
   v. Outlet shall include 15 amp GFI receptacle with independent fuse protection.
   vi. Outlet shall be accessible from outside the unit.

F. Propeller Power Exhaust:
   i. Power exhaust shall be used in conjunction with an integrated economizer.
   ii. Independent modules for vertical or horizontal return configurations shall be available.
   iii. Horizontal power exhaust shall be mounted in return ductwork.
   iv. 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.

G. Roof Curbs (Vertical):
   i. Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
   ii. Permits installation and securing of ductwork to curb prior to mounting unit on the curb.

H. Return Air Enthalpy Sensor
   i. The return air enthalpy sensor shall be used in conjunction with an outdoor air enthalpy sensor to provide differential enthalpy control.

I. Indoor Air Quality (CO_2) Sensor:
   i. Shall be able to provide demand ventilation indoor air quality (IAQ) control.
   ii. The IAQ sensor shall be available in duct mount, wall mount, or wall mount with LED display. The set point shall have adjustment capability.

J. Smoke detectors:
   i. Shall be a Four-Wire Controller and Detector.
   ii. Shall be environmental compensated with differential sensing for reliable, stable, and drift-free sensitivity.
   iii. Shall use magnet-activated test/reset sensor switches.
   iv. Shall have tool-less connection terminal access.
   v. Shall have a recessed momentary switch for testing and resetting the detector.
   vi. Controller shall include:
      a. One set of normally open alarm initiation contacts for connection to an initiating device circuit on a fire alarm control panel
      b. Two Form-C auxiliary alarm relays for interface with rooftop unit or other equipment
      c. One Form-C supervision (trouble) relay to control the operation of the Trouble LED on a remote test/reset station
      d. Capable of direct connection to two individual detector modules.
      e. Can be wired to up to 14 other duct smoke detectors for multiple fan shutdown applications.

K. Barometric Relief:
   i. Shall include damper, seals, hard-ware, and hoods to relieve excess building pressure.
   ii. Damper shall gravity-close upon shutdown.

L. Time Guard:
   i. Shall prevent compressor short cycling by providing a 5-minute delay (±2 minutes) before restarting a compressor after shutdown for any reason.
   ii. One device shall be required per compressor.

M. Refrigerant Leak Detection System:
   i. Shall be standard and factory-installed in every unit.
   ii. Shall trigger a fault code to the unit controller and initiate mitigation procedures.

GENERAL TERMS OF LIMITED WARRANTY*

Russell® By Rheem 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

Commercial Applications .....Five (5) Years
Residential Applications
[3 to 5 ton models only] .....Ten (10) Years

Parts

Commercial Applications .....One (1) Year
Residential Applications (Registration Required)
[3 to 5 ton models only] .....Ten (10) Years

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.

5600 Old Greenwood Road
Fort Smith, Arkansas 72908 • RussellByRheem.com

PRINTED IN U.S.A. 12/25 QG FORM NO. SRR-994 REV. 2