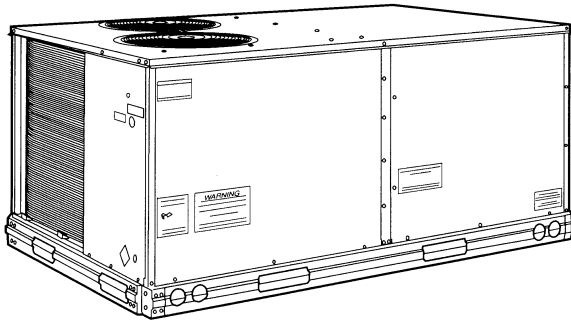


ACCESSORY USAGE GUIDE FOR RGV 090-180

7.5, 8.5, 10, 12.5, 15 TONS

RGV units with X-Vane™ Fan are single-packaged electric cooling, gas heating units that are pre-wired and pre-charged with R-410A HFC refrigerant. The units are factory tested in both heating and cooling modes.

X-Vane™ Fan



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org.



STANDARD FEATURES

- R-410A HFC refrigerant
- Two-stage cooling capacity on all models
- IEERs up to 15.0
- Exceeds current DOE IEER efficiencies while meeting DOE's new stringent 2023 IEER efficiency requirements
- NEW Direct Drive – X-Vane™ Fan — Indoor fan system uses Vane Axial fan design and electronically commutated motor. Indoor fan motor also delivers multi-fan speed control.
- 2023 DOE, ASHRAE 90.1, and IECC - IEER energy compliant
- Rated in accordance with AHRI Standard 340/360
- Designed in accordance with UL Standard 1995
- Listed by UL and UL-Canada or ETL and ETL-Canada
- Non-corrosive composite condensate pan in accordance with ASHRAE 62 Standard, sloping design; side or center drain
- Gas efficiencies up to 82%
- Induced draft combustion design
- Redundant gas valve, with up to 2 stages of heating
- Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection
- TXV refrigerant metering system on all models
- Insulated cabinet
- Exclusive IGC solid-state control for on-board diagnostics with LED error code designation, burner control logic and energy saving indoor fan motor delay

- Cooling operating range up to 125°F (52°C), except 150 size models with 115°F (46°C) and down to 40°F (-4°C), except 150 size models with 0°F (-18°C). Low Ambient kits allows cooling operation down to 0°F (-18°C).
- Large access panels with easy grip handles and no-strip screw feature
- Two-inch disposable return air filters
- Tool-less filter access door
- Unit control board facilitates simple safety circuit troubleshooting and simplified control box arrangement
- New X-Vane evaporator-fan system has no fan belts, pulleys, blower shaft, and blower bearings with slide out design
- Provisions for thru-the-bottom power entry capability
- Single point gas and electric connections
- Full perimeter base rail with built-in rigging adapters and fork truck slots
- Scroll compressors with internal line-break overload protection
- 24-volt control circuit protected with resettable circuit breaker
- Permanently lubricated evaporator fan motor
- Permanently lubricated, totally enclosed, shaft down condenser motors
- Low pressure and high-pressure switch protection
- Mixed Air Temperature switch protects the compressors when a combination of outdoor air and return falls below unsafe compressor limits
- Exclusive IGC anti-cycle protection for gas heat operation
- Solid-state electronic direct spark ignition system
- Flame roll-out safety protector
- Liquid line filter drier on each circuit
- Field convertible from vertical to horizontal airflow on all models. No special kit required on 090-150 models. Supply duct kit required on 180 models only.

STANDARD WARRANTY

- 10-year heat exchanger parts - Aluminized
- 15-year heat exchanger parts - Stainless Steel
- 5-year compressor parts
- 1-year parts

FACTORY INSTALLED OPTIONS INCLUDE BUT NOT LIMITED TO:

- Stainless steel gas heat exchanger includes tubes, vestibule plate and collector box
- Two position damper (field installed only)
- Condensate overflow switch option
- Non fused disconnect and convenience outlet options
- High static motor option
- Smoke detector, supply and/or return
- Corrosion resistant options for evaporator and condenser coils
- Hinged access panels
- Hot Gas Re-Heat dehumidification system on all models. This option also includes Head Pressure Control
- Integrated economizer system, Low and ULTRA Low Leak versions.

For a complete list of options and accessories, refer to product specifications and accessory guide.

ACCESSORY USAGE GUIDE FOR RGV 090-180

7.5, 8.5, 10, 12.5, 15 TONS

MODEL SERIES	R	G	V	0	9	0	L	D	2	A	0	A	A	B
Position Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14
R = Rooftop														
G = Gas Heat / Electric Cooling Type														
V = R-410A with X-Vane™ Fan Standard Efficiency														
090 = 90,000 BTUH = 7.5 Tons 102 = 102,000 BTUH = 8.5 Tons 120 = 120,000 BTUH = 10 Tons 150 = 150,000 BTUH = 12.5 Tons 180 = 180,000 BTUH = 15 Tons Nominal Cooling Capacity														
H = 208/230-3-60 L = 460-3-60 S = 575-3-60 Voltage														
D = Low Heat E = Medium Heat F = High Heat S = Low Heat, Stainless Steel Heat Exchanger R = Medium Heat, Stainless Steel Heat Exchanger T = High Heat, Stainless Steel Heat Exchanger Heating Capacity														
2 = Standard/Medium Static Direct Drive ECM with X-Vane™ Fan 3 = High Static Direct Drive ECM with X-Vane Fan 4 = High Static Direct Drive ECM with X-Vane Fan and Hot Gas Re-Heat 5 = Standard/Medium Static, Vertical Supply and Filter Status Switch 6 = High Static, Vertical Supply and Filter Status Switch 7 = High Static, Vertical Supply and Filter Status Switch with Hot Gas Re-Heat Motor (Indoor Fan)														
A = None B = Low Leak EconoMi\$er® X with Barometric Relief, OA Temp Sensor E = Low Leak EconoMi\$er X with Barometric Relief, + CO ₂ Densor, OA Temp Sensor H = Low Leak EconoMi\$er X with Barometric Relief, Enthalpy Sensor L = Economizer with Barometric Relief + CO ₂ Sensor, Enthalpy Sensor U = Ultra Low Leak Economizer with Barometric relief, OA Temp Sensor W = Ultra Low Leak Economizer with Barometric relief, Enthalpy Sensor Outdoor Air Options / Control														
0A = Standard 4B = Non Fused Disconnect Switch AA = Hinged Access Panels AT = Un-Powered Convenience Outlet BB = Powered Convenience Outlet BP = Return Air Smoke Detector BR = Supply Air Smoke Detector CJ = Condensate Overflow Switch Factory Installed Options														
A = Aluminum/Copper Condenser and Evaporator Coil B = Precoat Aluminum/Copper Condenser with Aluminum/Copper Evaporator C = E-Coated Aluminum/Copper Condenser with Aluminum/Copper Evaporator D = E-Coated Aluminum/Copper Condenser and Evaporator E = Copper/Copper Condenser and Aluminum/Copper Evaporator F = Copper/Copper Condenser and Evaporator Condenser / Evaporator Coil Configuration														
A = Economizer control for EconoMi\$er IV and all others (except factory-installed EconoMi\$er X) B = Economizer control for factory-installed for EconoMi\$er X Economizer Control														

ACCESSORY USAGE GUIDE FOR RGV 090-180 7.5, 8.5, 10, 12.5, 15 TONS

FIELD-INSTALLED ACCESSORIES

ECONOMIZER IV (DESIGNED FOR 1-SPEED INDOOR FAN MOTOR CONTROL OPERATION ONLY) — LOW LEAK CONTROLLER INCLUDED

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE	UNIT AIR FLOW
CRECOMZR021A03	Low Leak Vertical EconoMi\$er IV with solid-state controller, gear-driven, modulating damper, spring return actuator, up to 100% barometric relief, supply and outdoor air temperature sensors, and CO ₂ sensor compatible, for use in non-DDC applications.	090-150 Elect. Mech Control	Vertical Air Models
CRECOMZR062A00	Low Leak Vertical EconoMi\$er IV with solid-state controller, gear-driven, modulating damper, spring return actuator, up to 100% barometric relief, supply and outdoor air temperature sensors, and CO ₂ sensor compatible, for use in non-DDC applications.	180 Elect. Mech Control	Vertical Air Models
CRECOMZR025A02	Low Leak Horizontal EconoMi\$er IV with solid-state controller, gear-driven, modulating damper, spring return actuator, up to 100% barometric relief, supply and outdoor air temperature sensors, and CO ₂ sensor compatible, for use in non-DDC applications.	090-150 Elect. Mech Control	Horizontal Air Models
CRECOMZR064A00	Low Leak Horizontal EconoMi\$er IV with solid-state controller, gear-driven, modulating damper, spring return actuator, up to 100% barometric relief, supply and outdoor air temperature sensors, and CO ₂ sensor compatible, for use in non-DDC applications.	180 Elect. Mech Control	Horizontal Air Models

NOTES:

1. EconoMi\$er IV cannot be installed with an EconoMi\$er X, Manual Damper, or Motorized Damper or any other DDC controlled models.
2. When installed on a unit with hinged panels, hinged panel access kit is also required.
3. RGV 090-180 models use two speed indoor fan logic, the above options are for single stage motor control. See Application Tip for further guidance when using this.

ACCESSORY USAGE GUIDE FOR RGV 090-180 7.5, 8.5, 10, 12.5, 15 TONS

ECONOMIZER IV SENSORS ECONOMIZER SENSOR USAGE CHART — FIELD ACCESSORY ECONOMIZER IV ONLY

DESIRED CONTROL METHOD	ECONOMIZER IV ONLY IF YOU HAVE: FIELD INSTALLED DRY BULB ACCESSORY ECONOMIZER IV
Single Dry Bulb Temperature Control	None: Outside Air-dry bulb sensor is factory installed
Differential Dry Bulb Temperature Control	CRTEMPSN002A00
Single Enthalpy Control	(1) --HH--57AC-078 (Fast P/N ABX078ENT)
Differential Enthalpy Control	(1) --HH--57AC-078 (Fast P/N ABX078ENT) and (1) CRENDIF004A00
To Add CO ₂ DCV Control with above: Duct Mount	CRCBDIOX005A00

ECONOMIZER IV — SENSORS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRTEMPSN002A00	Outdoor or Return Dry Bulb Temperature Sensor used with Electro-Mechanical control.	EconoMi\$er IV
CRCBDIOX005A00	CO ₂ Sensor for use in return airstream. Also includes Aspirator Box required for Duct Mounting.	EconoMi\$er IV and EconoMi\$er X
--HH--57AC-078 (Fast P/N ABX078ENT)	Accusensor II Enthalpy control upgrade.	EconoMi\$er IV
CRENDIF004A00	Return Air Enthalpy Sensor used with EconoMi\$er IV and --HH--57AC-078 (Fast P/N ABX078ENT) for differential enthalpy control.	EconoMi\$er IV

NOTE: When selecting this accessory, factory mounted CO₂ sensor is not available. Temperature sensing portion of the CO₂ sensor not used with EconoMi\$er IV and EconoMi\$er X.

ACCESSORY USAGE GUIDE FOR RGV 090-180 7.5, 8.5, 10, 12.5, 15 TONS

ECONOMIZER X (FOR 2-SPEED X-Vane™ INDOOR FAN MOTOR) — LOW LEAK, CONTROLLER INCLUDED

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE	UNIT AIR FLOW
CRECOMZR078A00	Low Leak Vertical EconoMi\$er X with solid-state W7220 controller, gear-driven, modulating damper, spring return actuator, up to 100% barometric relief, supply and outdoor air temperature sensors, and CO ₂ sensor compatible, for use in electromechanical controls only. Controller meets California Title 24 Section 120.2 Fault Detection and Diagnostic (FDD) requirements.	090-150 Elect. Mech Control	Vertical Air Models
CRECOMZR080A00	Low Leak Vertical EconoMi\$er X with solid-state W7220 controller, gear-driven, modulating damper, spring return actuator, up to 100% barometric relief, supply and outdoor air temperature sensors, and CO ₂ sensor compatible, for use in electromechanical controls only. Controller meets California Title 24 Section 120.2 Fault Detection and Diagnostic (FDD) requirements.	180 Elect. Mech Control	Vertical Air Models
CRECOMZR079A00	Low Leak Horizontal EconoMi\$er X with solid-state W7220 controller, gear-driven, modulating damper, spring return actuator, up to 100% barometric relief, supply and outdoor air temperature sensors, and CO ₂ sensor compatible, for use in electromechanical controls only. Controller meets California Title 24 Section 120.2 Fault Detection and Diagnostic (FDD) requirements.	090-150 Elect. Mech Control	Horizontal Air Models
CRECOMZR081A00	Low Leak Horizontal EconoMi\$er X with solid-state W7220 controller, gear-driven, modulating damper, spring return actuator, up to 100% barometric relief, supply and outdoor air sensors, and CO ₂ sensor compatible, for use in electromechanical controls only. Controller meets California Title 24 Section 120.2 Fault Detection and Diagnostic (FDD) requirements.	180 Elect. Mech Control	Horizontal Air Models

NOTES:

1. EconoMi\$er X cannot be installed with an EconoMi\$er IV, Manual Damper or Motorized Damper.
2. When installed on a unit with hinged panels, hinged panel access kit is also required.

OTHER THAN ICP FIELD-SUPPLIED ECONOMIZERS WITH W7220 CONTROLLER - REQUIRED

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE	UNIT AIR FLOW
CRECOHRN001A00	Due to the X-Vane Axial Fan Unit Control Board, any other field furnished economizer that uses the W7220 controller will require this wiring harness to properly adapt and function. Item is required for unit and economizer match up. ICP furnished economizers do not require this part.	090-180 Elect. Mech Control with W7220 controller	All

ACCESSORY USAGE GUIDE FOR RGV 090-180 7.5, 8.5, 10, 12.5, 15 TONS

ECONOMIZER X - (FOR 2-SPEED X-Vane™ INDOOR FAN MOTOR) — ULTRA LOW LEAK, CONTROLLER INCLUDED

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE	UNIT AIR FLOW
CRECOMZR069A01	Ultra-LOW LEAK - Vertical EconoMi\$er X with solid-state W7220 controller, gear-driven, modulating damper, spring return actuator, up to 100% barometric relief, supply and outdoor air temperature sensors, and CO ₂ sensor compatible, for use in electromechanical controls only. Includes return, outside air, and relief air damper leakage that meets Title 24 section 140.4 and ASHRAE 90.1 requirements. Controller meets California Title 24 Fault Detection and Diagnostic (FDD) requirements. Also meets AMCA Class 1A economizer damper test standards and labeling.	090-150 Elect. Mech Control	Vertical Air Models
CRECOMZR071A01	Ultra-LOW LEAK - Vertical EconoMi\$er X with solid-state W7220 controller, gear-driven, modulating damper, spring return actuator, up to 100% barometric relief, supply and outdoor air temperature sensors, and CO ₂ sensor compatible, for use in electromechanical controls only. Includes return, outside air, and relief air damper leakage that meets Title 24 section 140.4 and ASHRAE 90.1 requirements. Controller meets California Title 24 Fault Detection and Diagnostic (FDD) requirements. Also meets AMCA Class 1A economizer damper test standards and labeling.	180 Elect. Mech Control	Vertical Air Models
CRECOMZR085A00	Ultra-LOW LEAK - Horizontal EconoMi\$er X with solid-state W7220 controller, gear-driven, modulating damper, spring return actuator, up to 100% barometric relief, supply and outdoor air temperature sensors, and CO ₂ sensor compatible, for use in electromechanical controls only. Includes return, outside air, and relief air damper leakage that meets Title 24 section 140.4 and ASHRAE 90.1 requirements. Controller meets California Title 24 Fault Detection and Diagnostic (FDD) requirements. Also meets AMCA Class 1A economizer damper test standards and labeling. Accessory also includes a separate barometric relief damper and hood assemble to be installed on the unit's side intake panel.	090-150 Elect. Mech Control	Horizontal Air Models
CRECOMZR086A00	Ultra-LOW LEAK - Horizontal EconoMi\$er X with solid-state W7220 controller, gear-driven, modulating damper, spring return actuator, up to 100% barometric relief, supply and outdoor air temperature sensors, and CO ₂ sensor compatible, for use in electromechanical controls only. Includes return, outside air, and relief air damper leakage that meets Title 24 section 140.4 and ASHRAE 90.1 requirements. Controller meets California Title 24 Fault Detection and Diagnostic (FDD) requirements. Also meets AMCA Class 1A economizer damper test standards and labeling. Accessory also includes a separate barometric relief damper and hood assemble to be installed on the unit's side intake panel.	180 Elect. Mech Control	Horizontal Air Models

NOTES:

1. EconoMi\$er X cannot be installed with an EconoMi\$er IV, Manual Damper or Motorized Damper.
2. When installed on a unit with hinged panels, hinged panel access kit is also required.

ACCESSORY USAGE GUIDE FOR RGV 090-180 7.5, 8.5, 10, 12.5, 15 TONS

OTHER THAN ICP FIELD SUPPLIED ECONOMIZERS WITH W7220 CONTROLLER - REQUIRED

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE	UNIT AIR FLOW
CRECOHRN001A00	Due to the X-Vane Axial Fan Unit Control Board, any other field furnished economizer that uses the W7220 controller will require this wiring harness to properly adapt and function. Item is required for unit and economizer match up. ICP furnished economizers do not require this part.	090-180 Elect. Mech Control with W7220 controller	All

ECONOMIZER X SENSORS ECONOMIZER SENSOR USAGE CHART – FIELD / FACTORY ECONOMI\$ER X ONLY

DESIRED CONTROL METHOD	ECONOMI\$ER X IF YOU HAVE:		
	FIELD INSTALLED DRY BULB ACCESSORY ECONOMI\$ER X	FACTORY INSTALLED DRY BULB SENSOR ECONOMI\$ER X	FACTORY INSTALLED ENTHALPY SENSOR ECONOMI\$ER X
Single Dry Bulb Temperature Control	None: Outside Air-dry bulb sensor is factory installed	None: Outside Air-dry bulb sensor is factory installed	None: Outside Air-dry bulb sensor is factory installed
Differential Dry Bulb Temperature Control	(1) --HH--57AC-081 (Fast P/N 1185124)	(1) --HH--57AC-081 (Fast P/N 1185124)	N/A
Single Enthalpy Control	(1) --HH--57AC-081 (Fast P/N 1185124)	(1) --HH--57AC-081 (Fast P/N 1185124)	None: Outside Air Enthalpy sensor is factory installed
Differential Enthalpy Control	(2) --HH--57AC-081 (Fast P/N 1185124)	(2) --HH--57AC-081 (Fast P/N 1185124)	(1) --HH--57AC-081 (EconoMi\$er X) (Fast P/N 1185124)
To Add CO₂ DCV Control with above: Duct Mount	(1) CRCBDIOX005A00		

NOTE: OAT (Dry Bulb Sensor) and SAT sensors included with EconoMi\$er X.

ECONOMIZER X SENSORS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRCBDIOX005A00	CO ₂ Sensor for use in return airstream. Also includes Aspirator Box required for Duct Mounting.	EconoMi\$er IV and EconoMi\$er X
--HH--57AC-081 (Fast P/N 1185124)	Enthalpy Control for W7220 Controller only. (One required for single enthalpy, two required for different enthalpy.)	EconoMi\$er X

NOTE: When selecting this accessory, factory mounted CO₂ sensor is not available. Temperature sensing portion of the CO₂ sensor not used with EconoMi\$er X.

ACCESSORY USAGE GUIDE FOR RGV 090-180 7.5, 8.5, 10, 12.5, 15 TONS

ACCESSORY KITS FOR VERTICAL RETURN APPLICATIONS ONLY — SIDE HINGED FILTER ACCESS DOOR (090 – 180)

VERTICAL RETURN AIR FLOW ONLY		
ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRHPLSIDE02A00	Accessory kit provides hinged filter access through the unit return air side duct panel. This side access filter door may be required when the standard factory filter access panel is not easily accessible due to job site limitations or an increase in height typically seen when using an adapter curb. Kit comes with hinged access door and frame and self-tapping screws with washers.	090
CRHPLSIDE03A00	Accessory kit provides hinged filter access through the unit return air side duct panel. This side access filter door may be required when the standard factory filter access panel is not easily accessible due to job site limitations or an increase in height typically seen when using an adapter curb. Kit comes with hinged access door and frame and self-tapping screws with washers.	102-150
CRHPLSIDE04A00	Accessory kit provides hinged filter access through the unit return air side duct panel. This side access filter door may be required when the standard factory filter access panel is not easily accessible due to job site limitations or an increase in height typically seen when using an adapter curb. Kit come with hinged access door and frame and self-tapping screws with washers.	180

ACCESSORY KITS FOR UNITS WITH HINGED ACCESS PANELS

VERTICAL		
ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRPECONV004A00	Accessory angle kit is required when field installing a vertical economizer, a vertical power exhaust, all 2 position dampers and all manual hoods on units that have hinged access doors. Includes angle and seal strip.	090-150
CRPECONV007B00	Accessory angle kit is required when field installing a vertical economizer, a vertical power exhaust, all 2 position dampers and all manual hoods on units that has hinged access doors. Includes angle and seal strip.	180

HORIZONTAL		
ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRHNGPNL002A00	Hinged door kit replaces the standard filter access door shipped with the horizontal economizer accessory, with a hinged filter access door. Includes door panel, angle and seal strip.	090-150
CRHNGPNL003A00	Hinged door kit replaces the standard filter access door shipped with the horizontal economizer accessory, with a hinged filter access door. Includes door panel, angle and seal strip.	180

NOTE: The Horizontal Hinged Door Kit is not compatible with Horizontal EconoMi\$er X Accessory Kits: CRECOMZR085A00 and CRECOMZR079A00.

ACCESSORY USAGE GUIDE FOR RGV 090-180 7.5, 8.5, 10, 12.5, 15 TONS

POWER EXHAUST ACCESSORIES

VERTICAL ^a

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRPWREXH022A01	Power Exhaust System	090-150 208/230-3-60 Vertical Power Exhaust requires a vertical economizer. ^b
CRPWREXH023A01	Power Exhaust System	090-150 460-3-60 Vertical Power Exhaust requires a vertical economizer.
CRPWREXH080A00	Power Exhaust System	180 208/230-3-60 Vertical Power Exhaust requires a vertical economizer. ^b
CRPWREXH081A00	Power Exhaust System	180 460-3-60 Vertical Power Exhaust requires a vertical economizer.

a. Vertical Power Exhaust requires a vertical economizer.

b. For 575-v order 208/230/3/60 volt power exhaust and below listed 575-v transmitter.

HORIZONTAL

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRPWREXH028A01	Horizontal Power Exhaust (208/230-3-60) — Mounted on Return Ductwork	090-150
CRPWREXH029A01	Horizontal Power Exhaust (460-3-60) — Mounted on Return Ductwork	090-150
CRPWREXH082A00	Horizontal Power Exhaust (208/230-3-60) — Mounted on Return Ductwork	180
CRPWREXH083A00	Horizontal Power Exhaust (460-3-60) — Mounted on Return Ductwork	180

575-V TRANSFORMERS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
--HT--01AH-859 (Fast P/N 1171494)	Transformer for conversion from 575-v to 208/230-v power exhaust applications.	Convert from 575 volt to 208/230 volt Power Exhaust applications.

NOTES:

1. Vertical power exhaust package includes exhaust hood, screens, and propeller fan system.
2. 24 in. roof curbs are NOT required with vertical power exhaust.
3. Horizontal power exhaust should be duct-mounted in the return ductwork and is supplied with a single fan and wiring harness.
4. Order --HT--01AH-859 for 575 volt applications (Fast P/N 1171494).

ACCESSORY USAGE GUIDE FOR RGV 090-180 7.5, 8.5, 10, 12.5, 15 TONS

SPECIAL - 180 SIZE SPECIFIC ACCESSORIES

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRDISBKT001A00	Disconnect Switch Bracket - Provides a pre-engineered and sized mounting bracket for applications requiring a unit mounted fused and non-fused disconnect of greater than 100 amps. Bracket assures that no damage will occur to coils when mounting with screws and other fasteners.	180
CRDUCTCV002A00	Supply Duct Cover - This supply duct cover is required when field converting the factory standard vertical duct supply to horizontal duct supply configuration. One required per unit.	180

OUTDOOR AIR DAMPER ACCESSORIES MANUAL OUTDOOR AIR DAMPERS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRMANDPR002A03	25% Open Manual Outdoor Air Damper Package	090-150
CRMANDPR002A02	50% Open Manual Outdoor Air Damper Package	090-150
CRMANDPR011A00	50% Open Manual Outdoor Air Damper Package	180

NOTES:

1. Manual Dampers cannot be installed with an EconoMi\$er IV, EconoMi\$er X or Motorized 2-position damper.
2. Application consideration needs to be given to the use of manual outdoor air damper on these models due to the varying fan speed of the X-Vane™ Vane Axial Fan System and fixed outdoor air capability of these devices.
3. Manual and Motorized 2-position dampers are not compatible with a power exhaust module.
4. Manual dampers include hood assembly, bird screen, adjustable damper blade (to allow up to the rated outdoor air percent), and bottom panel.

MOTORIZED OUTDOOR AIR DAMPERS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRTWOPOS011A00	Motorized 2-position outdoor air damper (25-100% Outdoor Air)	090-150
CRTWOPOS014A00	Motorized 2-position outdoor air damper (25-100% Outdoor Air)	180

NOTES:

1. Motorized Dampers cannot be installed with an EconoMi\$er IV, EconoMi\$er X, or Manual Damper.
2. Motorized dampers include bottom panel with opening (100% two-position damper includes 30% barometric relief capability), and adjustable damper (to allow up to the rated outdoor air percent).
3. Motorized dampers will close on loss of power to the rooftop unit.
4. Manual and Motorized 2-position dampers are not compatible with a power exhaust module.
5. Application consideration needs to be given to the use of two-position damper on these models due to the varying fan speed of the X-Vane™ Vane Axial Fan System and fixed outdoor air capability of these devices.

ACCESSORY USAGE GUIDE FOR RGV 090-180 7.5, 8.5, 10, 12.5, 15 TONS

ROOF CURB ACCESSORIES STANDARD ROOF CURBS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRRFCURB003A01	14 in. (356 mm) Tall Roof Curb. Complies with NRCA standards. Ductwork attaches to the roof curb. Includes thru-the-bottom capability.	090-150
CRRFCURB004A01	24 in. (607 mm) Tall Roof Curb. Complies with NRCA standards. Ductwork attaches to the roof curb. Includes thru-the-bottom capability.	090-150
CRRFCURB074A00	14 in. (356 mm) Tall Roof Curb. Complies with NRCA standards. Ductwork attaches to the roof curb. Includes thru-the-bottom capability.	180
CRRFCURB075A00	24 in. (607 mm) Tall Roof Curb. Complies with NRCA standards. Ductwork attaches to the roof curb. Includes thru-the-bottom capability.	180

THRU-THE-BASE CONNECTION KITS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRBTMPWR002A01	Thru-the-bottom electrical connections and thru-the-curb (not thru-the-bottom) gas connections. Includes a 1-1/4 in. (32 mm) diameter liquid tight conduit fitting for high voltage power wires and (2) 1/2 in. (13 mm) diameter liquid tight conduit fittings for thermostat wires and convenience outlet wires. Includes a 3/4 in. (19 mm) inside pipe coupling and gas plate assembly for thru-the-curb connections. Provides for watertight seals.	090-150
CRBTMPWR004A01	Thru-the-bottom power, control and gas connections. Includes a 1-1/4 in. diameter liquid tight conduit fitting for high voltage power wires, (2) 1/2 in. diameter liquid tight conduits for thermostat wires and convenience outlet wires and 3/4 in. gas adapter fitting for gas piping. Provides for watertight seal.	090-150
CRBTMPWR005A00	Thru-the bottom power, control and gas connections. Includes a 1-1/4 in. diameter liquid tight conduit fitting for high voltage power wires, (2) 1/2 in. diameter liquid tight conduits for thermostat wires and convenience outlet wires and 3/4 in. gas adapter fitting for gas piping, 4 cover plates, and gaskets for watertight seal.	180
CRBTMPWR006A00	Thru-the bottom power, control and gas connections. Includes a 1-1/2 in. diameter liquid tight conduit fitting for high voltage power wires, (2) 1/2 in. diameter liquid tight conduits for thermostat wires and convenience outlet wires and 3/4 in. gas adapter fitting for gas piping, 4 cover plates, and gaskets for watertight seal.	180
CRBTMPWR007A00	Thru-the bottom power, control and gas connections. Includes a 2 in. diameter liquid tight conduit fitting for high voltage power wires, (2) 1/2 in. diameter liquid tight conduits for thermostat wires and convenience outlet wires and 3/4 in. gas adapter fitting for gas piping, 4 cover plates, and gaskets for watertight seal.	180

NOTE: Access to the bottom of the RTU is required to install a thru-the-bottom connection kit. Install kit before to installing RTU on roof curb.

ACCESSORY USAGE GUIDE FOR RGV 090-180 7.5, 8.5, 10, 12.5, 15 TONS

LOUVERED HAIL GUARDS — CONDENSER COIL

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRLVHLGD014A00	Louvered Condenser Coil Hail Guard – Includes louvered panel(s) to protect condenser coil from damage and vandalism.	090
CRLVHLGD015A00	Louvered Condenser Coil Hail Guard – Includes louvered panel(s) to protect condenser coil from damage and vandalism.	102
CRLVHLGD016A00	Louvered Condenser Coil Hail Guard – Includes louvered panel(s) to protect condenser coil from damage and vandalism.	120 and 150
CRLVHLGD032A00	Louvered Condenser Coil Hail Guard – Includes louvered panel(s) to protect condenser coil from damage and vandalism.	180

MERV-8 FILTER KITS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
16X20X2-M8-R-P4	Air Filter kit including Qty:4 16x20x2 MERV-8 replacement air filters	090
20X20X2-M8-R-P4	Air Filter kit including Qty:4 20x20x2 MERV-8 replacement air filters	102-150
18X24X2-M8-R-P6	Air Filter kit including Qty:6 18x24x2 MERV-8 replacement air filters	180

NOTES:

1. Fast Parts List Price — Subject to change on a quarterly basis and should be verified through Fast Parts prior to quoting. Filter kits must be ordered through Fast Parts.
2. The standard filters that ship in a unit are construction type throw away filters which are not MERV rated. When purchasing upgraded filters for field use, please account for the additional static as shown in the builder.
3. All filter kits to be purchased through Fast Parts and are subject to Fast Parts pricing.

MERV-13 FILTER KITS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
16X20X2-M13-R-P4	Air Filter kit including Qty:4 16x20x2 MERV-13 replacement air filters	090
20X20X2-M13-R-P4	Air Filter kit including Qty:4 20x20x2 MERV-13 replacement air filters	102-150
18X24X2-M13-R-P6	Air Filter kit including Qty:6 18x24x2 MERV-13 replacement air filters	180

NOTES:

1. Fast Parts List Price — Subject to change on a quarterly basis and should be verified through Fast Parts prior to quoting. Filter kits must be ordered through Fast Parts.
2. The standard filters that ship in a unit are construction type throw away filters which are not MERV rated. When purchasing upgraded filters for field use, please account for the additional static as shown in the builder.
3. All filter kits to be purchased through Fast Parts and are subject to Fast Parts pricing.

ACCESSORY USAGE GUIDE FOR RGV 090-180 7.5, 8.5, 10, 12.5, 15 TONS

4 IN. FILTER RACK ACCESSORY

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRFLTTRK004A00	Air Filter rack designed to hold 4 in. MERV 8 or MERV 13 filters sized for Qty:2 20x24x4 Filters not included in kit.	090
CRFLTTRK005A00	Air Filter rack designed to hold 4 in. MERV 8 or MERV 13 filters sized for Qty:4 16x20x4 Filters not included in kit.	102-150
CRFLTTRK006A00	Air Filter rack designed to hold 4" MERV 8 or MERV 13 filters sized for Qty:4 16x20x4 & Qty:2 20x20x4. Filters not included in kit.	180

UV-C ACCESSORY KIT

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRUVCKIT003A00	Field-installed high-output, low temperature ultraviolet lamps pointed directly at cooling coil and condensate pan.	090-150 (Not available for Hot Gas Re-Heat units)
CRUVCKIT006A00	Field-installed High-output, low temperature ultraviolet lamps pointed directly at cooling coil and condensate pan.	180 (Not available for Hot Gas Re-Heat units)

NOTES:

1. A separate, dedicated 115-v power source will need to be field-supplied and routed to the control box per applicable codes. Power source must be suitably fused, grounded, and protected with the correct voltage.
2. UV-C Kits are not available on Hot Gas Re-Heat units.

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LP/HIGH ALTITUDE KITS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRLPELEV001A00	High Altitude conversion kit. Contains spuds sizes 31, 32, 33, 35, and 36 (5 spuds/ size) and other necessary conversion parts. Use this kit for Natural Gas high altitude applications only.	Natural Gas and High-Altitude Tables on pages 15 and 16.
CRLPELEV002A00	High Altitude conversion kit. Contains spuds sizes 37, 38, 39, 44, and 45 (5 spuds/size) and other necessary conversion parts. Use this kit for Natural Gas high altitude applications only.	Natural Gas and High-Altitude Tables on pages 15 and 16.
CRLPELEV003A00	Propane and High Altitude conversion kit. Contains spuds sizes 46, 47, 48, 49, and 50 (5 spuds/size) and other necessary conversion parts. Use this kit to convert Natural Gas rooftops to Propane and propane high altitude applications.	Natural Gas and High-Altitude Tables on pages 15 and 16.
CRLPELEV004A00	Propane and High Altitude conversion kit. Contains spuds sizes 51, 52, 53, 54, and 55 (5 spuds/size) and other necessary conversion parts. Use this kit to convert Natural Gas rooftops to Propane and propane high altitude applications.	Natural Gas and High-Altitude Tables on pages 15 and 16.
CRLPELEV007A00	High Altitude conversion kit. Contains spuds sizes 36, 37, 38, and 39 (10 spuds/size) and other necessary conversion parts. Use this kit for Natural Gas high altitude applications only.	Natural Gas and High-Altitude Tables on pages 15 and 16.
CRLPELEV008A00	High Altitude conversion kit. Contains spuds sizes 40, 41, 42, and 43 (10 spuds/size) and other necessary conversion parts. Use this kit for Natural Gas high altitude applications only.	Natural Gas and High-Altitude Tables on pages 15 and 16.
CRLPELEV009A00	Propane and Hi Altitude conversion kit. Contains spuds sizes 51, 52, 53, 54, and 55 (10 spuds/size) and other necessary conversion parts. Use this kit to convert Natural Gas rooftops to Propane and propane high altitude applications.	Natural Gas and High-Altitude Tables on pages 15 and 16.

NOTE: Refer to installation manual for application usage by size.

HEATING UPGRADE KITS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRFLUEDS001A00	Flue Discharge Deflector – Directs flue gas exhaust 90 degrees upward from current discharge. Designed to allow tighter distances between unit and combustible surfaces. 24 in. height. AGA certified.	090-150
CRFLUEHD001A01	Flue Exhaust Heat Shield – Provides a sheet metal guard around the flue gas hood which prevents service personnel or small children from coming into contact with the flue hood.	090-150
CRFLUEDS007A00	Flue Discharge Deflector – Directs flue gas exhaust 90 degrees upward from current discharge. Designed to allow tighter distances between unit and combustible surfaces.	180

NOTE: CFLUEDS001A00 and CRFLUEHD001A01 are mutually exclusive. Cannot install both on the same unit.

ACCESSORY USAGE GUIDE FOR RGV 090-180 7.5, 8.5, 10, 12.5, 15 TONS

NATURAL GAS HIGH ALTITUDE KITS 090 – 150

ELEVATION	UNIT SIZE	090	102	UNIT SIZE	120	150
Ft (m)	Heat Size/Input	CRLPELEV***** Required		Heat Size/Input	CRLPELEV***** Required	
0 - 2000 (610)	Low / 125,000	Std	Std	Low / 180,000	Std	Std
	Med / 180,000	Std	Std	Med / 224,000	Std	Std
	High / 224,000	Std	Std	High / 250,000	Std	Std
2000 (610)	Low / 125,000	001A00		Low / 180,000	001A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000	^t 30	
3000 (914)	Low / 125,000	001A00		Low / 180,000	001A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		
4000 (1219)	Low / 125,000	001A00		Low / 180,000	001A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		
5000 (1524)	Low / 125,000	001A00		Low / 180,000	001A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		
6000 (1829)	Low / 125,000	001A00		Low / 180,000	001A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		
7000 (2134)	Low / 125,000	001A00		Low / 180,000	001A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		
8000 (2438)	Low / 125,000	001A00		Low / 180,000	001A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		
9000 (2743)	Low / 125,000	002A00		Low / 180,000	002A00	
	Med / 180,000			Med / 224,000	001A00	
	High / 224,000			High / 250,000		
10000 (3048)	Low / 125,000	002A00		Low / 180,000	002A00	
	Med / 180,000			Med / 224,000	001A00	
	High / 224,000			High / 250,000		
11000 (3353)	Low / 125,000	002A00		Low / 180,000	002A00	
	Med / 180,000			Med / 224,000	001A00	
	High / 224,000			High / 250,000		
12000 (3658)	Low / 125,000	^t 41		Low / 180,000	^t 41	
	Med / 180,000			Med / 224,000	002A00	
	High / 224,000			High / 250,000		
13000 (3962)	Low / 125,000	^t 42		Low / 180,000	^t 42	
	Med / 180,000			Med / 224,000	002A00	
	High / 224,000			High / 250,000		
14000 (4267)	Low / 125,000	^t 43		Low / 180,000	^t 43	
	Med / 180,000			Med / 224,000	^t 40	
	High / 224,000			High / 250,000		

^t Orifice size listed - not a kit - must be purchased separately from Fast Parts. See product data for number required.

ACCESSORY USAGE GUIDE FOR RGV 090-180 7.5, 8.5, 10, 12.5, 15 TONS

NATURAL GAS HIGH ALTITUDE KITS 180

ELEVATION	UNIT SIZE	180
Ft (m)	Heat Size/Input	CRLPELEV***** Required
0 - 2000 (610)	Low / 180,000	Std
	Med / 240,000	Std
	High / 350,000	Std
2000 (610)	Low / 180,000	007A00
	Med / 240,000	007A00
	High / 350,000	^t 35
3000 (914)	Low / 180,000	007A00
	Med / 240,000	007A00
	High / 350,000	007A00
4000 (1219)	Low / 180,000	007A00
	Med / 240,000	007A00
	High / 350,000	007A00
5000 (1524)	Low / 180,000	008A00
	Med / 240,000	007A00
	High / 350,000	007A00
6000 (1829)	Low / 180,000	008A00
	Med / 240,000	007A00
	High / 350,000	007A00
7000 (2134)	Low / 180,000	008A00
	Med / 240,000	007A00
	High / 350,000	007A00
8000 (2438)	Low / 180,000	008A00
	Med / 240,000	008A00
	High / 350,000	008A00
9000 (2743)	Low / 180,000	008A00
	Med / 240,000	008A00
	High / 350,000	008A00
10000 (3048)	Low / 180,000	008A00
	Med / 240,000	008A00
	High / 350,000	008A00
11000 (3353)	Low / 180,000	^t 44
	Med / 240,000	008A00
	High / 350,000	008A00
12000 (3658)	Low / 180,000	^t 45
	Med / 240,000	008A00
	High / 350,000	008A00
13000 (3962)	Low / 180,000	^t 46
	Med / 240,000	^t 44
	High / 350,000	^t 44
14000 (4267)	Low / 180,000	^t 47
	Med / 240,000	^t 47
	High / 350,000	^t 45

^t Orifice size listed - not a kit - must be purchased separately from Fast Parts. See product data for number required.

ACCESSORY USAGE GUIDE FOR RGV 090-180 7.5, 8.5, 10, 12.5, 15 TONS

PROPANE GAS HIGH ALTITUDE KITS 090-150

ELEVATION	UNIT SIZE	090	102	UNIT SIZE	120	150
Ft (m)	Heat Size/Input	CRLPELEV***** Required		Heat Size/Input	CRLPELEV***** Required	
0 - 2000 (610)	Low / 125,000	003A00		Low / 180,000	003A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		
2000 (610)	Low / 125,000	003A00		Low / 180,000	003A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		
3000 (914)	Low / 125,000	003A00		Low / 180,000	003A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		
4000 (1219)	Low / 125,000	003A00		Low / 180,000	003A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		
5000 (1524)	Low / 125,000	004A00		Low / 180,000	003A00	
	Med / 180,000	003A00		Med / 224,000		
	High / 224,000	003A00		High / 250,000		
6000 (1829)	Low / 125,000	004A00		Low / 180,000	003A00	
	Med / 180,000	003A00		Med / 224,000		
	High / 224,000	003A00		High / 250,000		
7000 (2134)	Low / 125,000	004A00		Low / 180,000	003A00	
	Med / 180,000	003A00		Med / 224,000		
	High / 224,000	003A00		High / 250,000		
8000 (2438)	Low / 125,000	004A00		Low / 180,000	004A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		
9000 (2743)	Low / 125,000	004A00		Low / 180,000	004A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		
10000 (3048)	Low / 125,000	004A00		Low / 180,000	004A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		
11000 (3353)	Low / 125,000	004A00		Low / 180,000	004A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		
12000 (3658)	Low / 125,000	004A00		Low / 180,000	004A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		
13000 (3962)	Low / 125,000	004A00		Low / 180,000	004A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		
14000 (4267)	Low / 125,000	004A00		Low / 180,000	004A00	
	Med / 180,000			Med / 224,000		
	High / 224,000			High / 250,000		

ACCESSORY USAGE GUIDE FOR RGV 090-180 7.5, 8.5, 10, 12.5, 15 TONS

PROPANE GAS HIGH ALTITUDE KITS 180

ELEVATION	UNIT SIZE	180
Ft (m)	Heat Size/Input	CRLPELEV/***** Required
0 - 2000 (610)	Low / 180,000	009A00
	Med / 240,000	
	High / 350,000	
2000 (610)	Low / 180,000	009A00
	Med / 240,000	
	High / 350,000	
3000 (914)	Low / 180,000	009A00
	Med / 240,000	
	High / 350,000	
4000 (1219)	Low / 180,000	009A00
	Med / 240,000	
	High / 350,000	
5000 (1524)	Low / 180,000	009A00
	Med / 240,000	
	High / 350,000	
6000 (1829)	Low / 180,000	009A00
	Med / 240,000	
	High / 350,000	
7000 (2134)	Low / 180,000	009A00
	Med / 240,000	
	High / 350,000	
8000 (2438)	Low / 180,000	009A00
	Med / 240,000	
	High / 350,000	
9000 (2743)	Low / 180,000	009A00
	Med / 240,000	
	High / 350,000	
10000 (3048)	Low / 180,000	009A00
	Med / 240,000	
	High / 350,000	
11000 (3353)	Low / 180,000	009A00
	Med / 240,000	
	High / 350,000	
12000 (3658)	Low / 180,000	009A00
	Med / 240,000	
	High / 350,000	
13000 (3962)	Low / 180,000	009A00
	Med / 240,000	
	High / 350,000	
14000 (4267)	Low / 180,000	^t 56
	Med / 240,000	^t 55
	High / 350,000	

^t Orifice size listed - not a kit - must be purchased separately from Fast Parts. See product data for number required.

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CONTROL UPGRADE KITS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRTIMEGD001A00	Time Guard II — Automatically prevents the compressor from restarting for at least 4 minutes and 45 seconds after shutdown of the compressor. Not required when a corporate programmable thermostat is applied or with a SystemVu, or RTU Open control. (One required per compressor)	All Sizes
CRSDTEST001A00	Smoke detector remote Test/Reset/Alarm indicator kit	All Sizes
CRPHASE3001A02	Phase Monitor Control — Provides phase loss/phase reversal protection	208/230-3-60 460-3-60
CRPHASE3002A00	Phase Monitor Control — Provides phase loss/phase reversal protection	575-3-60
CRWINSTR001A00	Winter Start Package — Contains time delay relay for timed bypass of low-pressure switch on startup. (One required per refrigerant circuit) ^a	All Sizes
CRSTATUS001A00	Fan/Filter Status Switch — Indicator light not included	All Sizes
CRCONVOUT01A00	Convenience Outlet — 20 amp non (unit) powered convenience outlet kit is to provide a flexible installation method that will allow code compliance for height requirements of the GFCI outlet from finished roof surface on the range of rooftop and split system products as well as the capability to relocate the outlet into a more convenient location if necessary.	All Sizes
P201-4701	Transformer 75VA120/240/460-24	All Sizes
CRCNDOVR003A00	Condensate Overflow Switch — Includes electronic controller and sensor. Compressor(s) turn off if the drain trap becomes plugged. It can be used in down flow or side discharge units.	All Sizes
CRSMKSEN003A00	Smoke Detector Control Module — Controller that can control either return and/or supply smoke detectors. One required per unit.	All Sizes
CRSMKKIT003A00	Smoke Detector — Sensor with sampling tube, and exhaust tube. Can be used in return or supply air. One required for use with return or supply, two required if both return air and supply air detection is required. Brackets included for both vertical and horizontal configurations.	All Sizes

a. If mechanical cooling below 25°F ambient is necessary, consider additional low-ambient control measures (for example, economizer or low ambient).

ACCESSORY USAGE GUIDE FOR RGV 090-180 7.5, 8.5, 10, 12.5, 15 TONS

LOW AMBIENT ACCESSORY USAGE AND PARTS

UNITS	VOLTAGE	MOTOR	OTHER CONTROL NEEDED	CAPACITOR	TRANSFORMER KIT	LOW AMBIENT CONTROLLER
090-120, 180	208/230-3-60	(1) HC40GE233	(1) CRWINSTR001A00	Keep Factory Installed	N/A	(1) CRLAMBKT002A00
	460-3-60	(2) HC40GE463	(1) CRWINSTR001A00	Replace with (1) HC93CA013	N/A	(1) CRLAMBKT002A00
	575-3-60	(2) HC40GE463	(1) CRWINSTR001A00	Replace with (1) HC93CA013	(1) CRTRXKIT003A00	(1) CRLAMBKT002A00

NOTES:

1. The Capacitor Straps in the unit can be reused. If needed part numbers are as follows: HC93CA013 uses 50DK507522.
2. 150 Size models operate down to 0°F (-18°C) standard. No low ambient kit is available.
3. Changing one motor on 208/230/3/60 is correct, see installation instructions for details.

LEGEND

- N/A — Not Applicable
() — Quantity Required

LOW AMBIENT CONTROLS (090-120)

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRLAMBKT002A00	Low Ambient Solid-State Variable Speed Motor Controller enables cooling down to 0°F by varying the speed on the condenser fan.	Refer to Low Ambient Accessory Usage and Parts Table Above
HC40GE233	Low Ambient Compatible Condenser Fan Motor	
HC40GE463	Low Ambient Compatible Condenser Fan Motor	
HC93CA013	Dual MFD 10 + 10	
CRTRXKIT003A00	Transformer Kit: Used in conjunction with the above Low Ambient Controls. It converts 575-v to a 460-v condenser motor.	575-v Models

NOTES:

1. One CRWINSTR001A00 required per refrigerant circuit.
2. Units equipped with Hot Gas Re-Heat include Head Pressure Controls. For a Hot Gas Re-Heat unit to achieve low ambient cooling operation down to -20°F, only one CRWINSTR001A00 per circuit is required.
3. 150 size models operate down to 0°F (-18°C) standard. No low ambient kit is available.