ACCESSORY USAGE GUIDE FOR RGV 3 to 6 TONS

PACKAGED ROOFTOP GAS HEATING/ELECTRIC COOLING UNITS
14 SEER: 3, 4, 5 TON, 15 IEER: 6 TON

RGV units 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. 3-5 ton models use single stage cooling capacity control, 6 ton models use two stage cooling capacity control.

ASHRAE 90.1 COMPLIANT

AHRI CERTIFIED www.ahridirectory.org

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.

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STANDARD FEATURES
- R-410A HFC refrigerant
- Meets or exceeds ASHRAE 90.1 energy efficiency levels
- Single-stage cooling capacity control 036-060 models, two stage on 072 models
- Rated in accordance with AHRI Standard 210/240 (036-060 sizes) and 340/360 (072 size)
- Designed in accordance with Underwriters Laboratories Standard 1995
- Listed by UL and UL, Canada
- Exclusive 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
- Redundant gas valve, with 1 or 2 stages of heating
- Pre-painted exterior panels and tested to 500 hours salt spray protection
- Fixed refrigerant metering system on 036-060 models, TXV on 072 model
- Fully insulated cabinet
- Exclusive IGC solid-state control for on-board diagnostics with LED error code designation, burner control logic.
- Cooling operating range from 40°F up to 115°F.
- Access panels with easy grip handles and no-strip screw feature
- Two-inch disposable return air filters
- Tool-less filter access door
- New Direct Drive ECM with X-Vane™ Indoor Fan system
- New Unit Control Board with intuitive quick fan speed adjustment
- Field Convertible from vertical to horizontal airflow on all models. No special kit required
- 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
- Copper tube, aluminum fin coils
- 24-volt control circuit protected with resettable circuit breaker
- Permanently lubricated evaporator-fan motor
- Permanently lubricated, totally enclosed, shaft down condenser motors
- Low pressure, freeze protection, and high pressure switches
- 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

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

FACTORY INSTALLED OPTIONS INCLUDE BUT NOT LIMITED TO:
- Two position damper option (036-060)
- Disconnect and convenience outlet options
- Multiple optional static pressure motors
- Smoke detectors and CO_2 sensor options
- Corrosion resistant options for evaporator and condenser coils
- Integrated economizer system. Low and Ultra Low Leak versions available.
- Condensate Overflow Switch

For a complete list of options and accessories, refer to the Specification Sheets for this unit.

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NOMENCLATURE

RGV - ROOFTOP PRODUCT MODEL NUMBER IDENTIFICATION GUIDE

Position No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Example:	**R**	**G**	**V**	**0**	**6**	**0**	**L**	**D**	**D**	**B**	**0**	**A**	**A**	**A**

R = Rooftop

G = Gas Electric **TYPE**

V = 14 Seer (036-060), 15 IEER (072)
STANDARD EFFICIENCY

036 = 36,000 BTUH = 3 Tons
048 = 48,000 BTUH = 4 Tons
060 = 60,000 BTUH = 5 Tons
072 = 72,000 BTUH = 6 Tons **NOMINAL COOLING CAPACITY**

H = 208/230-3-60
K = 208/230-1-60
L = 460-3-60 **VOLTAGE**

D = Low Heat S = Low Heat, Stainless Steel Heat Exch.
E = Medium Heat R = Medium Heat, Stainless Steel Heat Exch.
F = High Heat T = High Heat, Stainless Steel Heat Exch.
HEATING CAPACITY (see spec sheet for actual capacities)

D = Standard Static Direct Drive EMC - Vane Axial Fan
E = High Static Direct Drive ECM - Vane Axial Fan
F = Medium Static Direct Drive ECM - Vane Axial Fan
G = High Static Direct Drive ECM - Vane Axial Fan with Hot Gas Re-Heat **MOTOR (Indoor Fan)**

A = None
B = Economizer w/Baro-relief, OA Temp sensor
E = Economizer w/Baro-relief + CO2 Sensor, OA Temp sensor
H = Economizer w/Baro-relief, enthalpy sensor
L = Economizer w/Baro-relief + CO2 Sensor, enthalpy sensor
U = Temp Ultra Low Leak Economizer w/Baro-relief
W = Enthalpy Ultra Low Leak Economizer w/Baro-relief
P = 2-Position damper (036-060) **OUTDOOR AIR OPTIONS / CONTROL** (See Spec Sheet for Details)

0A = Standard
4B = Non Fused Disconnect switch
AA = Hinged Acess 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** (See Spec Sheet for Details)

A = Aluminum / Copper Cond & Evap Coil
B = Precoat Alum/CU Cond & Alum / CU Evap
C = E-Coated Alum/Cu Cond & Alum / CU Evap
D = E-Coated Alum / Cu Cond & Evap
E = Cu / Cu Cond & Alum/Cu Evap
F = Copper/Copper Cond & Evap **CONDENSER / EVAPORATOR COIL CONFIGURATION** (See Spec Sheet for Details)

A = Economizer controls for EconoMi$er IV and all others (except factory Economizer X)
B = Economizer controls for EconoMi$er X **ECONOMIZER CONTROL**

NOTE: On single phase (K voltage code) models, the following are not available as factory installed options.
- Coated or copper fin coils
- Economizers or 2 position dampers
- Powered Outlet

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FIELD INSTALLED ACCESSORIES

ECONOMI$ER IV – LOW LEAK CONTROLLER INCLUDED

VERTICAL

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE*
CRECOMZR020A02	LOW LEAK Vertical EconoMi$er IV with solid-state controller, gear-driven, damper, spring return actuator, up to 100% barometric relief, supply and outdoor air temperature sensors, and CO2 sensor compatible, for use in non-DDC applications.	036-072 Elect Mech Controls

* RGV 072 models use two speed indoor fan logic, the above economizer is for single stage motor control. See application tip AB-18-0002 for further guidance when using this.

NOTES:

1 EconoMi$er IV cannot be installed with an EconoMi$er X, Manual Damper, or Motorized Damper.

2 When installed on a unit with hinged panels, hinged panel access kit is also required.

ECONOMI$ER IV - LOW LEAK CONTROLLER INCLUDED

HORIZONTAL

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE*
CRECOMZR024A02	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.	036-072 Elect Mech Controls

* RGV 072 models use two speed indoor fan logic, the above economizer is for single stage motor control. See application tip AB-18-0002 for further guidance when using this.

NOTES:

1 EconoMi$er IV cannot be installed with an EconoMi$er X, Manual Damper, or Motorized Damper.

2 When installed on a unit with hinged panels, hinged panel access kit is also required.

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ECONOMI$ER X – LOW LEAK, CONTROLLER INCLUDED

VERTICAL

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRECOMZR076A00	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 electro mechanical controls only. Controller meets Fault Detection and Diagnostic (FDD) requirements of California Title 24, IECC and ASHRAE 90.1.	036-072 Elect Mech Controls

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.

HORIZONTAL

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRECOMZR077A00	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 electro mechanical controls only. Controller meets Fault Detection and Diagnostic (FDD) requirements of California Title 24, IECC and ASHRAE 90.1.	036-072 Elect Mech Controls

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.

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ECONOMI$ER X - ULTRA LOW LEAK, CONTROLLER INCLUDED

VERTICAL

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRECOMZR067A01	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 electro mechanical 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 Fault Detection and Diagnostic (FDD) and damper leakage requirements of California Title 24, IECC and ASHRAE 90.1 Also meets AMCA Class 1A economizer damper test standards and labeling.	036-072 Elect Mech Controls

NOTES:

1 EconoMi$er X cannot be installed with an EconoMi$er IV, Manual Damper or Motorized Damper.

2 Currently only available on vertical air flow configuration models. Contact your local MicroMetl account manager 1-800-884-4662 if horizontal model is required.

3 When installed on a unit with hinged panels, hinged panel access kit is also required.

ACCESSORY KITS FOR UNITS WITH HINGED ACCESS PANELS

VERTICAL

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
DNPECONV003A00* (CRPECONV003A00)	Vertical accessory kit is required when field installing a vertical economizer on a unit that has hinged access panels. Includes angle and seal strip.	036-072

HORIZONTAL

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
DNHNGPNL001A00* (CRHNGPNL001A00)	Horizontal accessory kit is required when field installing a horizontal economizer on a unit that has hinged access panels. Includes door panel, angle and seal strip.	036-072

* DN accessory model numbers are available until inventory is depleted. Once inventory is depleted, use the CR accessory model number for ordering.

ACCESSORY USAGE GUIDE FOR RGV 3 to 6 TONS

FIELD INSTALLED ACCESSORIES

ECONOMIZER SENSORS

ECONOMIZER SENSOR USAGE CHART

DESIRED CONTROL METHOD		ECONOMI$ER IV [1] REQUIRED FIELD-INSTALLED SENSOR(S)	ECONOMI$ER X [1] REQUIRED FIELD-INSTALLED SENSOR(S)
Single Dry Bulb Control		None. Outside Air dry bulb sensor is factory installed.	None. Outside Air dry bulb sensor is factory installed.
Single Enthalpy Control		(1) AXB078ENT	(1) FAST #1185124
Differential Enthalpy Control		(1) AXB078ENT & (1) DNENTDIF004A00	(2) FAST #1185124
To Add CO_2 DCV Control with above:	Duct Mount	(1) DNCBDIOX005A00	(1) DNCBDIOX005A00

NOTE:

[1] OAT and SAT sensors included for EconoMi$er IV.or EconoMi$er X

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
DNTEMPSN002A00* (CRTEMPSN002A00)	Outdoor or Return Dry Bulb Temperature Sensor used with Electro-Mechanical control.	EconoMi$er IV
DNCBDIOX005A00* (CRCBDIOX005A00)	CO_2 Sensor for use in return airstream. Also includes Aspirator Box required for Duct Mounting.	EconoMi$er IV, X
AXB078ENT (--HH--57AC-078)	Accu-sensor || Economizer differential Enthalpy Control Upgrade	EconoMi$er IV
DNENTDIF004A00* (CRENTDIF004A00)	Return Air Enthalpy Sensor used with Electro-Mechanical controls, use with AXB078ENT for differential enthalpy control.	EconoMi$er IV
FAST #1185124 (--HH57AC--081)	Enthalpy Control for W7220 Controller only, (One required for single enthalpy, two required for different enthalpy)	Economi$er X

* DN accessory model numbers are available until inventory is depleted. Once inventory is depleted, use the CR accessory model number for ordering.

NOTE:

[1] Supply air temperature sensor (SAT and low ambient lockout switch) provided with EconoMi$er IV or EconoMi$er X

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FIELD INSTALLED ACCESSORIES

POWER EXHAUST OPTIONS

VERTICAL [1]

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRPWREXH030A01	Power Exhaust System (208/230-1-60)	036-072 208/230-1-60 208/230-3-60
CRPWREXH021A01	Power Exhaust System (460-3-60)	036-072 460-3-60

NOTES:
1. Vertical Power Exhaust requires a vertical Economizer.
2. Vertical Power Exhaust package includes exhaust hood, screens, and propeller fan system.

HORIZONTAL

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRPWREXH028A01	Horizontal Power Exhaust (208/230-1-60)	All 208/230-1-60 208/230-3-60 575-3-60
CRPWREXH029A01	Horizontal Power Exhaust (460-3-60)	All 460-3-60

NOTES:
1. Horizontal Power Exhaust should be duct-mounted in the return duct.
2. Horizontal Power Exhaust package includes exhaust hood, screens, and propeller fan system.

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OUTDOOR AIR DAMPER OPTIONS

MANUAL OUTDOOR AIR DAMPERS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE *
CRMANDPR001A03	25% Open Manual Outdoor Air Damper Package	036-072
CRMANDPR001A02	50% Open Manual Outdoor Air Damper Package	036-072

***** RGV 072 models use two speed indoor fan logic, the above damper is for single stage motor control. See application tip AB-18-0002 for further guidance when using this

NOTE: EconoMi$er IV, EconoMi$er X, Manual Damper and Motorized Damper are all mutually exclusive and cannot be installed together.

MOTORIZED OUTDOOR AIR DAMPERS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE *
CRTWOPOS010A00	Motorized 2-position outdoor air damper (25-100% Outdoor Air)	036-072

***** RGV 072 models use two speed indoor fan logic, the above damper is for single stage motor control. See application tip AB-18-0002 for further guidance when using this

NOTE: EconoMi$er IV, EconoMi$er X, Manual Damper and Motorized Damper are all mutually exclusive and cannot be installed together.

ADDITIONAL NOTES:

1. Manual dampers include hood assembly, bird screen, adjustable damper blade (to allow up to the rated outdoor air %), and bottom panel with opening.
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 %).
3. Motorized dampers will close on loss of power to the rooftop unit.
4. Manual and Motorized dampers are not compatible with a vertical power exhaust module.

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FIELD INSTALLED ACCESSORIES

LOUVERED HAIL GUARDS – CONDENSER COIL

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRLVHLGD046A00	Louvered Condenser Coil Hail Guard – Includes louvered panel(s) to protect condenser coil from damage and vandalism.	036 Size
CRLVHLGD047A00	Louvered Condenser Coil Hail Guard – Includes louvered panel(s) to protect condenser coil from damage and vandalism.	048 and 060 Sizes
CRLVHLGD048A00	Louvered Condenser Coil Hail Guard – Includes louvered panel(s) to protect condenser coil from damage and vandalism.	072 Size

ROOF CURB OPTIONS
STANDARD ROOF CURBS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRRFCURB001A01	14-inch (356 mm) Tall Roof Curb. Complies with NRCA standards. Ductwork attaches to the roof curb. Includes thru-the-bottom capability.	036-072
CRRFCURB002A01	24-inch (607 mm) Tall Roof Curb. Complies with NRCA standards. Ductwork attaches to the roof curb. Includes thru-the-bottom capability.	036-072

THRU-THE-BOTTOM CONNECTION KITS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRBTMPWR008A00	Thru-the-bottom electrical connections and thru-the-curb (not thru the bottom) gas connections. Includes a 3/4-inch (19 mm) diameter liquid tight conduit fitting for high voltage power wires and (2) 1/2-inch (13 mm) diameter liquid tight conduit fittings for thermostat wires and convenience outlet wires. Includes a 3/4-inch (19 mm) inside pipe coupling and gas plate assembly for thru-the-curb connections. Provides for watertight seals.	036-072
CRBTMPWR009A00	Thru-the bottom power, control and gas connections. Includes a 3/4-inch diameter liquid tight conduit fitting for high voltage power wires, (2) 1/2-inch diameter liquid tight conduits for thermostat wires and convenience outlet wires and 1/2-inch gas adapter fitting for gas piping. Provides for watertight seal.	036-072

NOTE: Access to the bottom of the RTU is required to install a THRU-THE-BOTTOM Connection Kit. Recommend installing kit prior to installing RTU on roof curb.

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FIELD INSTALLED ACCESSORIES

Table 1. NATURAL GAS & NATURAL GAS HIGH ALTITUDE KITS 036-072

		Unit Size - Natural Gas			
ELEVATION	UNIT SIZE (VOLTAGE)	036 - 072 (Three Phase)		036 - 060 (Single Phase)	
Ft (m)	Heat Size	CRLPELEV****** Required			
		Input	Kit	Input	Kit
0 – 2000 (610)	Low	67,000	As shipped	65,000	As shipped
	Med	110,000	As shipped	90,000	As shipped
	High	150,000	As shipped	130,000	As shipped
2000 (610)	Low	67,000	001A00	65,000	002A00
	Med	110,000		90,000	008A00
	High	150,000	[t]30	130,000	001A00
3000 (914)	Low	67,000	001A00	65,000	002A00
	Med	110,000		90,000	008A00
	High	150,000		130,000	001A00
4000 (1219)	Low	67,000	001A00	65,000	008A00
	Med	110,000		90,000	
	High	150,000		130,000	001A00
5000 (1524)	Low	67,000	001A00	65,000	008A00
	Med	110,000		90,000	
	High	150,000		130,000	001A00
6000 (1829)	Low	67,000	002A00	65,000	008A00
	Med	110,000		90,000	002A00
	High	150,000	001A00	130,000	
7000 (2134)	Low	67,000	002A00	65,000	008A00
	Med	110,000		90,000	002A00
	High	150,000	001A00	130,000	
8000 (2438)	Low	67,000	002A00	65,000	002A00
	Med	110,000		90,000	
	High	150,000	001A00	130,000	
9000 (2743)	Low	67,000	[t]40	65,000	002A00
	Med	110,000		90,000	003A00
	High	150,000	001A00	130,000	008A00
10000 (3048)	Low	67,000	[t]41	65,000	003A00
	Med	110,000		90,000	
	High	150,000	001A00	130,000	008A00
11000 (3353)	Low	67,000	[t]42	65,000	003A00
	Med	110,000		90,000	
	High	150,000	001A00	130,000	008A00
12000 (3658)	Low	67,000	[t]43	65,000	003A00
	Med	110,000		90,000	
	High	150,000	002A00	130,000	002A00
13000 (3962)	Low	67,000	[t]43	65,000	003A00
	Med	110,000		90,000	
	High	150,000	002A00	130,000	002A00
14000 (4267)	Low	67,000	002A00	65,000	003A00
	Med	110,000		90,000	004A00
	High	150,000	[t]40	130,000	003A00

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

Table 2. PROPANE GAS AND PROPANE GAS HIGH ALTITUDE KITS 036-060

		Unit Size – LP Gas			
ELEVATION	UNIT SIZE (VOLTAGE)	036-072 (Three Phase)		036 - 060 (Single Phase)	
Ft (m)	Heat Size	CRLPELEV****** Required			
		Input	Kit	Input	Kit
0 – 2000 (610)	Low	67,000	004A00	65,000	004A00
	Med	110,000	003A00	90,000	
	High	150,000	003A00	130,000	003A00
2000 (610)	Low	67,000	004A00	65,000	004A00
	Med	110,000		90,000	
	High	150,000	003A00	130,000	
3000 (914)	Low	67,000	004A00	65,000	004A00
	Med	110,000		90,000	
	High	150,000	003A00	130,000	
4000 (1219)	Low	67,000	004A00	65,000	004A00
	Med	110,000		90,000	
	High	150,000	003A00	130,000	
5000 (1524)	Low	67,000	004A00	65,000	004A00
	Med	110,000		90,000	
	High	150,000	003A00	130,000	
6000 (1829)	Low	67,000	004A00	65,000	004A00
	Med	110,000		90,000	
	High	150,000	003A00	130,000	
7000 (2134)	Low	67,000	004A00	65,000	004A00
	Med	110,000		90,000	
	High	150,000	003A00	130,000	
8000 (2438)	Low	67,000	004A00	65,000	004A00
	Med	110,000		90,000	
	High	150,000	003A00	130,000	
9000 (2743)	Low	67,000	004A00	65,000	004A00
	Med	110,000		90,000	
	High	150,000	003A00	130,000	
10000 (3048)	Low	67,000	004A00	65,000	004A00
	Med	110,000		90,000	
	High	150,000	003A00	130,000	
11000 (3353)	Low	67,000	004A00	65,000	004A00
	Med	110,000		90,000	
	High	150,000		130,000	
12000 (3658)	Low	67,000	004A00	65,000	[t]56
	Med	110,000		90,000	
	High	150,000		130,000	004A00
13000 (3962)	Low	672,000	004A00	65,000	[t]56
	Med	110,000		90,000	
	High	150,000		130,000	004A00
14000 (4267)	Low	67,000	[t]56	65,000	[t]56
	Med	110,000	004A00	90,000	
	High	150,000		130,000	004A00

NOTE: Units converted to LP may have a slightly lower firing rate than the Natural Gas base unit

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

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FIELD INSTALLED ACCESSORIES

LIQUID PROPANE (LP) / HIGH ALTITUDE GAS KITS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRLPELEV001A00	Propane and Hi Altitude conversion kit. Contains spuds sizes 31, 32, 33, 35, and 36 (5 spuds/ size) and other necessary conversion parts. Use this kit to convert Natural Gas rooftops to Propane and/or high altitude applications.	See Gas and High Altitude Tables 1 and 2 on pages 10 and 11
CRLPELEV002A00	Propane and Hi Altitude conversion kit. Contains spuds sizes 37, 38, 39, 44, and 45 (5 spuds/size) and other necessary conversion parts. Use this kit to convert Natural Gas rooftops to Propane and/or high altitude applications.	See Gas and High Altitude Tables 1 and 2 on pages 10 and 11
CRLPELEV003A00	Propane and Hi 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/or high altitude applications.	See Gas and High Altitude Tables 1 and 2 on pages 10 and 11
CRLPELEV004A00	Propane and Hi 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/or high altitude applications.	See Gas and High Altitude Tables 1 and 2 on pages 10 and 11
CRLPELEV008A00	Propane and Hi Altitude conversion kit. Contains spuds sizes 40, 41, 42, and 43 (10 spuds/size) and other necessary conversion parts. Use this kit to convert Natural Gas rooftops to Propane and/or high altitude applications.	See Gas and High Altitude Tables 1 and 2 on pages 10 and 11

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 inch Height. AGA certified.	036-072
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.	036-072

NOTE: CRFLUEDS001A00 and CRFLUEHD001A01 are mutually exclusive. Cannot install both on the same unit.

ACCESSORY USAGE GUIDE FOR RGV 3 to 6 TONS

FIELD INSTALLED ACCESSORIES

CONTROL UPGRADE KITS

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
DNTIMEGD001A00* (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 commercial thermostat has a minimum 5 min time delay between cooling cycles available (One required per unit)	All
DNWINSTR001A00* (CRWINSTR001A00)	Winter Start Package – Contains time delay relay for timed bypass of low pressure switch on startup. (One required per refrigerant circuit.)**	All
CRPHASE3001A02	Phase Monitor Control – Provides phase loss/phase reversal protection	All 3 Phase 208/230-3-60 460-3-60
CRSDTEST001A00	Remote keyed attenuator / test / reset station for use with factory installed smoke detectors. Includes power, alarm & trouble indicator lights.	All
CRSDHNSB001A00	Horn/Strobe Annunciator with clear colored lens, 24V AC/DC works with listed factory or field installed smoke detectors. Note: a field-supplied 24V transformer is also required for each application. P201-4701 is recommended and can be purchased through fast parts.	All
P201-4701	Transformer 75VA120/240/460-24	
CRCONVOUT01A00	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
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

* DN accessory models numbers are available until inventory is depleted. Once inventory is depleted, use the CR accessory model number for ordering.

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

ACCESSORY USAGE GUIDE FOR RGV 3 to 6 TONS

FIELD INSTALLED ACCESSORIES

LOW AMBIENT CONTROLS

Low Ambient Usage and Parts Table (036 - 072 Models)

UNITS	VOLTAGE	MOTOR	OTHER CONTROL NEEDED	CAPACITOR	Low Ambient CONTROLLER
RGV 036-072	208/230-1-60	1190763 (HC40GR242)	DNWINSTR001A00 (CRWINSTR001A00)	Keep Factory Installed	CRLAMBKT001A00
	208/230-3-60	1190763 (HC40GR242)	DNWINSTR001A00 (CRWINSTR001A00)	Keep Factory Installed	CRLAMBKT001A00
	460-3-60	1178186 (HC40GR461)	DNWINSTR001A00 (CRWINSTR001A00)	Replace with 1171108* (HC91CL010)	CRLAMBKT001A00

* The Capacitor Straps in the unit can be reused. If needed part numbers are as follows: 1171108 (HC91CL010) use 1171552 (HC98ZY071)

LOW AMBIENT CONTROLS (SIZE 036-072)

ORDERING NUMBER	DESCRIPTION	APPLICATION USAGE
CRLAMBKT001A00	Low Ambient Single-Phase Solid-State Variable Speed Motor Controller enables cooling down to -20°F by varying the speed on the condenser fan. Note: unit condenser motor is a single phase design.	Refer to Low Ambient Usage Table
1190763 (HC40GR242)	Low Ambient Compatible Ball Bearing Condenser Fan Motor	Refer to Low Ambient Usage Table
1178186 (HC40GR461)	Low Ambient Compatible Ball Bearing Condenser Fan Motor	Refer to Low Ambient Usage Table
1171108 (HC91CL010)	MFD 10	Refer to Low Ambient Usage Table

* One DNWINSTR001A00 also required per refrigerant circuit.

NOTE

RGV 072 models use Two-Stage Cooling Capacity Control Logic – Use Appropriate Thermostat