## Installation Instructions

Part No. CRNGELEV001A00, CRNGELEV002A00, CRLPELEV005A00, CRLPELEV006A00, CRLPKIT9001A00

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IMPORTANT: Read these instructions completely before attempting to install this accessory.

### **PACKAGE USAGE**

MODEL	UNIT SIZE
48FC	20-30
582K	20-30
RGV	210-336

### **PACKAGE CONTENTS**

PART NO. DESCRIPTION I		ITEM COMPONENT NUMBER		QTY	COMPONENT NAME
		2	LH32RF120 (#31)	9	Orifice, Burner
	High Altitude — Natural Gas Kit (3000 - 10,000 ft)	3	LH32RF116 (#32)	9	Orifice, Burner
CRNGELEV001A00		4	LH32RF111 (#34)	9	Orifice, Burner
	1412 (0000 10,000 11)	5	48TM501015	1	Label, High-Altitude Responsibility
		6	50HE501331	1	Label, Conversion Kit Rating Plate
		2	LH32RF110 (#35)	9	Orifice, Burner
		3	LH32RF104 (#37)	9	Orifice, Burner
CRNGELEV002A00	High Altitude — Natural Gas Kit (10,000 - 14,000 ft)	4	LH32RF103 (#39)	9	Orifice, Burner
	14,000 ty	5	48TM501015	1	Label, High-Altitude Responsibility
		6	50HE501331	1	Label, Conversion Kit Rating Plate
		2	LH32RF073 (#49)	9	Orifice, Burner
		3	LH32RF070 (#50)	9	Orifice, Burner
		4	LH32RF067 (#51)	9	Orifice, Burner
		5	CA01CA014	1	Nipple, 1/8 in. Pipe X 2-1/2 in.
		6	HK02LB008	1	Switch, Propane Pressure
CRLPELEV005A00	High Altitude — Propane Kit (2000 - 10,000 ft)	7	99MG737XC201018	1	Wire, Brown
	(2000 - 10,000 11)	8	EF39ZW023	2	Springs, Propane Conversion
		9	48TM501012 1 Label, Unit \		Label, Unit Warning
		10	48TM501013 1 Label, Propane C		Label, Propane Conversion
		11	48TM501014 1 Label, Propane		Label, Propane Responsibility
		12	50HE501340	1	Label, Conversion Kit Rating Plate

### **PACKAGE CONTENTS (CONT)**

PART NO.	DESCRIPTION	ITEM	COMPONENT NUMBER	QTY	COMPONENT NAME	
		2	LH32RF065 (#52)	9	Orifice, Burner	
		3	LH32RF060 (#53)	9	Orifice, Burner	
		4	CA01CA014	1	Nipple, 1/8 in. Pipe X 2-1/2 in.	
		5	HK02LB008	1	Switch, Propane Pressure	
CRLPELEV006A00	High Altitude — Propane Kit (10,000 - 14,000 ft)	6	99MG737XC201018	1	Wire, Brown	
CRLPELEVUUGAUU		7	EF39ZW023	2	Springs, Propane Conversion	
		8	48TM501012	1	Label, Unit Warning	
		9	48TM501013	1	Label, Propane Conversion	
		10	48TM501014	1	Label, Propane Responsibility	
		11	50HE501340	1	Label, Conversion Kit Rating Plate	
		2	LH32RF076 (#48)	9	Orifice, Burner	
		3	CA01CA014	1	Nipple, 1/8 in. Pipe X 2-1/2 in.	
		4	HK02LB008	1	Switch, Propane Pressure	
CRLPKIT9001A00	Standard Altitude — Propane	5	99MG737XC201018	1	Wire, Brown	
CREPKIT9001A00	Kit (0 - 2000 ft)	6	EF39ZW023	2	Springs, Propane Conversion	
		7	48TM501012	1	Label, Unit Warning	
		8	48TM501013 1 Label, Pro		Label, Propane Conversion	
	Ī	9	48TM501014	1	Label, Propane Responsibility	

#### **SAFETY CONSIDERATIONS**

Installation of this accessory can be hazardous due to system pressures, electrical components, and equipment location (such as a roof or elevated structure). Only trained, qualified installers and service technicians should install, start-up, and service this equipment.

When installing this accessory, observe precautions in the literature, labels attached to the equipment, and any other safety precautions that apply:

- Follow all safety codes
- · Wear safety glasses and work gloves
- · Use care in handling and installing this accessory

It is important to recognize safety information. This is the safety-alert symbol:  $\triangle$ . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, CAUTION, and NOTE. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which **will** result in severe personal injury or death. WARNING signifies hazards which **could** result in personal injury or death. CAUTION is used to identify unsafe practices, which **may** result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

### **⚠ WARNING**

FIRE, EXPLOSION, CARBON MONOXIDE POISONING, PROPERTY DAMAGE HAZARD

Failure to follow this warning could result in personal injury, death or property damage.

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted furnace is checked as specified in the manufacturer's instructions supplied in the kit.

### **↑ WARNING**

FEU, EXPLOSION, EMPOISONNEMENT PAR CARBON DE MONOXYDE, RISQUE DE DOMMAGE ÀLAPROPRIÉTÉ

La négligeance de suivre l'avis suivant, peut causer des blessures personnelles, la mort ou du dommage à la propriété.

Cette trousse de conversion doit être installée par un Entrepreneur qualifié, selon les instructions du fabricant et doit se conformer à toutes les exigences et tout les codes pertinents de l'autorité compétente. L'Entrepreneur qualifié est responsable, et doit s'assurer de bien suivre les instructions dans cet avis. L'installation sera considèrèè conforme et rencontrant les spécifications et instructions du fabriquant qui sont inclus dans la trousse, seulement aprés vérification de l'opération de la fournaise convertie.

### **⚠ WARNING**

EXPLOSION, PERSONAL INJURY HAZARD

Failure to follow this warning could result in personal injury or death.

Unit is designed to operate at 10.0 in. wg of manifold pressure on HIGH stage and 6.6 in. wg on LOW stage with PROPANE gas.

### **⚠ WARNING**

FIRE, EXPLOSION, ELECTRICAL HAZARD

Failure to follow this warning could result in personal injury, death or property damage.

Gas supply MUST be shut off before disconnecting electrical power and proceeding with conversion.

### **↑** WARNING

### ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death

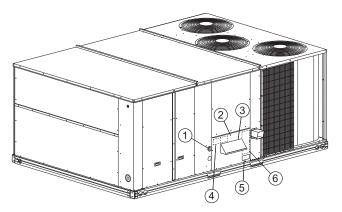
Before installing or servicing system, always turn off main power to system. There may be more than one disconnect switch. Tag disconnect switch with suitable warning label.

### **GENERAL**

These models are shipped from the factory equipped to operate with natural gas at elevations up to 3000 ft (914 m). The units must be modified if installed at elevations above 3000 ft (914 m) using natural gas, or if operated with propane at any altitude.

For installations in Canada, the unit rating bust be derated by 10% for altitudes of 2000 ft (610 m) to 4500 ft (1372 m) above sea level.

Five different gas conversion kits are available, as shown in Package Contents tables (see above). Each kit contains a particular range of orifice sizes plus other hardware and labels necessary for converting the unit. Refer to the Altitude Compensation table (at the end of this document) to determine the recommended orifice size based on fuel type and elevation. See Fig. 1 for Typical Base Unit conversion kit location.



Item	No. Description			
1	Gas Inlet			
2	Burner Access Panel			
3	Inlet Air Hood			
4	Propane Responsibility Label or High Altitude Responsibility Label (If specified, apply label to back side of panel)			
5 Warning Label (apply label to outside of panel)				
6	Conversion Kit Rating Plate Label (If specified, apply label to back side of panel)			

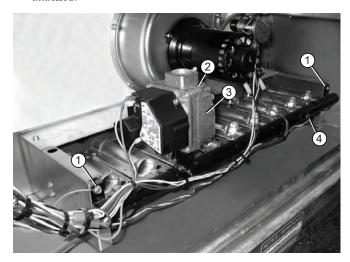
Fig. 1 — Typical Base Unit

## STANDARD/HIGH ALTITUDE PROPANE CONVERSION KIT INSTALLATION

## Step 1 — Remove Gas Manifold Assembly from Base Unit

- 1. Shut off main gas supply to unit.
- 2. Shut off power to unit and install lockout tag.
- 3. Remove burner access panel.
- 4. Disconnect gas piping to allow removal of gas manifold.
- 5. Disconnect and mark wires to gas valve and cut wire ties holding wire bundle to gas manifold.

- 6. Remove the 2 screws on each end of the gas manifold that attached it to the sheet metal side brackets. (See Fig. 2, Item 1.)
- Remove the gas manifold assembly with the gas valve attached.



Item	No. Description
1	Gas Manifold Mounting Screws (qty 2)
2	Gas Valve Inlet Plug
3	Propane Conversion Label (apply label where indicated)
4	Gas Manifold Pressure Tap

Fig. 2 — Gas Section Details

### Step 2 — Modify Gas Manifold / Valve Assembly

1. Remove existing gas orifices. Install the new orifices (as shown in Fig. 3) from the gas conversion kit, making sure they match the recommended size from Table 1.

IMPORTANT: Never use Teflon\* tape to seal gas orifice threads because peeling tape can plug the orifice.

\*. Teflon is a registered trademark of DuPont.

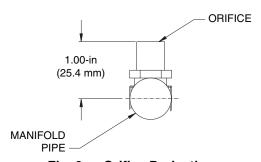


Fig. 3 — Orifice Projection

- 2. Remove the plug on the inlet end of the gas valve using a 3/16 in. hex wrench. (See Fig. 2, Item 2.)
- 3. Install the 1/8 in. x 2-1/2 in. nipple where the plug was removed. (See Fig. 4.) Use pipe thread dope or tape (field supplied, must be certified for use with propane gas) for all joints, making sure not to get any excess in the pipe or valve. Next, install the Propane Pressure Switch as shown in Fig. 4.
- 4. Connect supplied brown jumper wire from terminal "C" on the pressure switch to terminal "MP" on the gas valve as shown in Fig. 4.
- Remove regulator cover screws from gas regulators. (See Fig. 5.) Save regulator cover screws.

6. Using a screwdriver, remove plastic adjustment screws from both regulators. (See Fig. 5.) Save plastic adjust screws.

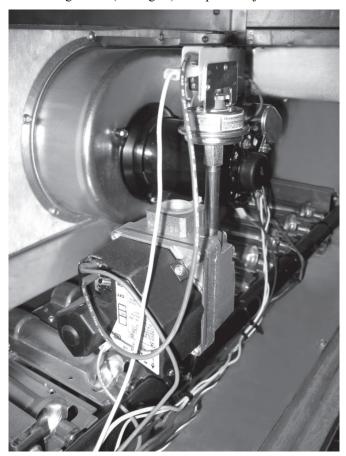


Fig. 4 — Propane Pressure Switch Piping and Wiring

- 7. Remove regulator springs (silver) from gas regulators. (See Fig. 5.) Discard the regulator springs.
- 8. Install propane gas regulator springs (white) shipped with the kit into the gas regulators. (See Fig. 5.)
- 9. Using the plastic adjust screws removed earlier, install one of the screws into the low stage gas regulator, turning it clockwise 13.5 turns. (See Fig. 5.) Install the remaining plastic adjust screw into the high stage gas regulator, turning it clockwise 9.5 turns. Replace regulator cover screws. (See Fig. 5.)

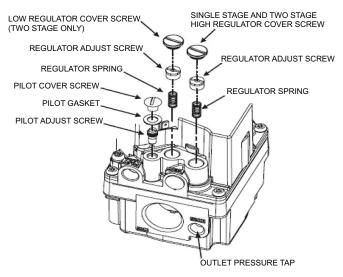


Fig. 5 — Two-Stage Spring Installation

## Step 3 — Re-install Gas Manifold / Valve Assembly

- 1. Remount the gas manifold assembly to the sheet metal side brackets using 2 screws on each end; make sure that the gas orifices are all inserted into the burners. (See Fig. 2.)
- 2. Reconnect the wires to the gas valve, except for the grey wire. Connect the grey wire to the "NO" (Normally Open) terminal on the pressure switch.
- 3. Using wire ties reconnect the wire bundle to the gas manifold making sure that the spark ignitor wire is kept separate and away from the bundle.
- 4. Connect gas piping to the gas valve.
- 5. Attach Propane Conversion Label to gas valve. (See Fig. 2, Item 3 and Fig. 7.)
- 6. Attach Unit Warning Label to burner access panel. (See Fig. 1, Item 5 and Fig. 6.)
- 7. Attach completed Propane Responsibility Label to inside of burner access panel (See Fig. 1, Item 4 and Fig. 8.)
- 8. For High Altitude Propane installations attach Conversion Kit Rating Plate Label to inside of burner access panel. (See Fig. 1, Item 6 and Fig. 10)
- 9. Leak check all gas connections including the main service connection, gas valve, gas spuds, and manifold pipe plug. All leaks must be repaired before firing unit. NOTE: Test pressure not to exceed 1/2 psi (13.8 in. wg).

### **⚠ WARNING**

### FIRE AND EXPLOSION HAZARD

Failure to follow this warning could result in personal injury and/or property damage.

Never test for gas leaks with an open flame. Use a commercially available soap solution made specifically for the detection of leaks to check all connections.

The newly installed low gas pressure switch is a safety device used to guard against adverse burner operating characteristics that can result from low gas supply pressure. Switch opens at not less than 7.2 in. wg and closes at not greater than 10.2 in. wg.

This switch also prevents operation when the propane tank level is low which can result in gas with a high concentration of impurities, additives, and residues that have settled to the bottom of the tank. Operation under these conditions can cause harm to the heat exchanger system. This normally open switch closes when gas is supplied to gas valve under normal Propane operating pressure of 11.0 to 13.0 in.wg. The closed switch completes control circuit. Should an interruption or reduction in gas supply occur, the gas pressure at switch drops below low gas pressure switch setting, and switch opens. Any interruption in control circuit (in which low gas pressure switch is wired) quickly closes gas valve and stops gas flow to burners.

# **A WARNING**

THIS UNIT IS DESIGNED TO OPERATE AT 10.0 ± 0.3" OF MANIFOLD PRESSURE WITH PROPANE GAS. EXCEEDING THIS PRESSURE WILL CAUSE EXPLOSION OR INJURY.

48TM501012 RE

Fig. 6 — Unit Warning Label – Propane Only

THIS UNIT HAS BEEN CONVERTED TO PROPANE GAS WITH FACTORY SUPPLIED PARTS.

MANIFOLD PRESSURE, 10.0" W.C.

48TM501013 REV 2

Fig. 7 — Propane Conversion Label – Propane Only

THIS FURNACE WAS CONVERTED ON	CÉ GÉNÉRATEUR D'AIR CHAUD A ÉTÉ CONVERTI LE
(Name and address of organization making this conversion), which accepts the responsibility that this conversion has been properly made.  48TM501014 REV-	(Nom et adresse de l' organisme qui a effectué la conversion), qui accepte l' entnere responsabilité de la conversion.

Fig. 8 — Propane Responsibility Label

## Step 4 — Check Unit Operation and Make Necessary Adjustments

NOTE: Propane gas supply pressure must not be less than 11 in. wg or greater than 13 in. wg at the unit connection.

- 1. Remove gas manifold pressure tap plug and connect pressure gauge or manometer. (See Fig. 2, Item 4.)
- 2. Turn on electrical supply.
- 3. Turn on unit main gas valve.
- 4. Set room thermostat to call for heat. Verify high-stage heat operation before attempting to adjust manifold pressure.
- When main burners ignite, check all fittings, manifold, and orifices for leaks.
- 6. Adjust high-stage pressure to 10.0 in. wg by turning the plastic adjust screw clockwise to increase pressure, or, counter-clockwise to decrease to pressure.
- 7. Set room thermostat to call for low-stage heat. Verify then adjust low-stage pressure to 6.6 in. wg.
- 8. Replace regulator cover screws when finished.
- 9. With burner access panel removed, observe unit heating operation in both high stage and low stage operation. Observe burner flames to see if they are blue in appearance, and that the flames are approximately the same for each burner.
- 10. Turn off unit, remove pressure manometer and replace the 1/8 in. pipe fitting on the gas manifold. (See Fig. 2, Item 4.)

### **⚠ WARNING**

## FIRE, EXPLOSION AND ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury, death and/or property damage.

Gas supply MUST be shut off before disconnecting electrical power and proceeding with conversion.

### **⚠ WARNING**

### FIRE AND EXPLOSION HAZARD

Failure to follow this warning could result in personal injury and/or property damage.

Never test for gas leaks with an open flame. Use a commercially available soap solution made specifically for the detection of leaks to check all connections.

### **⚠ WARNING**

### ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death.

Before installing or servicing system, always turn off main power to system. There may be more than one disconnect switch. Tag disconnect switch with suitable warning label.

### HIGH ALTITUDE NATURAL GAS CONVERSION KIT INSTALLATION

# **Step 1** — Remove Gas Manifold Assembly from Base Unit

- 1. Shut off main gas supply to unit.
- 2. Shut off power to unit and install lockout tag.
- 3. Remove burner access panel.

- 4. Disconnect gas piping at unit gas valve.
- 5. Disconnect and mark wires to gas valve and cut wire tines holding wire bundle to gas manifold.
- 6. Remove the 2 screws on each end of the gas manifold that attached it to the sheet metal side brackets. (See Fig. 2, Item 1.)
- Remove the gas manifold assembly with the gas valve attached.

### Step 2 — Modify Gas Manifold Assembly

1. Remove existing gas orifices. Install the new orifices (as shown in Fig. 3) from the gas conversion kit, making sure they match the recommended size from Table 1.

IMPORTANT: Never use Teflon tape to seal gas orifice threads because peeling tape can plug the orifice.

### Step 3 — Re-install Gas Manifold Assembly

- 1. Remount the gas manifold assembly to the sheet metal side brackets using 2 screws on each end; make sure that the gas orifices are all inserted into the burners. (See Fig. 2.)
- 2. Reconnect wires to gas valve.
- 3. Using wire ties reconnect the wire bundle to the gas manifold making sure that the spark ignitor wire is kept separate and away from the bundle.
- 4. Connect gas piping to the gas valve.
- Attach completed High Altitude Responsibility Label to inside of service access panel. (See Fig. 1, Item 4 and Fig. 9.)
- 6. Attach Conversion Kit Rating Plate Label to inside of burner access panel. (See Fig. 1, Item 6 and Fig, 10.)
- 7. Leak check all gas connections including the main service connection, gas valve, gas spuds, and manifold pipe plug. All leaks must be repaired before firing unit. NOTE: Test pressure not to exceed 1/2 psi (13.8 in wg).

## Step 4 — Check Unit Operation and Make Necessary Adjustments

- 1. Remove manifold pressure tap plug and connect pressure gauge or manometer. (See Fig. 2, Item 4.)
- 2. Turn on electrical supply.
- 3. Turn on unit main gas valve.
- 4. Set room thermostat to call for heat. Verify high-stage heat operation before attempting to adjust manifold pressure.
- 5. When main burners ignite, check all fittings, manifold, and orifices for leaks.
- 6. Adjust high-stage pressure to 3.0 in. wg by turning the plastic adjust screw clockwise to increase pressure, or, counterclockwise to decrease pressure.
- 7. Set room thermostat to call for low-stage heat. Verify then adjust low-stage pressure to 2.0 in. wg.
- 8. Replace regulator cover screw(s) when finished.
- 9. With burner access panel removed, observe unit heating operation in both high stage and low stage operation. Observe burner flames to see if they are blue in appearance, and that the flames are approximately the same for each burner.
- 10. Turn off unit, remove pressure manometer and replace the 1/8 in. pipe fitting on the gas manifold. (See Fig. 2, Item 4.)

THIS FURNACE WAS CONVERTED ON	CÉ GÉNÉRATEUR D'AIR CHAUD A ÉTÈ
FOR OPERATION ATft ()m ALTITUDE	CONVERTI LE POUR UTILISATION Á UNE ALTITUDE DE
WITH KIT NO	pi ()m AU MOYEN
BY	DE LA TRO_USSE N°
	PAR
(Name and address of organization making this conversion), which accepts the responsibility that this conversion has been properly made.  48TM501015 REV-	(Nom et adresse de l' organisme qui a effectué la conversion), qui accepte l' entnere responsabilité de la conversion.

Fig. 9 — High-Altitude Responsibility Label

CONVERSION KIT RATING PLATE NATURAL GAS HIGH ALTITUDE
APPLIES TO MODELS 48TC AND 48MC REFER TO MAIN RAITING PLAIT FOR SPECIFIC MODEL NUMBER. THIS UNIT HAS BEEN CONVERTED TO OPERATE WITH NATURAL GAS AT ALTITUDES FROM 3,000 TO 14,000 FEET DO NOT REQUIRE CONVERSION. REFER TO KIT INSTRUCTIONS FOR CONVERSION PROCEDURING.
CONVERSION KIT PART NUMBERS: CRNGELEVOIAOO FOR 3,000 TO 10,000 FT. ELEVATION CRNGELEVOZAOO FOR 10,000 TO 14,000 FT. ELEVATION
MANIFOLD PRESSURE: 3.0 IN. W.C. HIGH STAGE 2.0 IN. W.C. LOW STAGE MINIMUM GAS SUPPLY PRESSURE: 5.0 IN. W.C. MAXIMUM GAS SUPPLY PRESSURE: 13.0 IN. W.C.
REFER TO ALTITUDE COMPENSATION TABLES FOUND IN KIT INSTRUCTIONS FOR REQUIRED INFORMATION TO COMPLETE THIS SECTION.
INSTALLATION ALTITUDEFT
ORIFICE SIZE INSTALLED
INPUT RATE AT INSTALLATION ALTITUDEBTU/HR
FOR INSTALLATIONS IN CANADA, THE INPUT RATING SHOULD BE DERATED BY 10% FOR ALTITUDES FROM 2,000 FT (610 M) TO 4,500 FT (1372 M) ABOVE SEA LEVEL.
PLAQUE SIGNALÉTIQUE DE TROUSSE DE CONVERSION GAZ NATUREL HAUTE ALTITUDE
APPLICABLE AUX MODÉLES 49TC ET 48HC  SE RÉFERER À LA PLAQUE SIGNALETIQUE PRINCIPALE POUR LE NUMÉRO DE MODÈLE SPÉCIFIQUE   CET APPAREIL A FAIT L'OBJET D'UNE CONVERSION POUR UN FONCTIONNEMENT AU GAZ MATUREL À DES ALTITUDES SITUÉES ENTRE 3 000 ET 14 000 PIEDS. LES APPAREILS INSTALLES EN DESSOUS DE 3000 PIEDS NE MÉCESSITEMT PAS DE COMVERSION. SE RÉFERER AUX INSTRUCTIONS FOURNIES AVEC LA TROUSSE POUR OBTENIR LES PROCÉDURES DE CONVERSION.
NUMÉROS DE PIÈCE DES TROUSSES DE CONVERSION : CRNGELEVODIADO POUR ALITIVITÉS ENTRE 3 000 ET 10 000 PIEDS CRNGELEVOZADO POUR ALITIVITÉS ENTRE 10 000 ET 14 000 PIEDS
PRESSION DE COLLECTEUR: 3,0 DE COLONNE D EAU ÉTAGE SUPÉRIEUR
2.0 DE COLONNE D EAU ÉTAGE INFÉRIEUR PRESSION MINIMUM DE L ARRIVÉE DE GAZ : 5,0 DE COLONNE D EAU PRESSION MAXIMUM DE L ARRIVÉE DE GAZ 13,0 DE COLONNE D EAU
SE RÉFÉRER AU TABLEAU DE COMPENSATION D'ALTITUDE FOURNI AVEC LA TROUSSE POUR LES INFORMATIONS NÉCESSAIRES À L'ACHÉVEMENT DE CETTE SECTION.
ALTITUDE D'INSTALLATIONM
TAILLE DE LA BUSE INSTALLÉE
CAPACITÉ D'ENTRÉE À L'ALTITUDE D'INSTALLATIONBTU/HR
POUR LES INSTALLATIONS AUX CANADA. LA CAPACITÉE D'ENTRÉE DOIT ÊTRE DÉPRÉCIÉE D'ELOTE POUR LES ALTITURES SITUÉES ENTRE 2 000 PIEDS (610 MÉTRES) ET 4 500 PIEDS (137 2 MÉTRES) AU DESSUS DU NIVEAU DE LA MER.    SOUMESOISSIS DE LA MER.

CONVERSION KIT RATING PLATE PROPANE GAS APPLIES TO MODELS 48TC AND 48HC REFER TO MAIN RATING PLATE FOR SPECIFIC MODEL NUMBER. THIS UNIT HAS BEEK CONVERTED TO OPERATE WITH PROPANE GAS	
AT ALTITUDES FROM 0 TO 14,000 FEET REFER TO KIT INSTRUCTIONS FOR CONVERSION PROCEDURES. CONVERSION KIT PART NUMBERS: CREPKIT9001A00 FOR 0 TO 2,000 FT. ELEVATION	
CRLPELEYOGSAOO FOR 2,000 TO 10,000 FT. ELEVATION CRLPELEYOGSAOO FOR 10,000 TO 14,000 FT. ELEVATION MANIFOLD PRESSURE: 10.0 IN. W.C. HIGH STAGE	
MINIMUM GAS SUPPLY PRESSURE: 11.0 IN. W.C. MAXIMUM GAS SUPPLY PRESSURE: 13.0 IN. W.C.	
REFER TO ALTITUDE COMPENSATION TABLES FOUND IN KIT INSTRUCTIONS FOR REQUIRED INFORMATION TO COMPLETE THIS SECTION.	
INSTALLATION ALTITUDEFT	
ORIFICE SIZE INSTALLED	
INPUT RATE AT INSTALLATION ALTITUDEBTU/HR	
FOR INSTALLATIONS IN CANADA, THE INPUT RATING SHOULD BE DERATED BY 10% FOR ALTITUDES FROM 2,000 FT (610 M) TO 4,500 FT (1372 M) ABOVE SEA LEVEL.	
PLAQUE SIGNALÉTIQUE DE TROUSSE DE CONVERSION GAZ PROPANE	
APPLICABLE AUX MODÈLES 48TC ET 48HC SE RÉFÉRER À LA PLAQUE SIGNALÉTIOUE PRINCIPALE POUR LE NUMÉRO DE MODÈLE SPÉCIFIQUE CET APPAREIL A FAIT LOBJET D'UNE CONVERSION POUR UN FONCTIONNEMENT AU GAZ PROPAME À DES ALTITUDES SITUÉES ENTRE O ET 14 4000 PIEDS. SE RÉFÉRER AUX INSTRUCTIONS FOURNIES AVEC LA TROUSSE POUR OBTENIR LES PROCÉDURES DE CONVERSION.	
NUMÉROS DE PIÈCE DES TROUSSES DE CONVERSION : CRIPKIT9001A00 POUR ALTITUTES ENTRE O ET 2 000 PIEDS CRIPELEVOOSAOU POUR ALTITUTES ENTRE 2 000 ET 10 000 PIEDS CRIPELEVOOGAOU POUR ALTITUTES ENTRE 10 000 ET 14 000 PIEDS	
PRESSION DE COLLECTEUR: 10,0 DE COLONNE D EAU ÉTAGE SUPÉRIEUR 6,6 DE COLONNE D EAU ÉTAGE INFÉRIEUR PRESSION MINIMUM DE L ARRIVÉE DE GAZ : 11,0 DE COLONNE D EAU PRESSION MAXIMUM DE L ARRIVÉE DE GAZ : 13,0 DE COLONNE D EAU	
SE RÉFÉRER AU TABLEAU DE COMPENSATION D'ALTITUDE FOURNI AVEC LA TROUSSE POUR LES INFORMATIONS NÉCESSAIRES À L'ACHÈVEMENT DE CETTE SECTION.	
ALTITUDE D'INSTALLATIONM	
TAILLE DE LA BUSE INSTALLÉE	
CAPACITÉ D'ENTRÉE À L'ALTITUDE D'INSTALLATIONBTU/HR	
POUR LES INSTALLATIONS AUX CANADA, LA CAPACITÉE D ENTRÉE DOIT ÊTRE DÉPRÉCIÉE DE 101 POUR LES ALITITUÉES SITUÉES ENTRE 2 000 PIEDS (610 MÉTRES) ET 4 500 PIEDS (137 2 MÉTRES) AU DESSUS DO UNIVEAU DE LA MES	
50HE501340	2.0

Fig. 10 — Conversion Kit Rating Plate Label

# Table 1 — Altitude Compensation\* 48FC 20-30, 582K 20-30, RGV 210-336

### **NATURAL GAS**

ELEVATION		NOMINAL HEAT INPUT							
	М	176k I	ВТИН	220k l	ВТИН	310k l	ЗТИН	400k E	BTUH
FT		Orifice Size	Input (btu/hr)	Orifice Size	Input (btu/hr)	Orifice Size	Input (btu/hr)	Orifice Size	Input (btu/hr)
0 - 2,000	610	30	176,000	30	220,000	30	310,000	30	400,000
2,000	610	30	161,920	30	202,400	30	285,200	30	368,000
3,000	914	31 <sup>1</sup>	154,880	31 <sup>1</sup>	193,600	31 <sup>1</sup>	272,800	31 <sup>1</sup>	352,000
4,000	1219	31 <sup>1</sup>	147,840	31 <sup>1</sup>	184,800	31 <sup>1</sup>	260,400	31 <sup>1</sup>	336,000
5,000	1524	31 <sup>1</sup>	140,800	31 <sup>1</sup>	176,000	31 <sup>1</sup>	248,000	31 <sup>1</sup>	320,000
6,000	1829	31 <sup>1</sup>	133,760	31 <sup>1</sup>	167,200	31 <sup>1</sup>	235,600	31 <sup>1</sup>	304,000
7,000	2134	32 <sup>1</sup>	126,720	32 <sup>1</sup>	158,400	32 <sup>1</sup>	223,200	321	288,000
8,000	2438	321	119,680	321	149,600	321	210,800	321	272,000
9,000	2743	341	112,640	341	140,800	341	198,400	341	256,000
10,000	3048	35 <sup>2</sup>	105,600	35 <sup>2</sup>	132,000	35 <sup>2</sup>	186,000	35 <sup>2</sup>	240,000
11,000	3353	372	98,560	372	123,200	372	173,600	372	224,000
12,000	3658	372	91,520	372	114,400	372	161,200	372	208,000
13,000	3962	39 <sup>2</sup>	84,480	39 <sup>2</sup>	105,600	39 <sup>2</sup>	148,800	39 <sup>2</sup>	192,000
14,000	4267	392	77,440	392	96,800	392	136,400	392	176,000

### **PROPANE GAS**

ELEVATION		NOMINAL HEAT INPUT							
FT	М	176k BTUH		220k BTUH		310k BTUH		400k BTUH	
		Orifice Size	Input (btu/hr)	Orifice Size	Input (btu/hr)	Orifice Size	Input (btu/hr)	Orifice Size	Input (btu/hr)
0 - 2,000	610	485	176,000	485	220,000	485	310,000	485	400,000
2,000	610	493	161,920	493	202,400	493	285,200	493	368,000
3,000	914	49 <sup>3</sup>	154,880	493	193,600	49 <sup>3</sup>	272,800	493	352,000
4,000	1219	493	147,840	493	184,800	493	260,400	493	336,000
5,000	1524	50 <sup>3</sup>	140,800	50 <sup>3</sup>	176,000	50 <sup>3</sup>	248,000	503	320,000
6,000	1829	50 <sup>3</sup>	133,760	50 <sup>3</sup>	167,200	50 <sup>3</sup>	235,600	50 <sup>3</sup>	304,000
7,000	2134	50 <sup>3</sup>	126,720	50 <sup>3</sup>	158,400	50 <sup>3</sup>	223,200	50 <sup>3</sup>	288,000
8,000	2438	51 <sup>3</sup>	119,680	51 <sup>3</sup>	149,600	51 <sup>3</sup>	210,800	51 <sup>3</sup>	272,000
9,000	2743	51 <sup>3</sup>	112,640	51 <sup>3</sup>	140,800	51 <sup>3</sup>	198,400	51 <sup>3</sup>	256,000
10,000	3048	52 <sup>4</sup>	105,600	524	132,000	52 <sup>4</sup>	186,000	524	240,000
11,000	3353	52 <sup>4</sup>	98,560	524	123,200	52 <sup>4</sup>	173,600	524	224,000
12,000	3658	53 <sup>4</sup>	91,520	53 <sup>4</sup>	114,400	53 <sup>4</sup>	161,200	53 <sup>4</sup>	208,000
13,000	3962	53 <sup>4</sup>	84,480	534	105,600	53 <sup>4</sup>	148,800	534	192,000
14,000	4267	53 <sup>4</sup>	77,440	534	96,800	53 <sup>4</sup>	136,400	53 <sup>4</sup>	176,000

<sup>\*</sup> As the height above sea level increases, there is less oxygen per cubic ft. of air. Therefore, heat input rate should be reduced at higher altitudes.

#### KIT NO

 $xx^1 = CRNGELEV001A00$ 

xx<sup>2</sup> = CRNGELEV002A00

xx3 = CRNGELEV005A00

xx4 = CRNGELEV006A00

 $xx^5 = CRLPKIT9001A00$ 

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