Accessory Electric Heater and Single Point Box for Small Rooftop Units Electric Cooling/Heat Pump Select 3 to 6 Tons

Installation Instructions

Part No. CRHEATER323A00-CRHEATER341A00,
CRSINGLE 037A00, 038A00, 039A00, 040A00, 041A00 (STD SCCR)
CRSINGLE060A00-CRSINGLE063A00 (High SCCR)

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

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: ⚠. 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.

⚠ DANGER

ELECTRICAL SHOCK HAZARD

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

Before performing service or maintenance operations on unit, turn off main power switch to unit and install lock(s) and lock-out tag(s). Ensure electrical service to rooftop unit agrees with voltage and amperage listed on the unit rating plate. Unit may have more than one power switch.

⚠ CAUTION

PERSONAL INJURY HAZARD

Failure to follow this caution may result in personal injury.

Sheet metal parts may have sharp edges or burrs. Use care and wear appropriate protective clothing, safety glasses and gloves when handling parts and servicing air conditioning equipment.

PACKAGE USAGE

Carrier Models

MODEL NUMBER	CHASSIS GROUP	UNIT SIZES
50FC,50FE	AC-1	04-07
50GC, 50GE	AC-2	04-06
50JC	AC-3	04-06
50FCQ, 50FEQ	HP-1	04-07
50GCQ, 50GEQ	HP-2	04-06

Bryant Models

MODEL NUMBER	CHASSIS GROUP	UNIT SIZES
559K, 559L	AC-1	04-07
551K, 551L	AC-2	04-06
547K, 547L	HP-1	04-07
549K, 549L	HP-2	04-06

ICP Models

MODEL NUMBER	CHASSIS GROUP	UNIT SIZES
RAV, RAF	AC-1	036-072
RAW, RAG	AC-2	036-060
RHV, RHF	HP-1	036-072
RHW, RHG	HP-2	036-060

LEGEND

AC — Cooling Only (Air Conditioner)
HP — Heat Pump
1 — Standard Efficiency
2 — High Efficiency
3 — Ultra High Efficiency

PACKAGE CONTENTS

Electric Heaters

CRHEATER323A00 - CRHEATER341A00

QUANTITY	CONTENTS
1	Heater Module
4	Screws
1	Wiring Label
1	Red Wire (10 Gage)*
1	Splice Connector*
1	Wire Tie
1	Label, Max Temp/static

* Supplied with electric heater packages CRHEATER323A00-327A00, 329A00-331A00 only.

Single Point Boxes-STD SCCR

CRSINGLE037A00

QUANTITY	CONTENTS
1	Single Point Box Housing Assembly (Height 18 in./449 mm)
1	Terminal Block
3	Conductors, Tap, #10
1	Rain Shield With Conduit Seal
12	Screws, #10 X 1/2 in.
7	Wire Ties
1	Tube Clamp
1	Seal Strip

CRSINGLE038A00

QUANTITY	CONTENTS
1	Single Point Box Housing Assembly (Height 18 in./449 mm)
1	Terminal Block/Fuse Holder
1	Fuse Block
6	Fuses, 60-A Class RK5
1	Power Distribution Harness
3	Conductors, Tap, #10
1	Rain Shield With Conduit Seal
12	Screws, #10 X 1/2 In.
7	Wire Ties
1	Tube Clamp
1	Seal Strip

CRSINGLE039A00

QUANTITY	CONTENTS
1	Single Point Box Housing Assembly (Height 18 in./449 mm)
1	Terminal Block/Fuse Holder
2	Fuse Block
9	Fuses, 60-A Class RK5
1	Power Distribution Harness
3	Conductors, Tap, #10
1	Rain Shield With Conduit Seal
12	Screws, #10 X 1/2 In.
7	Wire Ties
1	Tube Clamp
1	Seal Strip

CRSINGLE040A00

QUANTITY	CONTENTS
1	Single Point Box Housing Assembly (Height 18 in./449 mm)
1	Terminal Block/Fuse Holder
1	Fuse Block
4	Fuses, 60-A Class RK5
1	Power Distribution Harness
2	Conductors, Tap, #10
1	Rain Shield With Conduit Seal
12	Screws, #10 X 1/2 In.
7	Wire Ties
1	Tube Clamp
1	Seal Strip

CRSINGLE041A00

QUANTITY	CONTENTS
1	Single Point Box Housing Assembly (Height 18 in./449 mm)
1	Terminal Block/Fuse Holder
1	Fuse Block
6	Fuses, 60-A Class RK5
1	Power Distribution Harness
2	Conductors, Tap, #10
1	Rain Shield With Conduit Seal
12	Screws, #10 X 1/2 In.
7	Wire Ties
1	Tube Clamp
1	Seal Strip

Single Point Boxes-High SCCR

CRSINGLE060A00

QUANTITY	CONTENTS
1	Single Point Box Housing Assembly 18 in. (449 mm)
1	Terminal Block
1	Fuse Block
2	Fuse Class J (JKS)
1	Unit Power Wire Harness - 6 GA, 2 Wire
1	Rain Shield
7	Screws
3	Wire Ties
1	Seal Strip

CRSINGLE061A00

QUANTITY	CONTENTS
1	Single Point Box Housing Assembly 18 in. (449 mm)
1	Terminal Block
2	Fuse Block
4	Fuse Class J (JKS)
1	Unit Power Wire Harness - 6 GA, 2 Wire
1	Rain Shield
7	Screws
3	Wire Ties
1	Seal Strip

CRSINGLE062A00

QUANTITY	CONTENTS
1	Single Point Box Housing Assembly 18 in. (449 mm)
1	Terminal Block
1	Fuse Block
3	Fuse Class J (JKS)
1	Unit Power Wire Harness - 6 GA, 2 Wire
1	Rain Shield
7	Screws
3	Wire Ties
1	Seal Strip

CRSINGLE063A00

QUANTITY	CONTENTS
1	Single Point Box Housing Assembly 18 in. (449 mm)
1	Terminal Block
2	Fuse Block
6	Fuse Class J (JKS)
1	Unit Power Wire Harness - 6 GA, 2 Wire
1	Rain Shield
7	Screws
3	Wire Ties
1	Seal Strip

GENERAL

This installation instruction manual describes the installation of electric heaters and associated fuse block/field power termination kits (single point box [SPB]) on select small rooftop units in nominal cooling capacities from 3 to 6 tons. See Package Usage tables on page 2 for applicable unit models. Unit types include cooling units (AC) and heat pump units (HP). Unit types AC-1, AC-2, AC-3, HP-1, and HP-2 are identified.

This information does not include selection data. Refer to project plans, job submittals and selection programs for heater and field power termination/SPB kit usage.

Electric Heaters

Heaters are shipped with one heater per carton. The carton is marked with a sales package number. On all heaters the heater model number (as marked on the heater dataplate) is the same as the sales package number.

The heaters are modular in design, with heater frames holding open coil resistance wires strung through ceramic insulators, limit switches and one or two control contactors. Power conductors are attached.

Heater modules are installed in the compartment below the indoor (supply) fan outlet. Access is through the indoor access panel. Heater modules slide into the compartment through the panel heater opening.

Not all available heater modules may be used in every unit. Use only those heater modules that are UL listed for use in a specific size unit. Refer to the label on the unit cabinet for the list of approved heaters. (See Fig. 1-3.) See Appendix B on page 24 for electric heater module data.

Single Point Boxes and Fuses

The Single Point Box (SPB) kits provide a field power termination location plus an enclosure for heater fuses when required by code. The SPBs are installed under the unit's main control box and include a cover plus all internal wiring. Minimum components of the SPB are a field power terminal block with tap conductors (to connect to the unit's main control box field terminals). Maximum component population includes up to five fuse blocks.

Fuses for electric heater circuits are required and provided when the unit's MOCP exceeds 60-A or when the total heater Full Load Amp value exceeds 48-A. When fuses are required and provided, the cooling circuit is also provided with fuse protection.

NO FUSES

If the unit's MOCP device rating is 60-A or less, then the MOCP device is recognized as providing the required overcurrent protection to the heater and no internal fusing is required. See tables at the beginning of Appendix A on page 20 for where-used information on the single point boxes and for connections figure number.

UNITS WITH FACTORY-INSTALLED HACR

The amp rating of the HACR factory-installed option is based on the size, voltage, indoor motor and other electrical options of the unit as shipped from the factory. When field-installed accessory electric heaters are added or changed in the unit, the HACR may no longer be of the proper amp rating and therefore will need to be removed from the unit. See unit nameplate and label on factory-installed HACR for the amp rating of the HACR that was shipped with the unit from the factory. See unit nameplates for the proper fuse, HACR or maximum over-current protection device required on the unit with field-installed electric heat.

SINGLE POINT BOX CONTENTS

See Package Content tables on page 2 for a list of components included in each single point box kit.

HIGH SCCR OPTION

Units with High SCCR ratings must use a Single Point Box (SPB) (specifically High SCCR application) for all electric heat installations. These boxes contain High SCCR fusing rated to protect the heaters. General installation of the Single Point Box (SPB) and Electric Heaters is the same for both STD SCCR and High SCCR units. Unit power wiring must enter through the SPB and then power is routed to the Unit Control Fuse Box using the wire harness provided. See High SCCR Single Point Box installation details in this document.

Control Wiring

Heater modules contain one or two heater control contactors. If a two-circuit heater module is installed, the cooling unit (AC type) can be connected for one-stage or two-stage heating control. On all heat pump units (HP type), all heater contactors will be connected to provide second-stage heating control.

Carrier Corporation
7310 WEST MORRIS STREET
INDIANAPOLIS, IN 46231 U.S.A.

MODEL **50FC-M08A2A5A0A0A0**
SERIAL
REFRIGERANT CHARGE R410A

Carrier Corporation
7310 WEST MORRIS STREET
INDIANAPOLIS, IN 46231 U.S.A.

MODEL **50FC-M08A2A5A0A0A0**
SERIAL

	QTY	VOLTS AC	PH	HZ	RLA	LRA	REF. SYSTEM R410A		TEST PRESSURE GAGE		
COMPR A	1	208/230	3	60	10.3	123	13.2 LBS	5.99 kg	HI	650 PSI	4482 kPa
COMPR B	1	208/230	3	60	10.3	123	LBS	kg	LO	450 PSI	3103 kPa
FAN MTR	QTY	VOLTS AC	PH	HZ	FLA		LBS	kg			
OUTDOOR	1	208/230	3	60	1.5						
INDOOR	1	208/230	3	60	8.6						
ELEC. HEAT											
OTHER											
ERV SUPPLY											
ERV EXHAUST											
ERV WHEEL											

CHARGE SYSTEM PER INSTALLATION INSTRUCTIONS
SUITABLE FOR OUTDOOR INSTALLATION

POWER SUPPLY	PH	HZ	MIN. CKT AMPS	MAX FUSE OR HACR BREAKER PER NEC	MIN UNIT DISCONNECT FLA	MIN UNIT DISCONNECT LRA
208/230 VOLTS	3	60	33	40	35	263
PERMISSIBLE VOLTAGE AT UNIT 253 MAX 187 MIN				MAX OVERCURRENT PROTECTION DEVICE 40		

CONTROL PANEL SCCR: 5kA RMS SYMMETRICAL VOLTAGE: MAX

DOWN SUPPLY
MIN CLEARANCE TO COMBUSTIBLE MATERIALS 1 INCHES 25 mm.
FOR FIRST 12 INCHES 305 mm. OF DUCT WHEN ELECTRIC HEATER IS INSTALLED

SIDE SUPPLY
MIN CLEARANCE TO COMBUSTIBLE MATERIALS 1 INCHES 25 mm.
FOR FIRST 12 INCHES 305 mm. OF DUCT WHEN ELECTRIC HEATER IS INSTALLED

*FOR INSTALLATION ON COMBUSTIBLE FLOORING OR CLASS A,B, OR C ROOFING MATERIAL

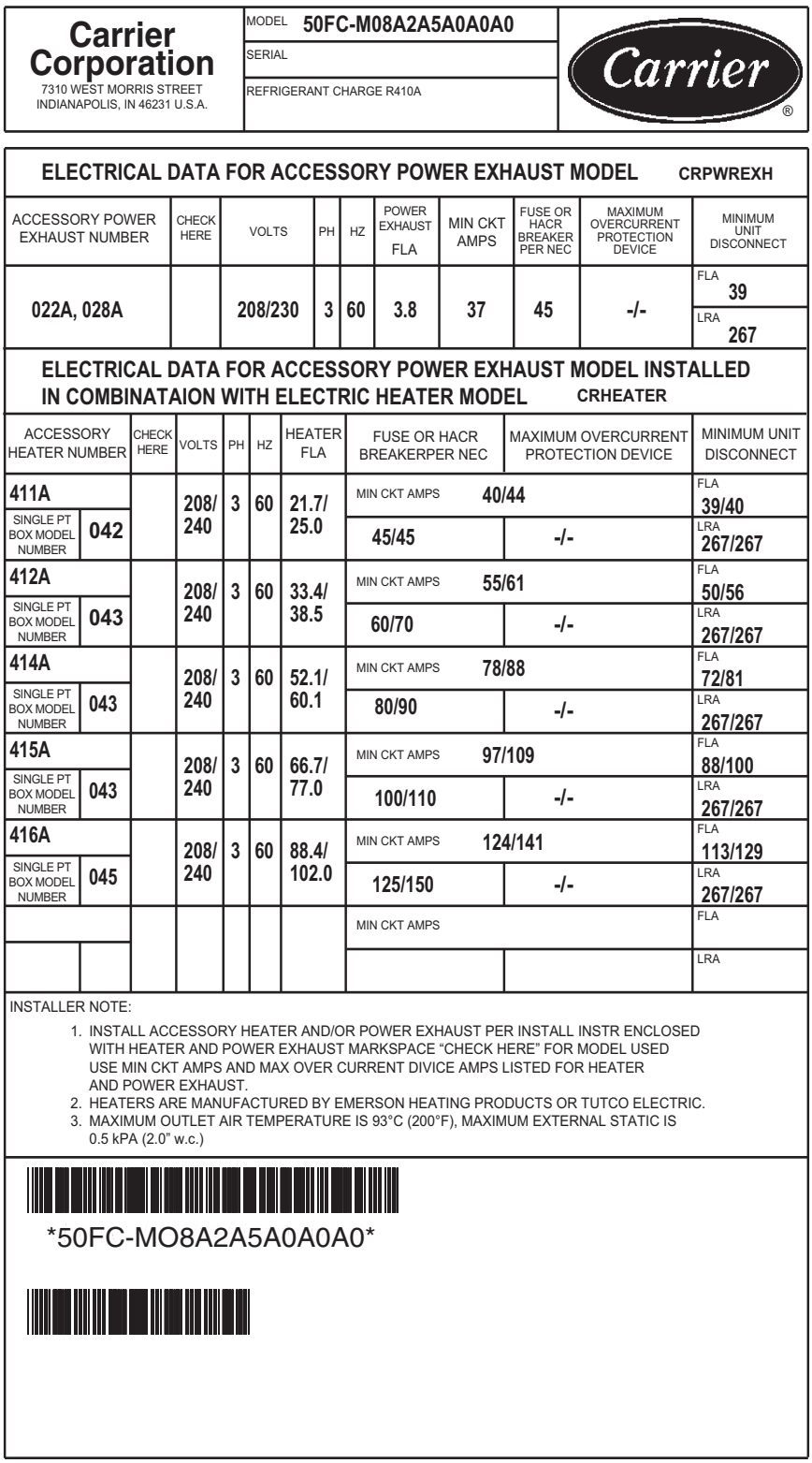
ACCESSORY POWER EXHAUST OR HEATER MODEL NUMBER	CHECK HERE	VOLTS	PH	HZ	HEATER FLA	MIN. CKT. AMPS	FUSE OR HACR BREAKER PER NEC	MAXIMUM OVERCURRENT PROTECTION DEVICE	SINGLE PT. BOX MODEL NUMBER	MINIMUM UNIT DISCONNECT FLA	MINIMUM UNIT DISCONNECT LRA
411A		208/240	3	60	21.7/25.5	36/40	40/40	– / –	042	35/36	263/263
412A		208/240	3	60	33.4/38.5	50/57	50/60	– / –	042	46/52	263/263
414A		208/240	3	60	52.1/60.1	74/84	80/90	– / –	043	67/76	263/263
415A		208/240	3	60	66.7/77.0	92/105	100/110	– / –	043	84/96	263/263
416A		208/240	3	60	88.4/102.0	119/136	125/150	– / –	043	109/125	263/263

INSTALLER NOTE:
1. INSTALL ACCESSORY HEATER PER INSTALL INSTR ENCLOSED WITH HEATER. MARK SPACE "CHECK HERE" FOR MODEL USED. USE MIN CKT AMPS AND MAX OVER CURRENT DIVICE AMPS LISTED FOR HEATER.
2. HEATERS ARE MANUFACTURED BY EMERSON HEATING PRODUCTS OR TUTCO ELECTRIC.
3. MAXIMUM OUTLET AIR TEMPERATURE IS 93°C (200°F), MAXIMUM EXTERNAL STATIC IS 0.5 kPA (2.0" w.c.)

	CAPACITY Btu/Hr	CAPACITY kW	IEER	COP
COOLING	87,000	25.5	15.2	

THIS EQUIPMENT COMPLIES WITH THE EFFICIENCY REQUIREMENTS OF ASHRAE 90.1-2016

Fig. 1 — Unit Informative Data Label (50FC Units)



Carrier Corporation
7310 WEST MORRIS STREET
INDIANAPOLIS, IN 46231 U.S.A.

MODEL **50FC-M08A2A5A0A0A0**
SERIAL
REFRIGERANT CHARGE R410A

Carrier®

ELECTRICAL DATA FOR ACCESSORY POWER EXHAUST MODEL CRPWREXH

ACCESSORY POWER EXHAUST NUMBER	CHECK HERE	VOLTS	PH	HZ	POWER EXHAUST FLA	MIN CKT AMPS	FUSE OR HACR BREAKER PER NEC	MAXIMUM OVERCURRENT PROTECTION DEVICE	MINIMUM UNIT DISCONNECT
022A, 028A		208/230	3	60	3.8	37	45	-/-	FLA 39 LRA 267

ELECTRICAL DATA FOR ACCESSORY POWER EXHAUST MODEL INSTALLED IN COMBINATAION WITH ELECTRIC HEATER MODEL CRHEATER

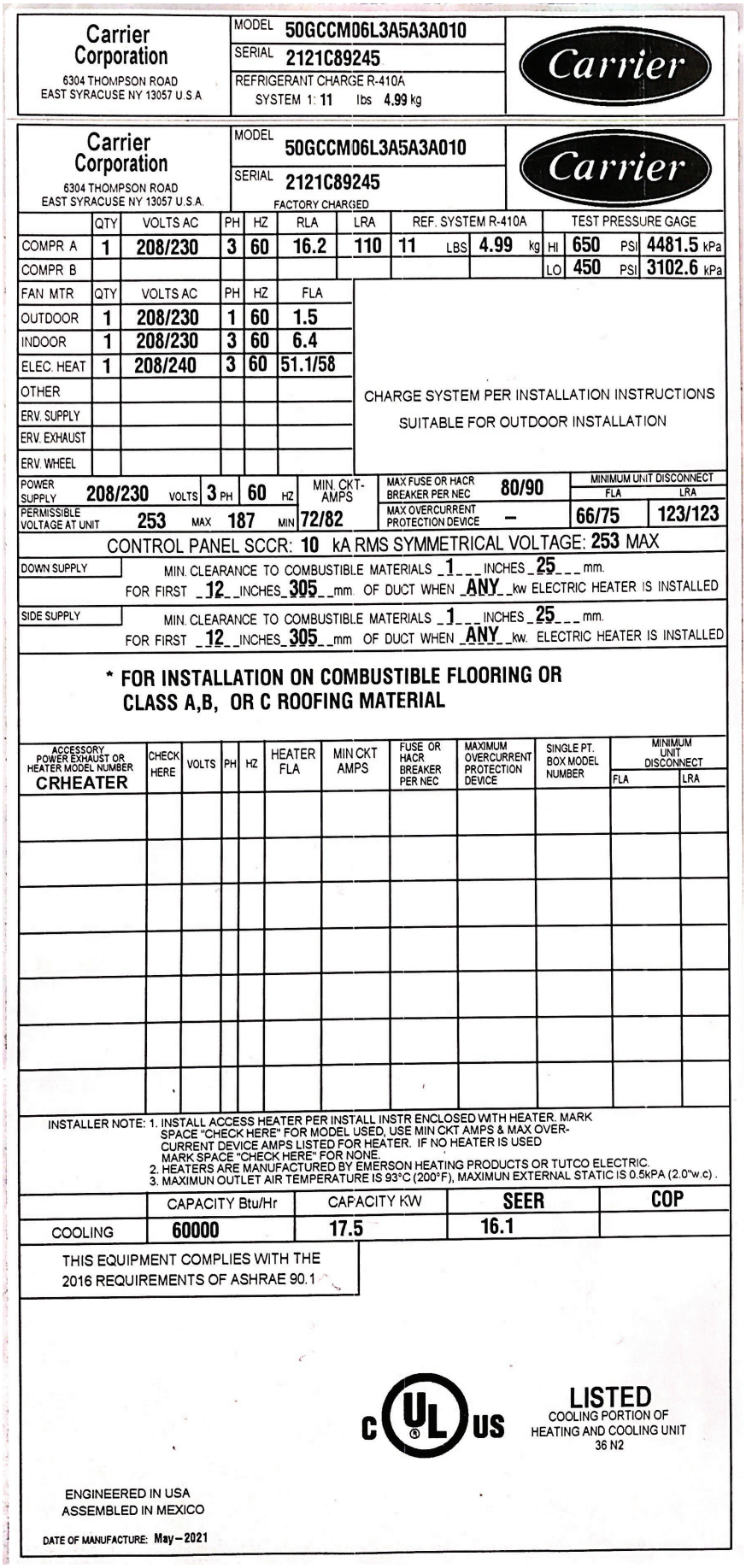
ACCESSORY HEATER NUMBER	SINGLE PT BOX MODEL NUMBER	CHECK HERE	VOLTS	PH	HZ	HEATER FLA	FUSE OR HACR BREAKERPER NEC	MAXIMUM OVERCURRENT PROTECTION DEVICE	MINIMUM UNIT DISCONNECT
411A	042		208/240	3	60	21.7/25.0	MIN CKT AMPS 40/44		FLA 39/40
							45/45	-/-	LRA 267/267
412A	043		208/240	3	60	33.4/38.5	MIN CKT AMPS 55/61		FLA 50/56
							60/70	-/-	LRA 267/267
414A	043		208/240	3	60	52.1/60.1	MIN CKT AMPS 78/88		FLA 72/81
							80/90	-/-	LRA 267/267
415A	043		208/240	3	60	66.7/77.0	MIN CKT AMPS 97/109		FLA 88/100
							100/110	-/-	LRA 267/267
416A	045		208/240	3	60	88.4/102.0	MIN CKT AMPS 124/141		FLA 113/129
							125/150	-/-	LRA 267/267
							MIN CKT AMPS		FLA
									LRA

INSTALLER NOTE:

1. INSTALL ACCESSORY HEATER AND/OR POWER EXHAUST PER INSTALL INSTR ENCLOSED WITH HEATER AND POWER EXHAUST MARKSPACE “CHECK HERE” FOR MODEL USED USE MIN CKT AMPS AND MAX OVER CURRENT DIVICE AMPS LISTED FOR HEATER AND POWER EXHAUST.
2. HEATERS ARE MANUFACTURED BY EMERSON HEATING PRODUCTS OR TUTCO ELECTRIC.
3. MAXIMUM OUTLET AIR TEMPERATURE IS 93°C (200°F), MAXIMUM EXTERNAL STATIC IS 0.5 kPA (2.0” w.c.)

50FC-MO8A2A5A0A0A0

Fig. 2 — Unit Informative Data Label, Power Exhaust Installed (50FC Units)



Carrier Corporation
6304 THOMPSON ROAD
EAST SYRACUSE NY 13057 U.S.A.

MODEL 50GCCM06L3A5A3A010
SERIAL 2121C89245
REFRIGERANT CHARGE R-410A
SYSTEM 1: 11 lbs 4.99 kg

Carrier

Carrier Corporation
6304 THOMPSON ROAD
EAST SYRACUSE NY 13057 U.S.A.
MODEL 50GCCM06L3A5A3A010
SERIAL 2121C89245
FACTORY CHARGED
Carrier

	QTY	VOLTS AC	PH	HZ	RLA	LRA	REF. SYSTEM R-410A		TEST PRESSURE GAGE		
COMPR A	1	208/230	3	60	16.2	110	11 LBS	4.99 kg	HI	650 PSI	4481.5 kPa
COMPR B									LO	450 PSI	3102.6 kPa

FAN MTR	QTY	VOLTS AC	PH	HZ	FLA
OUTDOOR	1	208/230	1	60	1.5
INDOOR	1	208/230	3	60	6.4
ELEC. HEAT	1	208/240	3	60	51.1/58
OTHER					
ERV. SUPPLY					
ERV. EXHAUST					
ERV. WHEEL					

CHARGE SYSTEM PER INSTALLATION INSTRUCTIONS
SUITABLE FOR OUTDOOR INSTALLATION

POWER SUPPLY	208/230 VOLTS	3 PH	60 HZ	MIN. CKT-AMPS	MAX FUSE OR HACR BREAKER PER NEC	80/90	MINIMUM UNIT DISCONNECT FLA	LRA
PERMISSIBLE VOLTAGE AT UNIT	253 MAX	187 MIN		72/82	MAX OVERCURRENT PROTECTION DEVICE	–	66/75	123/123

CONTROL PANEL SCCR: 10 kA RMS SYMMETRICAL VOLTAGE: 253 MAX

DOWN SUPPLY
MIN. CLEARANCE TO COMBUSTIBLE MATERIALS 1 INCHES 25 mm.
FOR FIRST 12 INCHES 305 mm OF DUCT WHEN ANY kw ELECTRIC HEATER IS INSTALLED

SIDE SUPPLY
MIN. CLEARANCE TO COMBUSTIBLE MATERIALS 1 INCHES 25 mm.
FOR FIRST 12 INCHES 305 mm OF DUCT WHEN ANY kw. ELECTRIC HEATER IS INSTALLED

*** FOR INSTALLATION ON COMBUSTIBLE FLOORING OR CLASS A,B, OR C ROOFING MATERIAL**

ACCESSORY POWER EXHAUST OR HEATER MODEL NUMBER	CHECK HERE	VOLTS	PH	HZ	HEATER FLA	MIN CKT AMPS	FUSE OR HACR BREAKER PER NEC	MAXIMUM OVERCURRENT PROTECTION DEVICE	SINGLE PT. BOX MODEL NUMBER	MINIMUM UNIT DISCONNECT FLA	LRA
CRHEATER											

INSTALLER NOTE: 1. INSTALL ACCESS HEATER PER INSTALL INSTR ENCLOSED WITH HEATER. MARK SPACE "CHECK HERE" FOR MODEL USED, USE MIN CKT AMPS & MAX OVER-CURRENT DEVICE AMPS LISTED FOR HEATER. IF NO HEATER IS USED MARK SPACE "CHECK HERE" FOR NONE.
2. HEATERS ARE MANUFACTURED BY EMERSON HEATING PRODUCTS OR TUTCO ELECTRIC.
3. MAXIMUN OUTLET AIR TEMPERATURE IS 93°C (200°F), MAXIMUN EXTERNAL STATIC IS 0.5kPA (2.0"w.c).

	CAPACITY Btu/Hr	CAPACITY KW	SEER	COP
COOLING	60000	17.5	16.1	

THIS EQUIPMENT COMPLIES WITH THE 2016 REQUIREMENTS OF ASHRAE 90.1

c UL us LISTED
COOLING PORTION OF HEATING AND COOLING UNIT
36 N2

ENGINEERED IN USA
ASSEMBLED IN MEXICO

DATE OF MANUFACTURE: May–2021

Fig. 3 — Unit Informative Data Label, Power Exhaust Installed (High SCCR-50GC Units)

Carrier Corporation 6304 THOMPSON ROAD EAST SYRACUSE NY 13057 U.S.A.	MODEL 50GCCM06L3A5A3A010 SERIAL 2121C89245 REFRIGERANT CHARGE R-410A	Carrier

ELECTRICAL DATA FOR ACCESSORY POWER EXHAUST MODEL CRPWREXH

ACCESSORY POWER EXHAUST NUMBER	CHECK HERE	VOLTS	PH	HZ	POWER EXHAUST FLA	MIN CKT AMPS	FUSE OR HACR BREAKER PER NEC	MAXIMUM OVERCURRENT PROTECTION DEVICE	MINIMUM UNIT DISCONNECT
030A, 028A		208/230	1	60	1.9	75/84	80/90	–/–	FLA 68/77 LRA 125/125

ELECTRICAL DATA FOR ACCESSORY POWER EXHAUST MODEL INSTALLED IN COMBINATION WITH ELECTRICAL HEATER MODEL CRHEATER

ACCESSORY HEATER NUMBER	CHECK HERE	VOLTS	PH	HZ	HEATER FLA	FUSE OR HACR BREAKER PER NEC	MAXIMUM OVERCURRENT PROTECTION DEVICE	MINIMUM UNIT DISCONNECT
						MIN. CIRCUIT AMPS		FLA
SINGLE PT BOX MODEL NUMBER								LRA
						MIN. CIRCUIT AMPS		FLA
SINGLE PT BOX MODEL NUMBER								LRA
						MIN. CIRCUIT AMPS		FLA
SINGLE PT BOX MODEL NUMBER								LRA
						MIN. CIRCUIT AMPS		FLA
SINGLE PT BOX MODEL NUMBER								LRA
						MIN. CIRCUIT AMPS		FLA
SINGLE PT BOX MODEL NUMBER								LRA
						MIN. CIRCUIT AMPS		FLA
SINGLE PT BOX MODEL NUMBER								LRA

INSTALLER NOTE:

1. INSTALL ACCESS HEATER AND/OR POWER EXHAUST PER INSTALL INSTR ENCLOSED WITH HEATER AND POWER EXHAUST. MARKSPACE "CHECK HERE" FOR MODEL USED. USE MIN CKT AMPS AND MAX OVER CURRENT DEVICE AMPS LISTED FOR HEATER AND POWER EXHAUST.
2. HEATERS ARE MANUFACTURED BY EMERSON HEATING PRODUCTS OR TUTCO ELECTRIC.
3. MAXIMUN OUTLET AIR TEMPERATURE IS 93°C (200°F), MAXIMUN EXTERNAL STATIC IS 0.5 kPA (2.0" w.c.).

50GCCM06L3A5A3A010

2121C89245

ENGINEERED IN USA
ASSEMBLED IN MEXICO

DATE OF MANUFACTURE: May–2021

AHRI CERTIFIED™
C
www.ahridirectory.org

Fig. 3 — Unit Informative Data Label, Power Exhaust Installed (High SCCR-50GC Units) (cont)

GENERAL INSTALLATION SEQUENCE

1. Pre-stage heater packages and single point boxes by placing the required component cartons at each unit.
2. Check the heater sales package number and single point box part number (if used) against the part numbers on the unit's dataplate. See Fig. 1-3 for typical data.
3. Disconnect power wiring into unit control box from factory-installed non-fused disconnect switch or HACR breaker and withdraw wiring from control box.
4. Install the single point box and connect power wiring tap conductors to field power terminals in main control box.
5. Remove heater cover and save screws.
6. Install the electric heater module and connect heater power conductors to single point box or main unit control box per appropriate connections figure. (See Appendix A on page 20.) See Fig. 4 for typical installation.
7. On AC-1, AC-2, HP-1, and HP-2 units connect the heater control contactors to unit terminal block TB4. ON AC-3 units, connect the heater control contactors to unit terminal block TB2.
8. Mark the unit dataplate to indicate which heater module(s) have been installed.
9. Select and install suitable field power conductors from external safety disconnect to unit power connection points, or confirm wiring already provided is suitable for required MIN CKT AMPS. NOTE: The required wire size ampacity for the field power supply conductors as marked on the unit dataplate as MIN CKT AMPS for accessory heater(s) plus convenience outlet and power exhaust when provided.

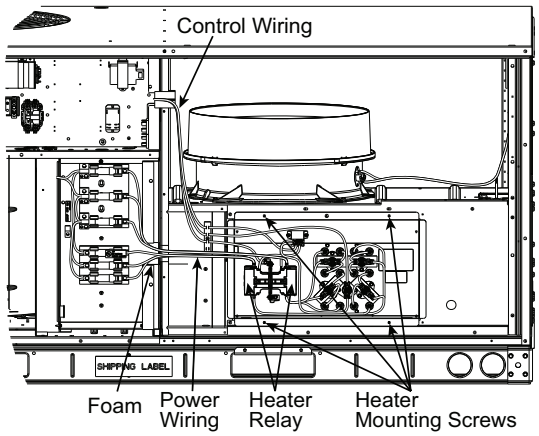


Fig. 4 — Typical Single Point Kit Installation

INSTALLATION INSTRUCTIONS

Compare the sales package number(s) for scheduled heater modules against the approved usage table on the unit's dataplate. See Fig. 1-3 for typical dataplate. If the scheduled heater usage does not appear on the unit dataplate label, STOP. Contact the project engineer or the local distributor sales office for clarification.

Open the cartons and inspect for damage.

Installing Single Point Box

1. Disconnect power to the unit. Lockout/tag-out on unit disconnect switch.
2. Remove the outdoor access panel, control box cover, and indoor access panels from the unit. Save screws. See Fig. 5.
3. Use a voltmeter to check that no power is present at unit terminal block.
4. Remove control box cover and center post. Save screws. (See Fig. 6.)
5. If unit does not have the factory-installed disconnect or HACR option or has not had field power wiring connected, skip to Step 6.When unit is equipped with factory-installed disconnect or HACR or has field power wiring connected, disconnect the power leads at the control box terminals and withdraw the conductors from the control box.
6. Add seal strip to the rear bottom corner of the control panel as shown in Fig. 7. Foil tape open screw holes on the back of the single point box as shown in Fig. 7. Different single point boxes will have different screw holes open.
7. All bushings in the area of the control box where the single point box (SPB) mounts, must be removed prior to securing the SPB to the control box. (See Fig. 8.) Also, for units installed in the snow belt, all unplugged holes in the bottom of the control box which are not used must be plugged before installing the SPB. Use foil tape or reinstall the bushings from the outside of the control box prior to securing the SPB. (See Fig. 9.)
8. Remove the single point box cover. Secure single point box to the underside of the control box with the 2 screws provided. (See Fig. 4.) Re-install bushing on the SPB tap conductors. (See Fig. 9.)

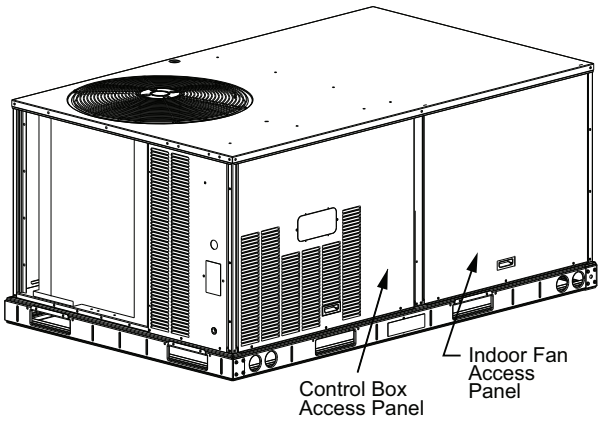
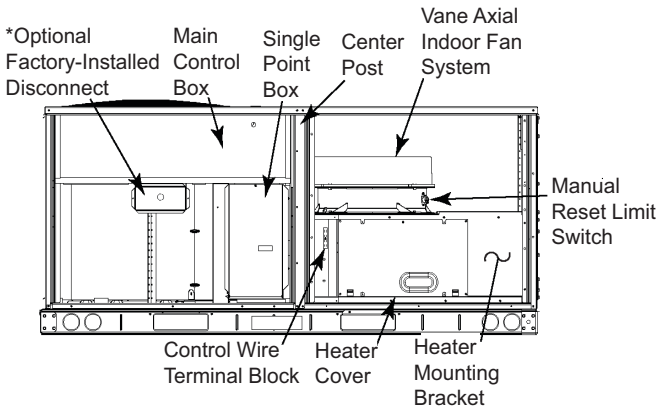


Fig. 5 — Typical Access Panel Location



* Unit Fuse Box for HSCCR units.

Fig. 6 — Typical Component Location

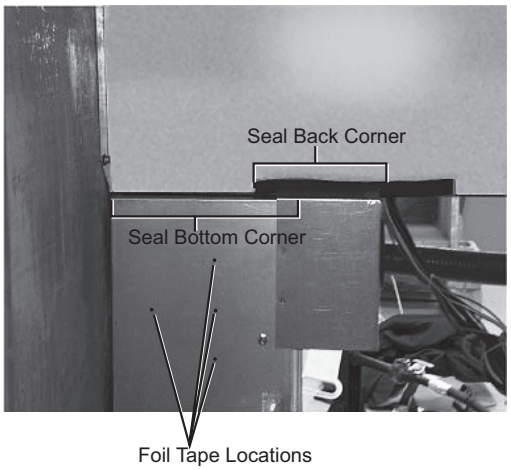


Fig. 7 — Seal Strip and Foil Tape Location

9. Secure the rainshield (conduit drip boot bracket) assembly to the back of the single point box with 2 of the screws provided. The channel portion of the bracket assembly extends to the top panel behind the control box. Secure all wires to bracket with field-supplied wire tie as shown. (See Fig. 10.) See Fig. 11 for High SCCR units.
10. Connect power tap conductors to unit main control box. See Fig. 12 for High SCCR units.
11. For High SCCR installations, route Unit Power Harness (provided) from Single Point Box (SPB) to the Unit Control Fuse Box as shown in Fig. 12. Ensure "drip-loop" is provided to prevent moisture from entering control box(es).

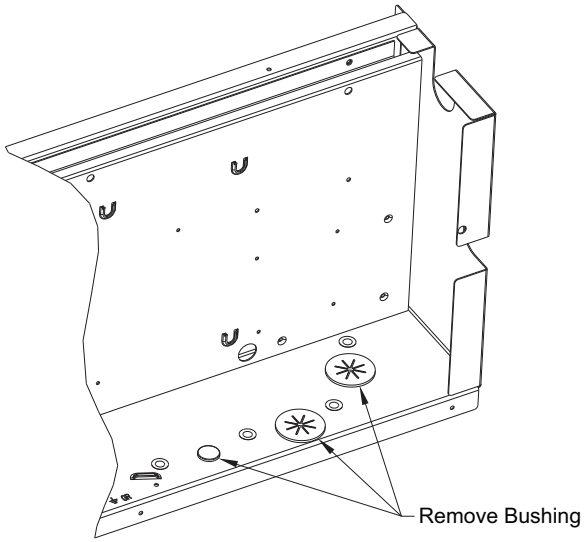


Fig. 8 — Control Box - Bushings to Remove (STD SCCR and High SCCR)

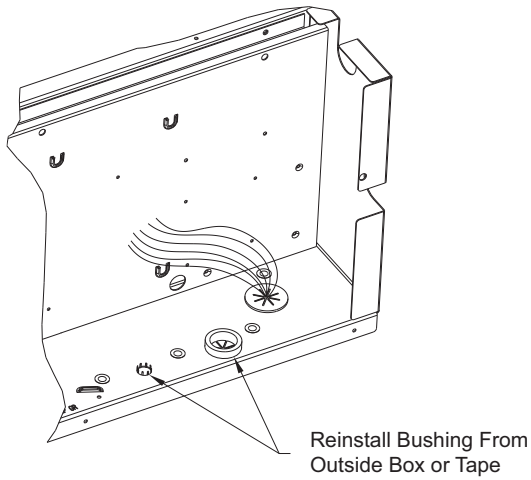


Fig. 9 — Bushings Replaced from Outside Control Box (STD SCCR and High SCCR)

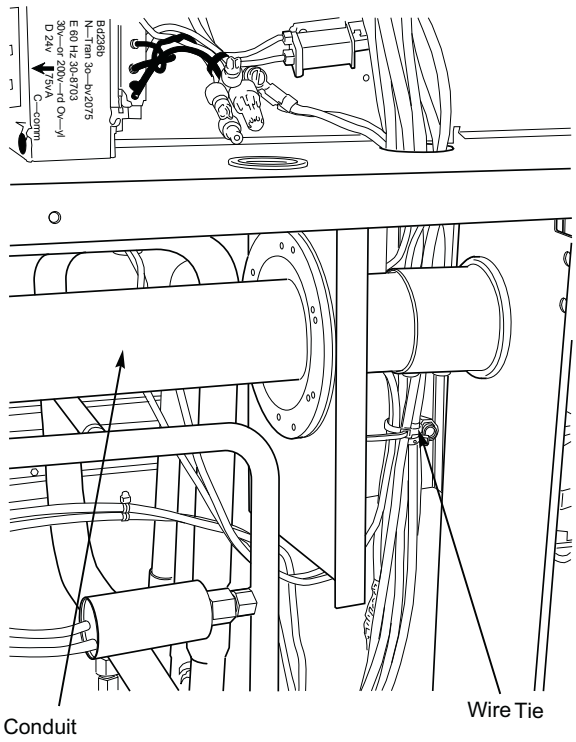
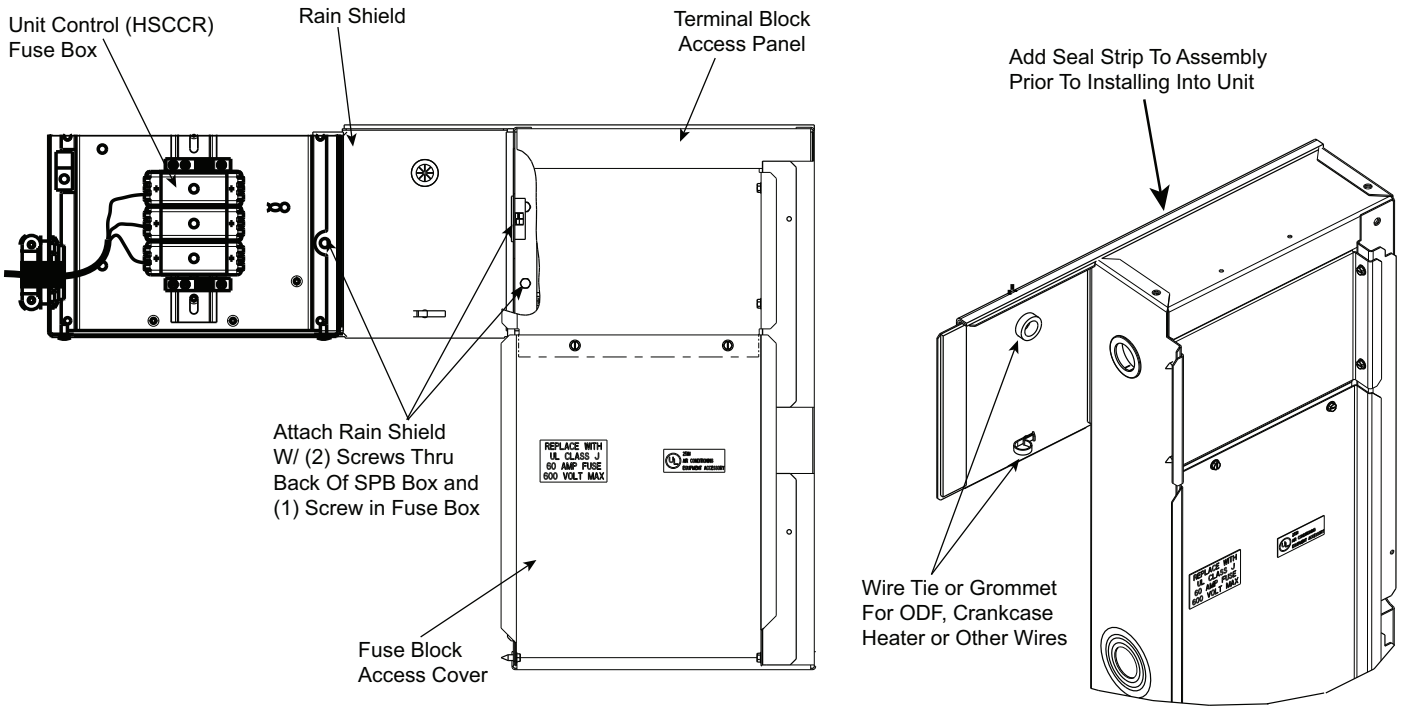


Fig. 10 — Typical Conduit Installation

Single point boxes with two or three tap conductors

Route the tap conductors (with bushing added per Step 8) into the unit main control box. Connect the power tap conductors to the designated terminals in the unit's control box for field power connections. Refer to the wiring diagram in the unit, to unit installation instructions for Field Power Wiring Connections or to Appendix A on page 20.

a. Route the first set of tap conductors (attached at upper fuse block, with bushing per Step 8) into the main control box.
b. Route the second set of tap conductors (attached at second fuse block) into the main control box.
c. Connect both sets of tap conductors to unit terminal block TB1; connect at:
BLK: terminal 11
YEL: terminal 12
BLU: terminal 13



NOTE: Due to length, some component wiring may need to be disconnected and rewired throught the rain shield grommet.

Fig. 11 — High SCCR Single Point Box Assembly — Rain Shield

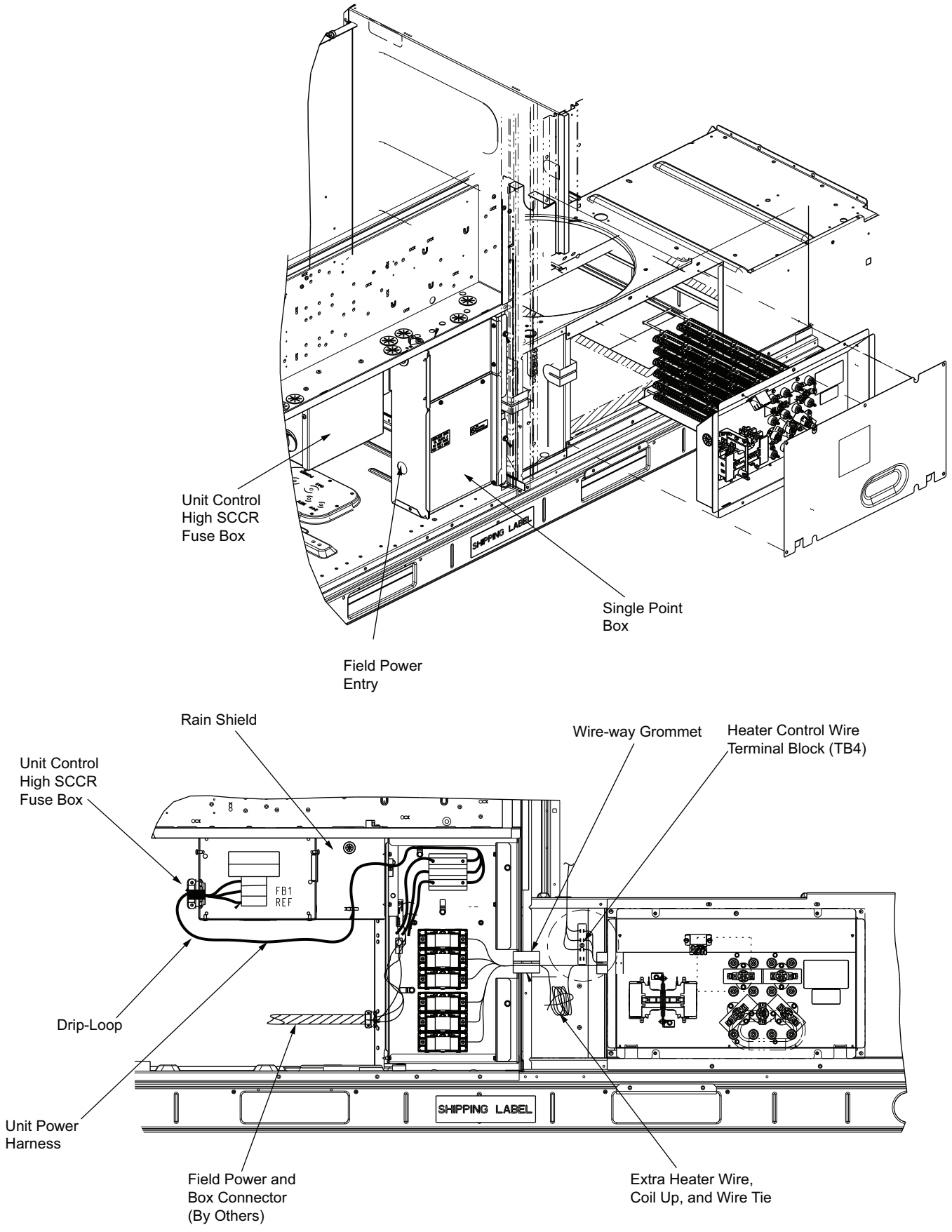


Fig. 12 — High SCCR Single Point Box Kit and Unit Power Connection

Installing Electric Heater

1. Identify heater cover to remove. (See Fig. 13.) Remove heater cover and save cover and screws.

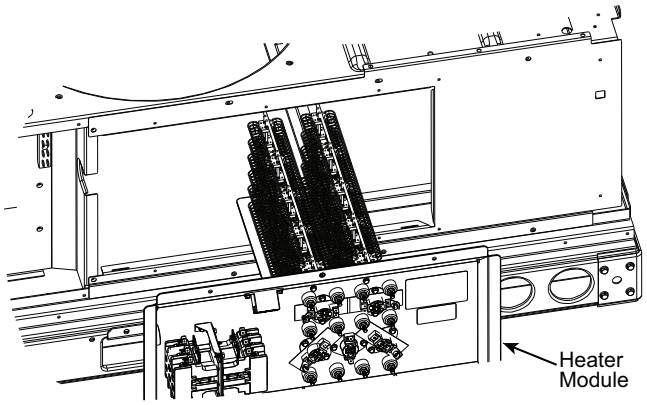


Fig. 13 — Typical Electric Heat Installation

2. Open the heater package and remove the heater module, screws, wiring label, miscellaneous parts.
3. Install the heater module in the heater support bracket opening(s). Fasten heater module to heater mounting bracket with the 4 screws saved from Step 1.
4. Single-phase heater conversion 208/230v heaters 323A00-327A00, 329A00-331A00 are factory-wired for 3-phase applications but can be converted to single-phase by changing one wire as described below.
   Three-phase applications: Skip to Step 5. For single-phase application, rewire the heater as follows (see Fig. 14):
   a. Connect RED wire provided with kit to Heater Contactor (HC1) and to L1. (See Fig. 14.)
   b. Disconnect YELLOW wire from HC1 Terminal 2 and reconnect to HC1 Terminal 3.
   c. Using the wire tie provided, fasten the RED wire to heater power wire harness near existing wire tie on heater module. This provides strain relief for the RED wire. (See Fig. 16.)
      Connect the BLACK and RED conductors in the heater power wire harness to the same L1 pole on single point box TB or fuse block. Connect the BLUE and YELLOW conductors in the heater power wire harness to the same L2 pole on single point box TB or fuse block. (See Fig. 15.)
5. Route power wires from heater module through the foam bushing in the center partition and into the single point box. (See Fig. 4.) Connect to terminal block or fuse blocks per schematics in Appendix A. See Table at beginning of Appendix A to identify the appropriate figure.
   All heaters are single bank heaters except CRHEATER327A00, 329A00-332A00, 337A00-338A00, and 341A00 which are dual bank heaters. These heaters will be wired as two heaters (i.e., 6 leads). Fusing is shown pictorially on the unit wiring schematic label. (See Fig. 19 and 20.)
   If no single point box is required for the unit and heater combination, run the heater power supply wiring through the grommet holes to the main unit control box's field power connection points or to optional factory-supplied disconnect.
6. Factory control wiring for heaters runs from unit control box to terminal block TB-4 (AC-1, AC-2, HP-1,and HP-2 units) or TB2 (AC-3 units), mounted in the heater compartment to the left of the heater module. (See Fig. 6 and 16-18.) Connect the heater control wiring at TB-4 (AC-1, AC-2, HP-1,and HP-2 units) or TB2 (AC-3 units).

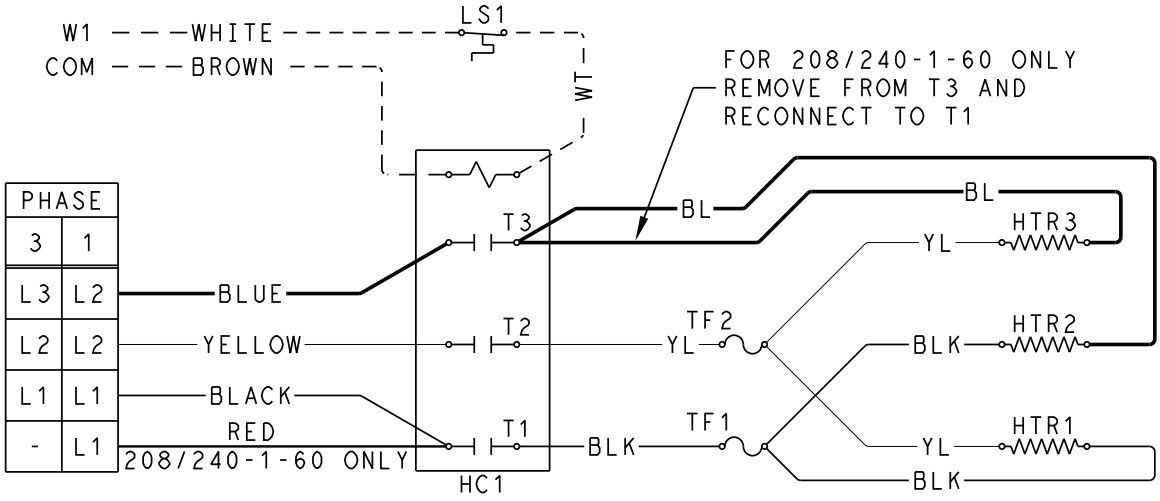


Fig. 14 — Single-Phase Heater Wiring

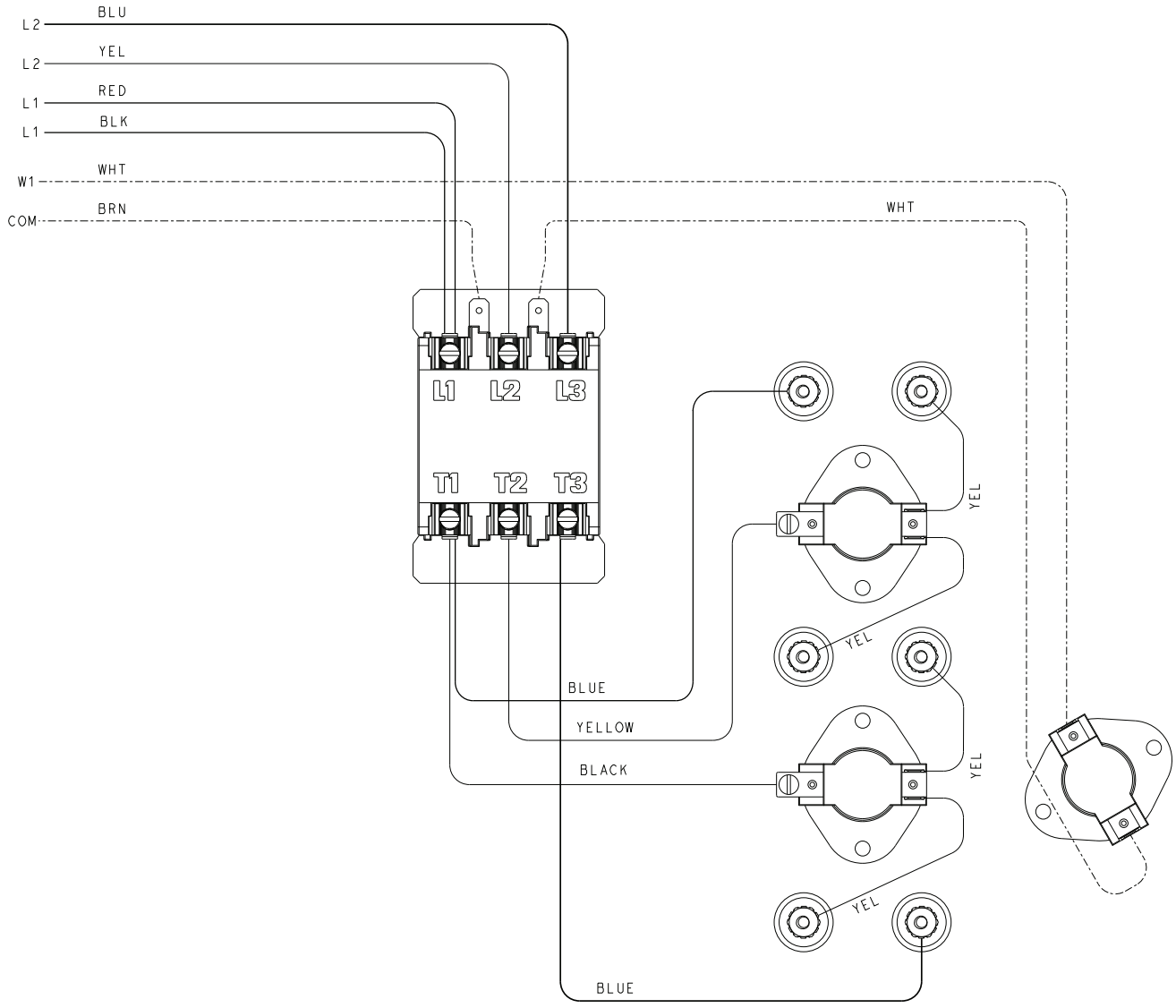


Fig. 15 — Typical Single-Phase Wiring Installed

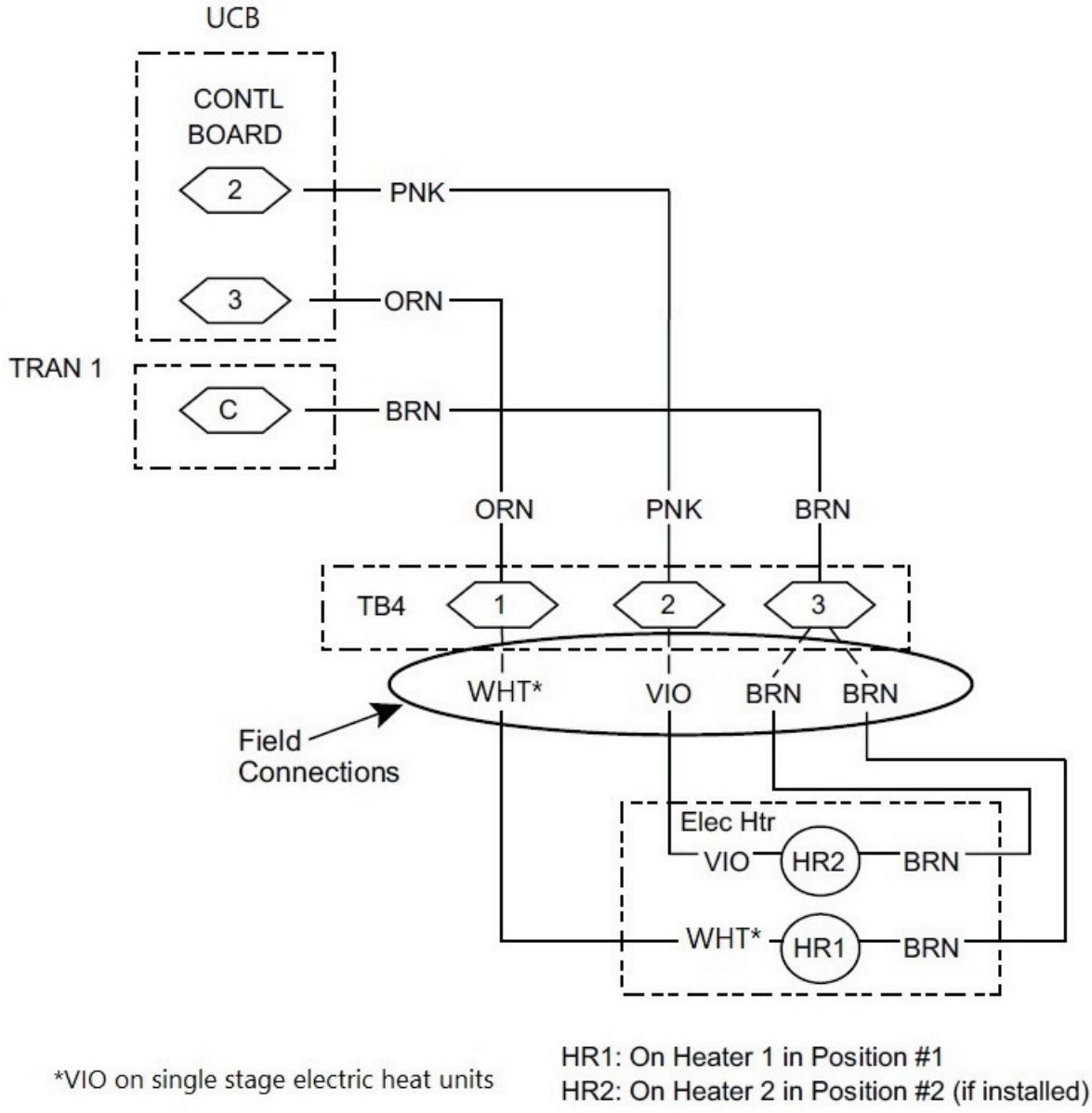


Fig. 16 — Accessory Electric Heater Control Connections (AC-1 and AC-2 Units)

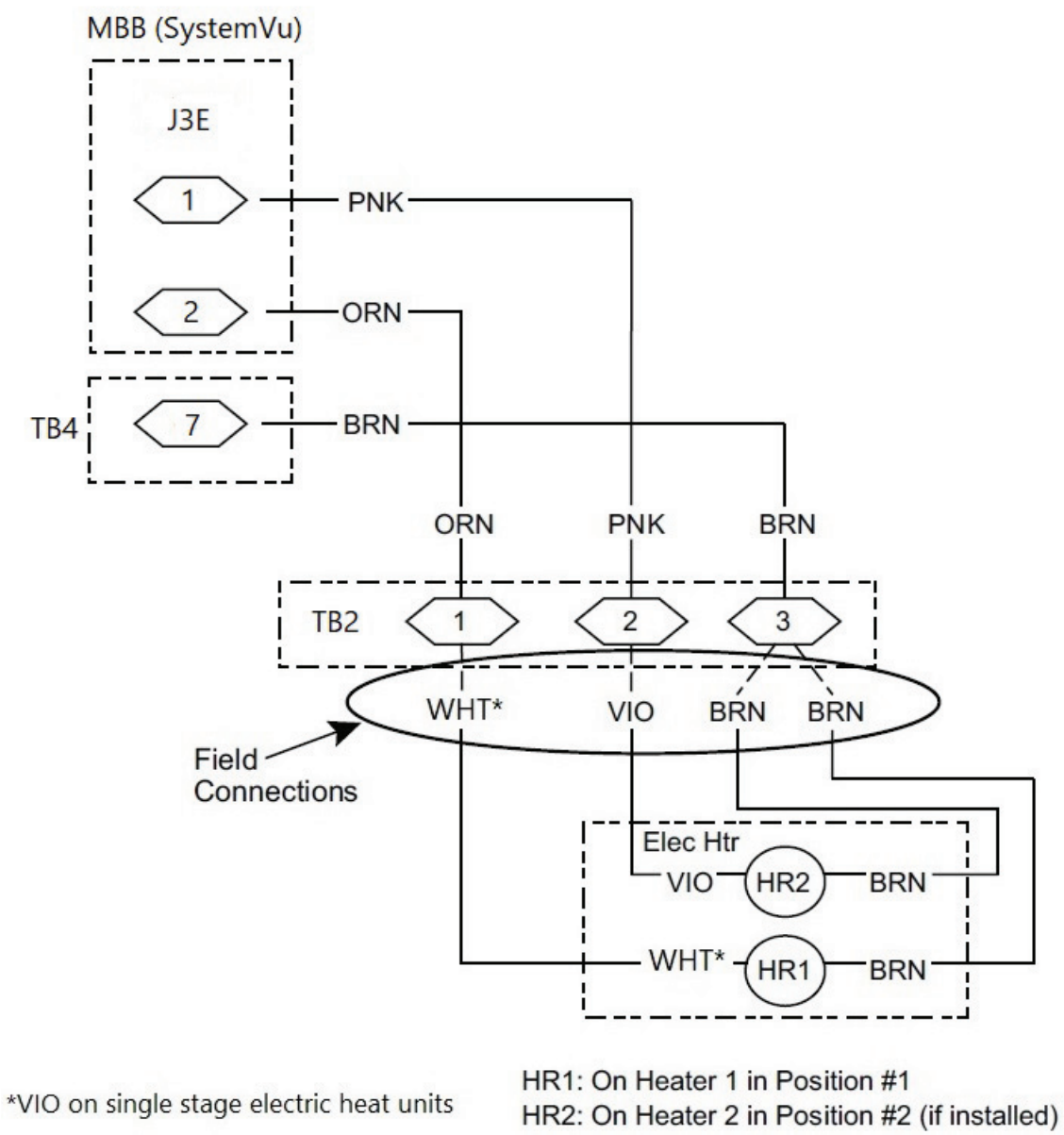


Fig. 17 — Accessory Electric Heater Control Connections (AC-3 Units)

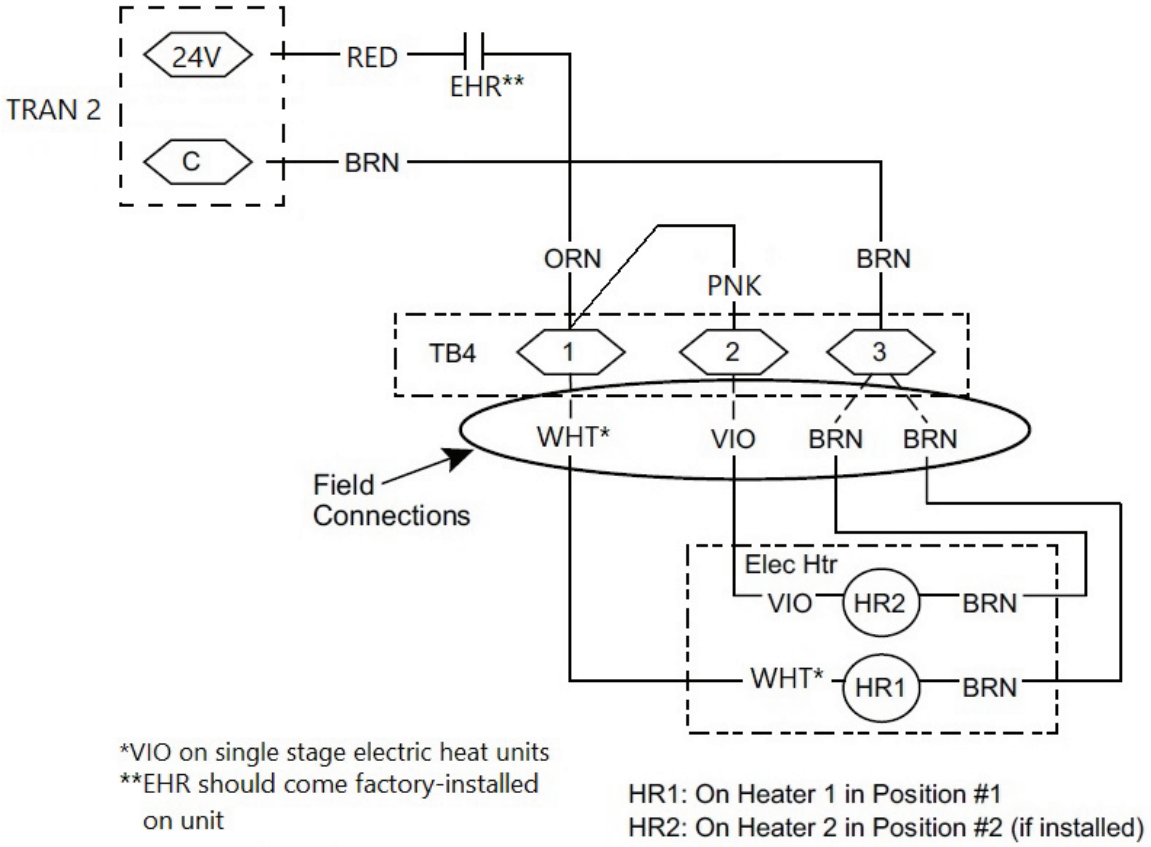


Fig. 18 — Accessory Electric Heater Control Connections (HP-1 and HP-2 Units)

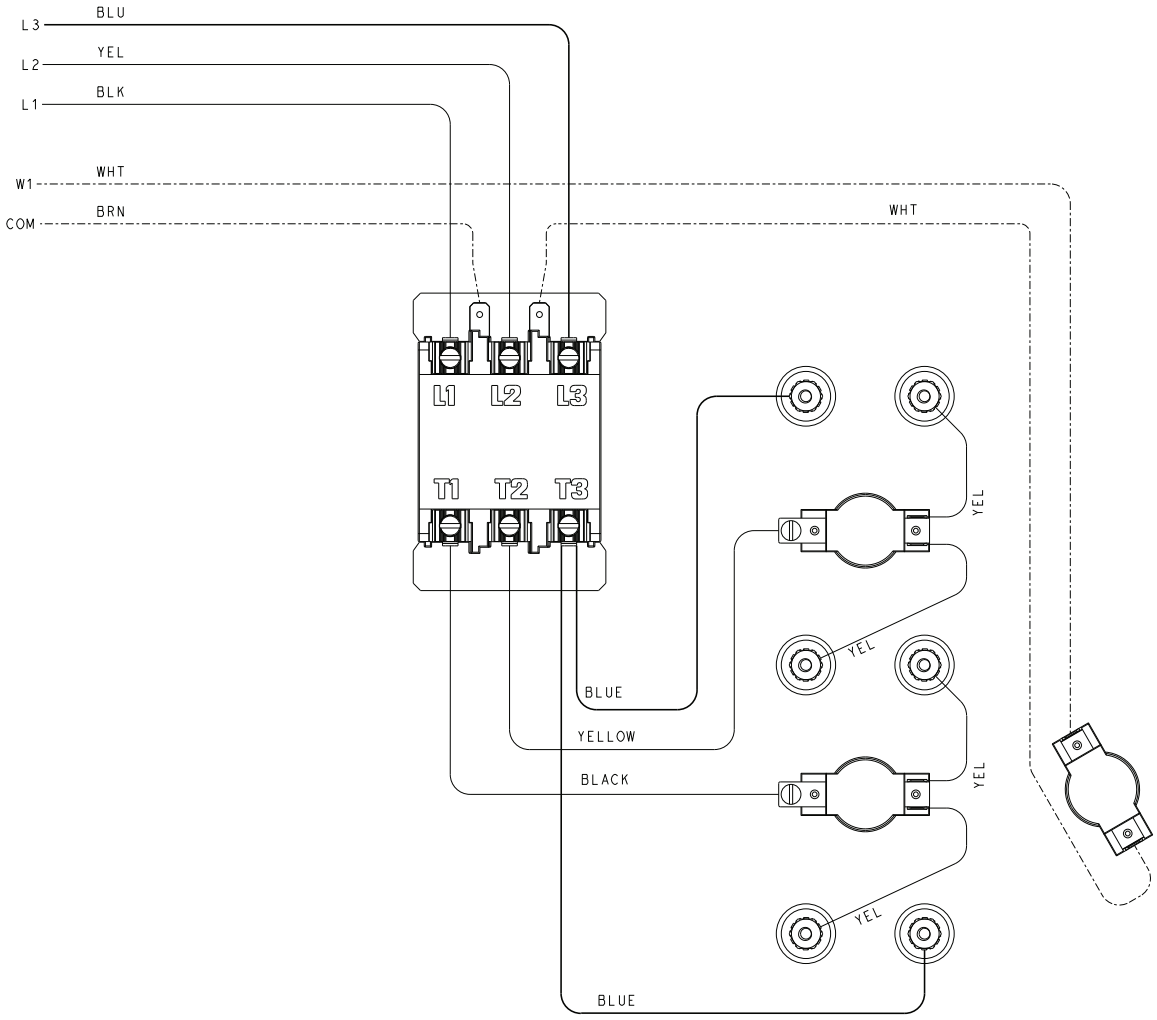


Fig. 19 — Typical 3-Phase Wiring Installed

UNIT POWER SUPPLY WIRING – ALL UNITS

NOTE: Installers of unit power supply wiring connecting to these air conditioning and heat pump units must be familiar with applicable requirements of the National Electrical Code (NFPA Standard 70), Articles 440, 430 and 424 dealing with multiple load systems incorporating refrigeration compressors, motors and electric heating equipment. Installers must also be familiar with and observe all local codes regarding unit power supply wiring.

In most instances, adding electric heaters to these units will result in an increase in unit power supply wire size compared to base unit electrical loads. These changes may also impact the size selection of the branch circuit overload protection device and the unit safety disconnect switch. Check the unit's informative data label (see Fig. 1-3 for examples) for minimum wiring sizing ampacity for full combined load (including power exhaust if also installed), for branch circuit protection size (a maximum value), and for unit minimum disconnect switch size. (See Table 1.)

All wiring that terminates at a unit-mounted terminal must be selected from wiring materials under the NEC Table 310.15(B)(16), 75°C (or higher) column only. Check specifications for external disconnect lug sizes to determine if 60°C wiring materials may be used between branch circuit origin and the disconnect switch.

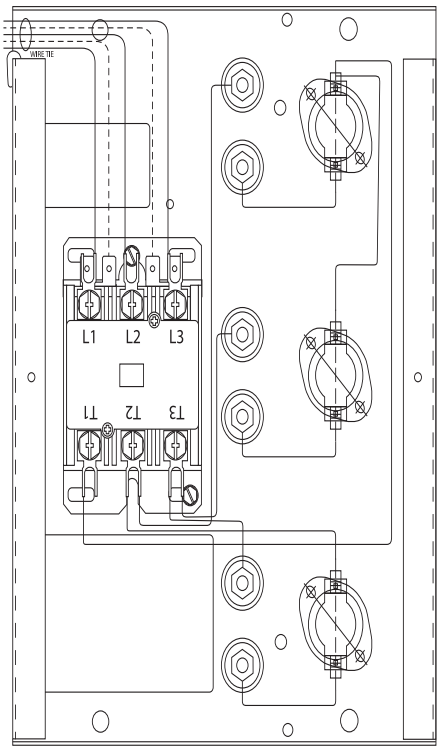


Fig. 20 — Typical 3-Phase Wiring Installed (Front View)

Table 1 — Informative Dataplate Label Designations

DEVICE	DATAPLATE DESIGNATION
Power Supply Wire	MIN CKT AMPS
Branch Circuit Protection	FUSE OR HACR BREAKER
Disconnect Switch	MINIMUM UNIT DISCONNECT

There are four different situations that an installer can encounter with these units. Three are for new unit installations (base unit has not been connected to a power supply already): Units without factory disconnect switch, units with factory disconnect switch, and units with factory HACR breaker. The fourth situation is for an existing unit already connected to a power supply and the heaters are being retrofitted. For each situation, there is usually a unit without single point box and a unit with single point box condition. Each situation is discussed below.

New Unit Without Factory-Installed Non-Fused Disconnect or HACR

INSTALLATION WITHOUT SINGLE POINT BOX

Unit power supply wires from the external (field-supplied) disconnect switch are connected to the base unit's power connection terminal lugs. Refer to unit wiring label to identify these terminals (these may be lugs on contactors or at power terminal block). The heater power wires are also connected at these terminals.

INSTALLATION WITH SINGLE POINT BOX

Remove knockouts for appropriate size conduit from unit block-off panel and single point box. Install conduit (rigid or electrometallic tubing) through conduit drip boot as shown. (See Fig. 10.) Drip boot will accept conduit sizes 3/4 in. to 1-1/2 in. The drip boot eliminates the need for watertight conduit fittings at the single point box.

Unit power supply wires from the external (field-supplied) disconnect switch are connected to the power lugs on the field connection device provided in the single point box. This device may be a terminal block or fuse block FU2's line side terminals. The heater power wires are connected to the load side terminals on the same device.

New Unit with Factory Disconnect

The optional factory-supplied disconnect has a maximum rating per Table 2.

Check this unit's dataplate for the MINIMUM DISCONNECT SWITCH value (see Fig. 1-3) and compare to the Table 2 value.

If required minimum disconnect value is LOWER than rating in Table 2:

Reconnect the factory wiring from the factory disconnect at the single point box's terminal block or fuse block FU2's line side terminals (or to main control box's line connection lugs if no single point box is installed). Remove any factory test leads connected at disconnect line side terminals; discard these wires. Connect unit power supply wires to disconnect switch line side lugs.

If required minimum disconnect value is HIGHER than rating in Table 2:

FOR UNIT WITH 60-A, 80-A OR 100-A DISCONNECT

Remove the factory-installed non-fused disconnect switch assembly and wiring. Install a field-supplied disconnect switch sized per unit marking. Complete connections per instructions above under "New Unit Without Factory-Installed Non-Fused Disconnect or HACR."

Table 2 — Optional Factory Installed Disconnect Amp Ratings

UNIT GROUP	UNIT SIZES	VOLTS	DISCONNECT SIZE AMPS
AC-1	04-07 036-072	208/230	80
		460, 575	60
AC-2	04-06 036-060	208/230	80
		460, 575	60
AC-3	04-06 036-060	208/230	80
		460, 575	60
HP-1	04-07 036-072	208/230	80
		460, 575	60
HP-2	04-06 036-060	208/230	80
		460, 575	60

LEGEND

AC — Cooling Only (Air Conditioning)
HP — Heat Pump
1 — Standard Efficiency
2 — High Efficiency
3 — Ultra High Efficiency

New Unit with Factory HACR (50GC,GE,JC Only)

The amp rating of the HACR factory-installed option is based on the size, voltage, indoor motor and other electrical options of the unit as shipped from the factory.

When field-installed accessory electric heaters are added to the unit, the HACR may no longer be of the proper amp rating and therefore will need to be removed from the unit.

Check this unit's dataplate for the FUSE OR HACR BREAKER value (see Fig. 1-3) and compare to the factory HACR breaker rating value.

If marked HACR value on unit dataplate is UNCHANGED from rating unit-mounted HACR

Reconnect the factory wiring from the factory HACR at the single point box's terminal block or fuse block FU2's line side terminals (or to main control box's line connection lugs if no single point box is installed). Remove any factory test leads connected at HACR line side terminals; discard these wires. Connect unit power supply wires to HACR line side lugs.

If marked HACR value on unit dataplate is GREATER than rating on unit-mounted HACR

Remove the factory HACR switch assembly and wiring. Install a field-supplied fused or HACR disconnect switch sized per unit marking. Complete connections per instructions above under "New Unit Without Factory Disconnect or HACR."

Existing Unit

An existing unit will usually have been installed following the values marked on the base unit's dataplate for wire sizing, branch circuit over-current protection and disconnect switch rating. When electric heaters are added to air conditioning (cooling) units, these values may be changed; when electric heaters are added to heat pump units, one or more of these values will be changed.

Check the installed unit's field power wires for conductor size and determine conductor rated ampacity per NEC Table 310.15(B)(16). Compare this value to the MIN CKT AMPS value on the unit dataplate for base unit plus electric heaters (plus power exhaust if connected). If the MIN CKT AMPS value is greater than the rated ampacity of the power supply wires, the unit power supply conductors must be replaced.

NOTE: Supply wiring must comply with NEC (National Electrical Code) and all local requirements.

Check the installed unit's branch circuit over-current protection device (fuse or HACR breaker) for rating in amps. Compare this

value to the FUSE OR HACR BREAKER value on the unit dataplate for base unit plus electric heaters (plus power exhaust if connected). If the FUSE OR HACR BREAKER value is greater than the rated ampacity of the installed device, the unit branch circuit over-current protection device must be replaced. Check the installed unit's disconnect switch for rating in amps. Compare this value to MINIMUM UNIT DISCONNECT value on the unit dataplate for base unit plus electric heaters (plus power exhaust if connected). If the MINIMUM UNIT DISCONNECT value is greater than the rated ampacity of the installed disconnect switch, the unit disconnect switch must be replaced.

To complete the unit power wiring at the Single Point Box or base unit terminals, follow the appropriate directions under "New Unit" discussions above.

Complete Unit Installation

1. Mark the appropriate block on the unit nameplate for the accessory heater kW installed. NOTE: The required MIN CKT AMPS value for this unit-heater combination. Ensure the field power conductors are sized to handle this ampacity.
2. Locate the heater cover. For all heaters, the heater cover is the plate removed from the heater mounting bracket in Step 5 on page 8 (General Installation Sequence).
3. Place adhesive-backed wiring label on flanged side of heater cover.
4. Fasten heater cover to heater module with 2 screws provided with heater. Flanges of cover must face out. (See Fig. 21.)
5. Set manual reset limit switch (on supply fan housing) by depressing button located between the terminals on the switch. (See Fig. 6.)
6. Close single point box cover and secure with one screw.
7. Replace control box cover, using remainder of screws saved from page 8, Step 4 of Installing Single Point Box sections.
8. Run conduit through (rigid or EMT) the conduit drip boot in the rain shield bracket to the single point box. Provide an appropriate fitting to connect the conduit to the single point box wall and ground appropriately. (See Fig. 22.) Drip boot eliminates the need for watertight conduit fittings at the single point box.
9. Run wire through conduit connecting outside power to the designated terminals at the top of the single point box. Ground appropriately. (See Fig. 23.)
10. Replace indoor and outdoor panels with screws saved from Step 2 of Installing Single Point Box section on page 8. Place adhesive-backed Max. Air/Max. Static label on external panel that covers heaters. (See Fig. 5 and 24.)
11. If all other work on the unit is done, reapply unit power per lockout/tag-out procedures.

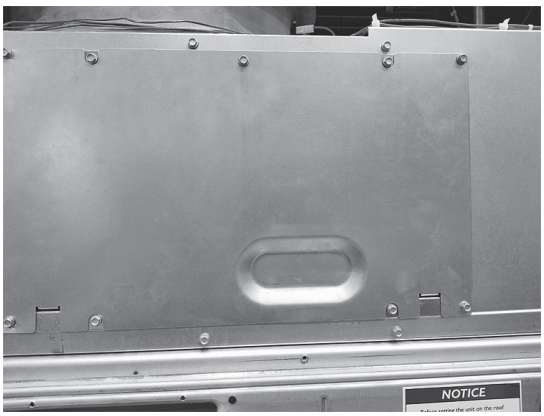


Fig. 21 — Heater Cover

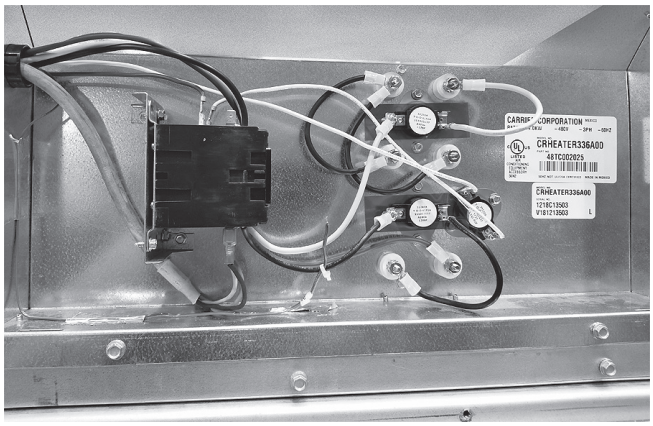


Fig. 22 — Heater Wiring

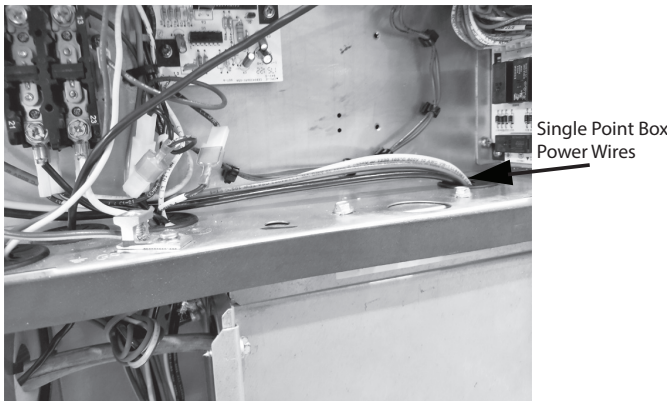


Fig. 23 — Typical Single Point Box Power Wiring

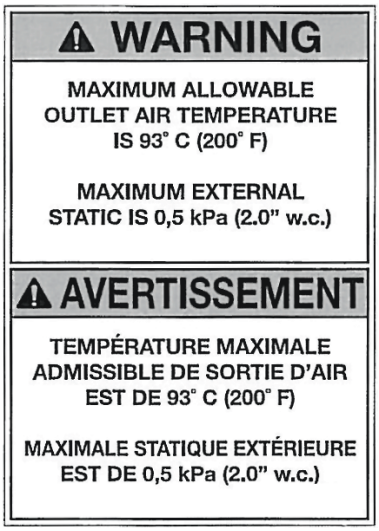


Fig. 24 — Max Air Temp/Max Ext. Static

Appendix A — AC-1, AC-2, AC-3, HP-1, HP-2 Cooling/Heat Pump Applications (STD SCCR)

SPB CRSINGLExxxA00	AC-1 Units	AC-2 Units	AC-3 Units	HP-1 Units	HP-2 Units
	04-07 036-072	04-06 036-060	04-06	04-07 036-072	04-06 036-060
1-Phase (see page 9 for conversion instructions)					
NONE	Fig. B	Fig. B	—	Fig. B	Fig. B
037	Fig. A	Fig. A	—	Fig. A	Fig. A
040	Fig. C	Fig. C	—	Fig. C	Fig. C
041	—	—	—	Fig. D	Fig. D
3-Phase					
NONE	Fig. E	Fig. E	Fig. E	Fig. E	Fig. E
037	Fig. F	Fig. F	Fig. F	Fig. F	Fig. F
038	Fig. G	Fig. G	Fig. G	Fig. G	Fig. G
039	—	—	—	Fig. H	Fig. H

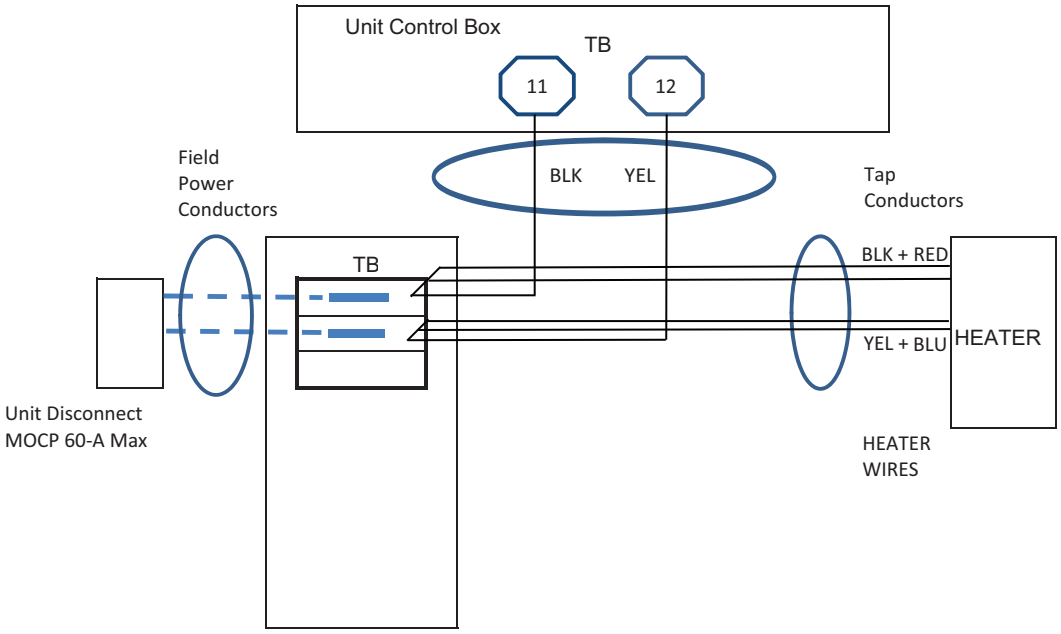


Fig. A — AC 1-Phase Single Point Box CRSINGLE037A00 (AC-1, Sizes 04-06 / 036-060; AC-2, Sizes 04-06 /036-060; HP-1, Sizes 05-06 / 036-048; HP-2, Sizes 05-06 / 036-048)

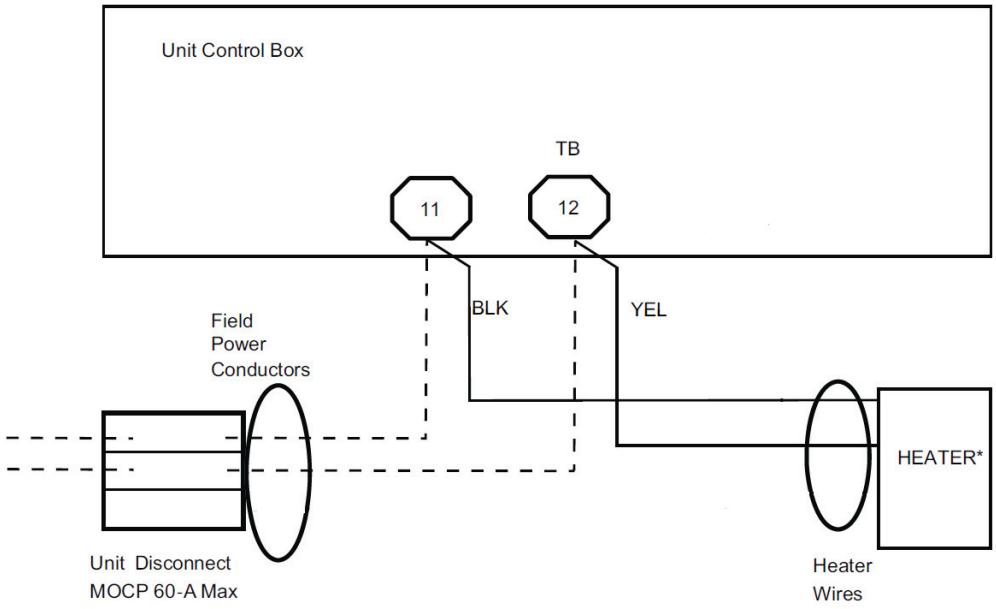


Fig. B — AC/HP No Single Point Box, 1-Phase (AC-1, Sizes 04-07 / 036-072; AC-2, Sizes 04-06 /036-060; HP-1, Sizes 04-06 / 036-060; HP-2, Sizes 04-06 / 036-060)

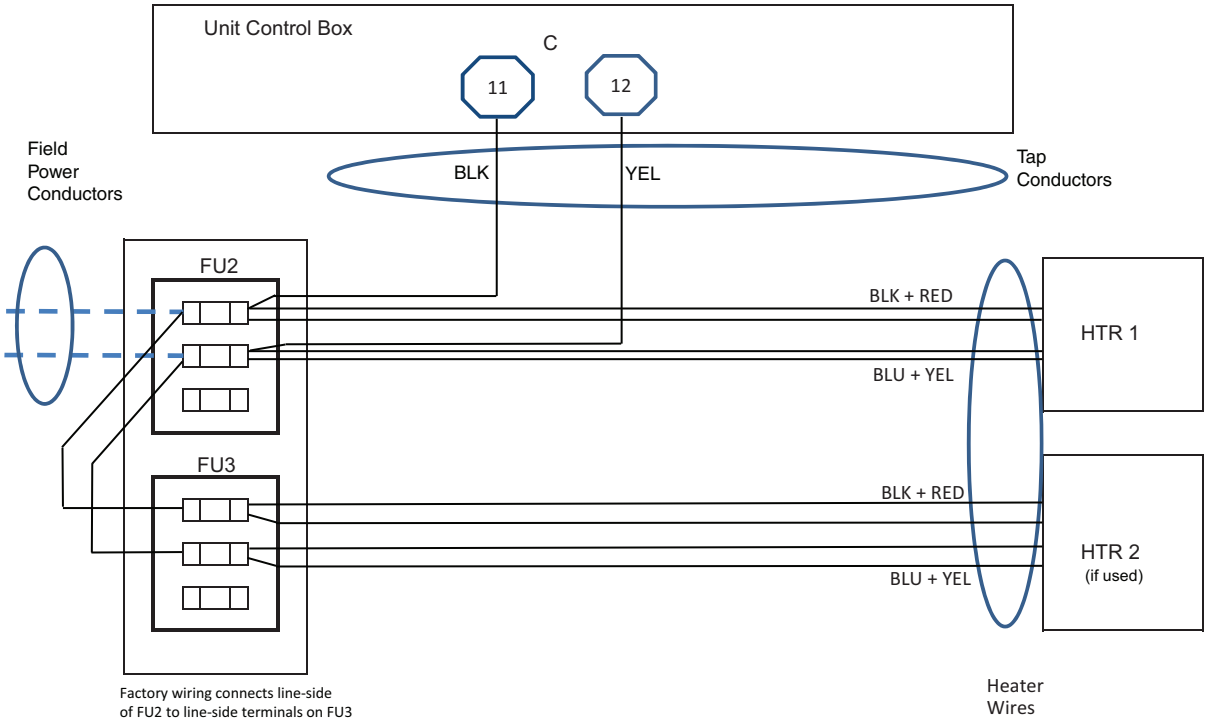


Fig. C — AC/HP 1-Phase Single Point Box CRSINGLE040A00 (AC-1, Sizes 04-06/036-060; AC-2, Sizes 04-06/036-060; HP-1, Sizes 04-06/036-060; HP-2 Sizes 04-06/036-060)

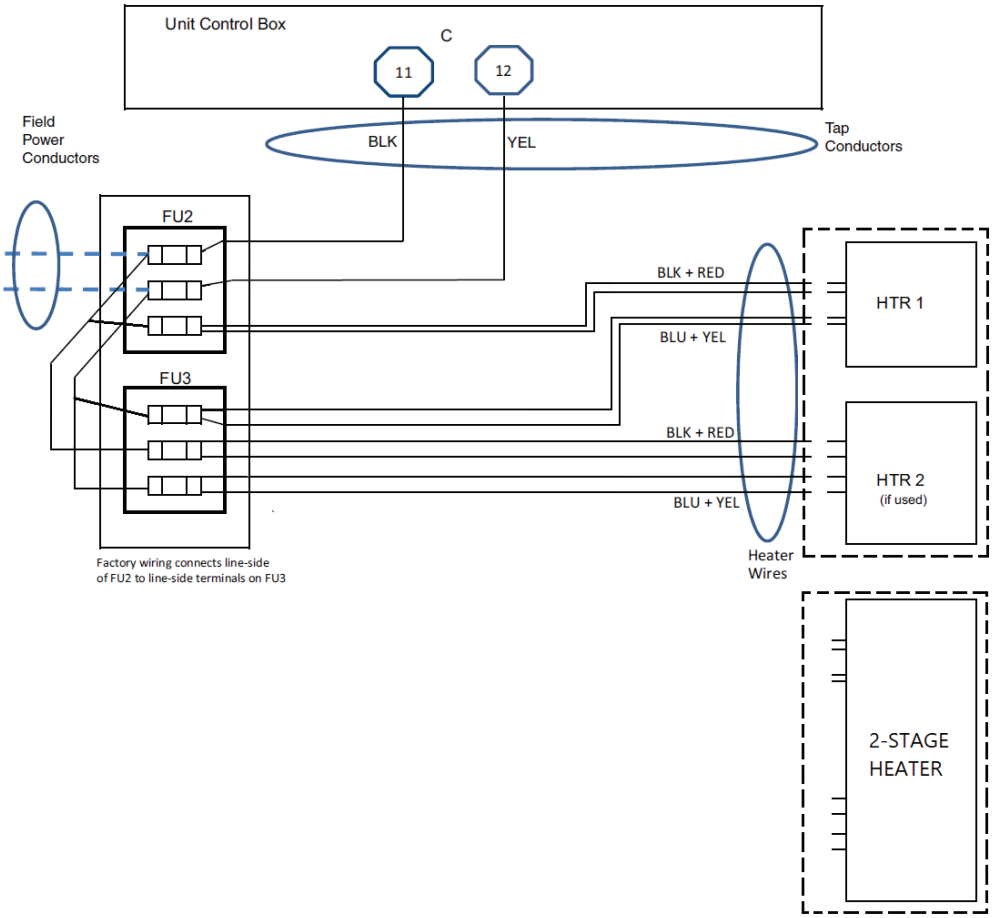
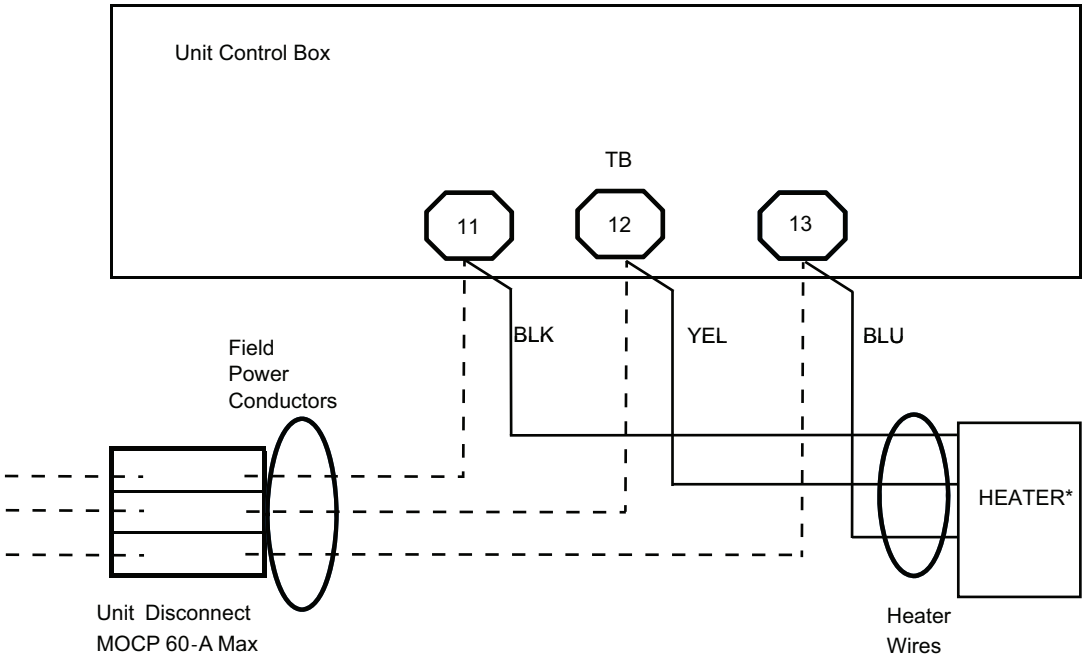


Fig. D — HP 1-Phase Single Point Box CRSINGLE041A00 (HP-1, Sizes 04-06/036-060; HP-2, Sizes 04-06/036-060)

Appendix A — AC-1, AC-2, AC-3, HP-1, HP-2 Cooling/Heat Pump Applications (STD SCCR) (cont)



*Heaters with the following part numbers can be used:
101A, 102A, 103B, 104B, 106A, 107A, 108A, 109A, 288A, 289A, 291A, 292A, 293A, 297A, 378A, 379A

Fig. E — AC/HP 3-Phase No Single Point Box (AC-1, Sizes 04-07/036-072; AC-2, Sizes 04-06/036-060; AC-3, Sizes 04-06; HP-1, Sizes 04-07/036-072; HP-2, Sizes 04-06/036-060)

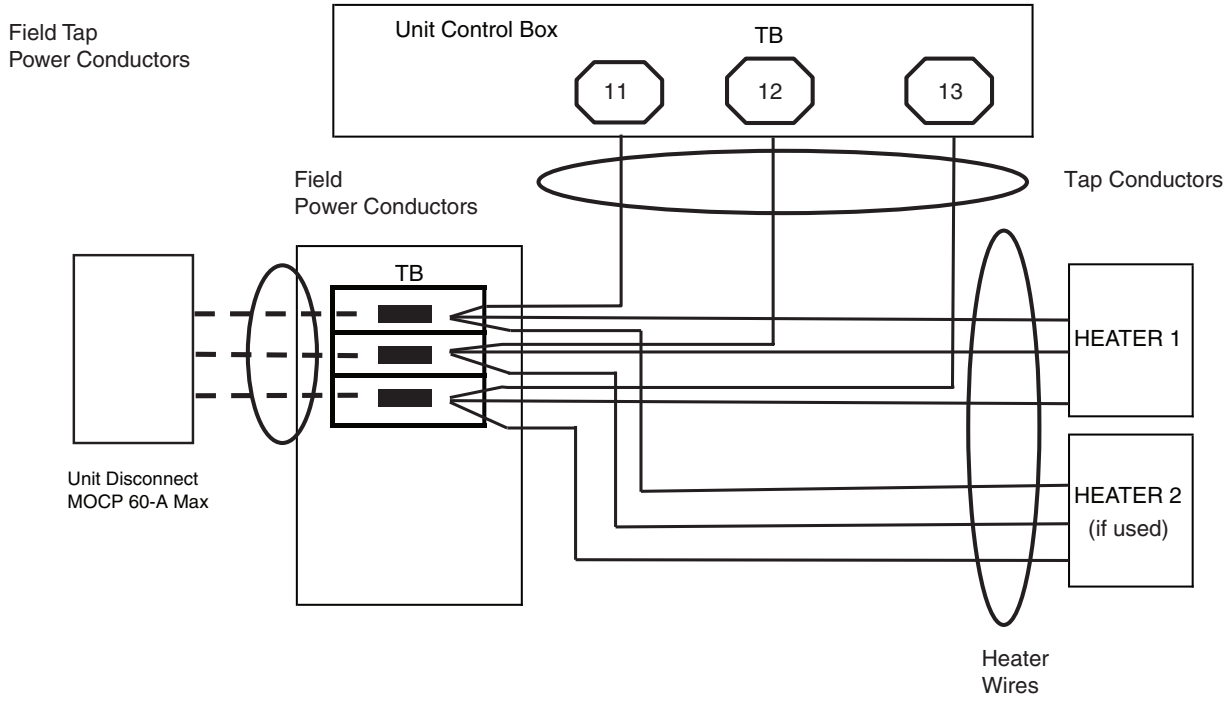


Fig. F — AC/HP 3-Phase Single Point Box CRSINGLE037A00 (AC-1, Sizes 04-07/036-072; AC-2, Sizes 04-06/036-060; AC-3, Sizes 04-06; HP-1, Sizes 04-07/036-072; HP-2, Sizes 04-06/036-060)

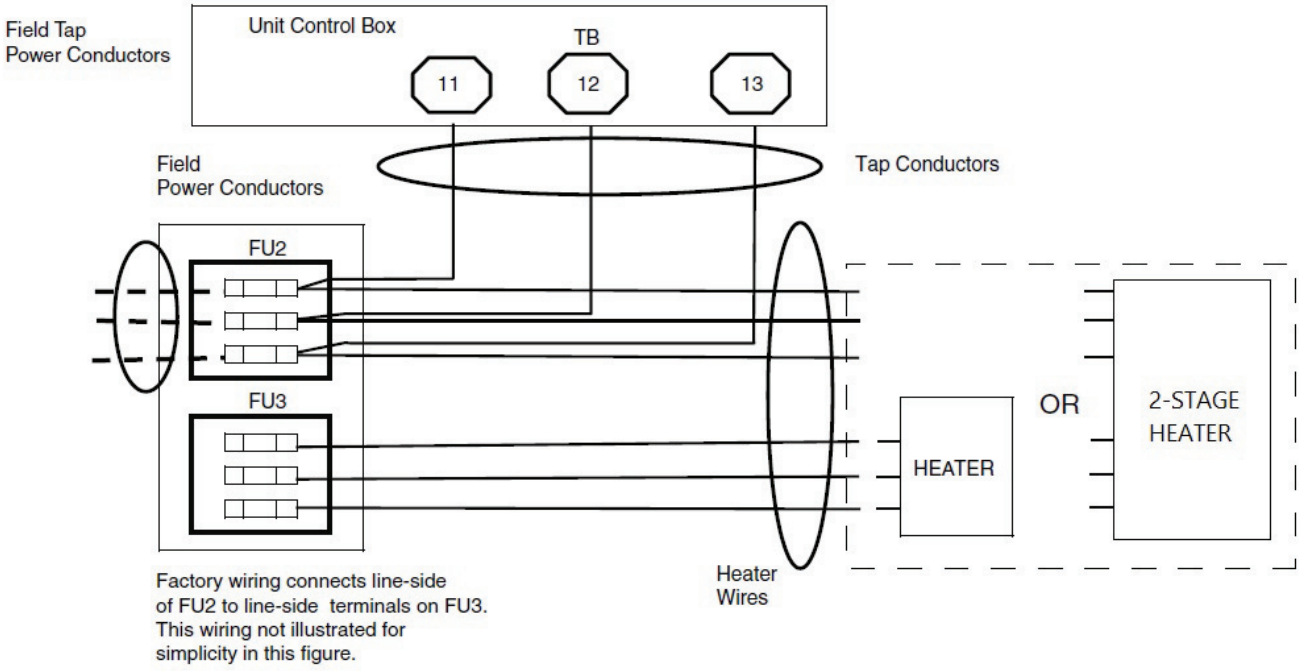


Fig. G — AC/HP 3-Phase Single Point Box CRSINGLE038A00 (AC-1, Sizes 04-07/036-072; AC-2, Sizes 04-06/036-060; AC-3 Sizes 04-06; HP-1 Sizes 04-07/036-072; HP-2 Sizes 04-06/036-060)

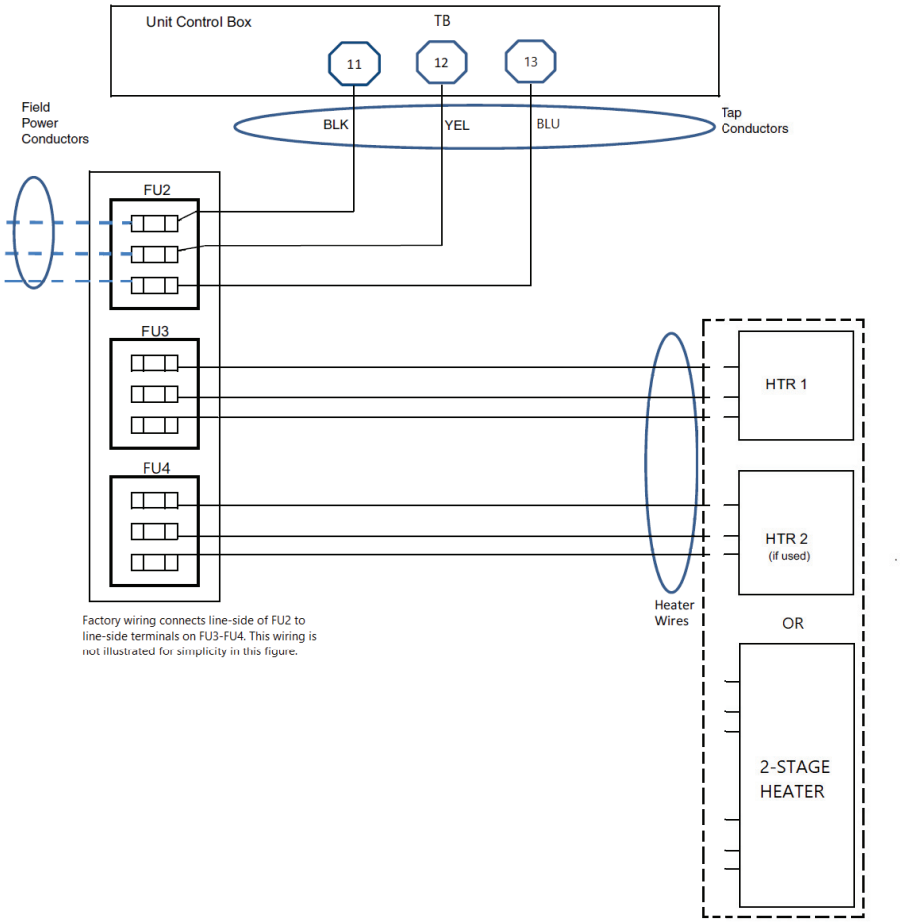


Fig. H — HP 3-Phase Single Point Box CRSINGLE39A00 (HP-1 Sizes 05-07/048-072; HP-2 Sizes 05-06/048-060)

Appendix B — Electric Heater Data

NOTE: ELECTRIC HEATER DATA (CRHEATERnnna00)

Table A — AC-1, AC-2, AC-3

HEATER MODEL NUMBER	v/Ph/Hz	kW	NUMBER OF STAGES	USED ON		
				AC-1	AC-2	AC-3
323A	208/230-1-60	4.4	1	04, 05 036, 048	04, 05 036, 048	—
324A		6.5	1	04, 06 036, 060	04 036	—
325A		8.7	1	04, 05, 06 036, 048,060	04, 05, 06 036, 048,060	—
326A		10.5	1	04 036	04 036	—
327A		13.0	2	04, 05, 06 036, 048,060	04, 05, 06 036, 048,060	—
329A		17.4	2	05, 06 048, 060	05, 06 048, 060	—
330A		19.2	2	05, 06 048, 060	05 048	—
331A		21.0	2	05, 06 048, 060	05, 06 048, 060	—
323A	208/230-3-60	4.4	1	04 036	04, 05 036, 048	04
324A		6.5	1	04-07 036-072	04, 05, 06 036, 048,060	04-06
325A		8.7	1	04, 05 036, 048	04, 05 036, 048	04,05
326A		10.5	1	04, 06, 07 036, 060, 072	04, 06 036, 060	04,06
328A		16.0	1	04-07 036-072	04, 05, 06 036, 048,060	04-06
330A		19.2	2	05 downshot 048 downshot	05 downshot 048 downshot	05 downshot
331A		21.0	2	05, 06, 07 (except 05 downshot) 048,060,072 (except 048 downshot)	05,06 (except 05 downshot) 048,060 (except 048 downshot)	05,06 (except 05 downshot)
332A		24.7	2	06, 07 060, 072	06 060	06
333A	460-3-60	6.0	1	04-07 036-072	04-06 036-060	04-06
334A		8.8	1	04 036	04 036	04
335A		11.5	1	04-07 036-072	04-06 036-060	04-06
336A		14.0	1	04-07 036-072	04-06 036-060	04-06
337A		21.5	2	05-07 048-072	05-06 048-060	05,06
338A		24.0	2	06, 07 060, 072	06 060	06
339A	575-3-60	10.0	1	04, 05 036, 048	04, 05 036, 048	04,05
340A		15.0	1	04-07 036-072	04-06 036-060	04-06
341A		25.0	2	06, 07 060, 072	06 060	06

Appendix B — Electric Heater Data (cont)

Table B — HP-1, HP-2

HEATER MODEL NUMBER	v/Ph/Hz	kW	NUMBER OF STAGES	USED ON	
				HP-1	HP-2
323A	208/230-1-60	4.4	1	04,05 036,048	04,05 036,048
324A		6.5	1	04,06 036,060	04,06 036,060
325A		8.7	1	04,05,06 036,048,060	04,05,06 036,048,060
326A		10.5	1	04 036	04 036
327A		13.0	2	04,05,06 036,048,060	04,05,06 036,048,060
329A		17.4	2	05,06 048,060	05,06 048,060
330A		19.2	2	05 048	05 048
331A		21.0	2	05,06 048,060	05,06 048,060
323A	208/230-3-60	4.4	1	04,05 036,048	04,05 036,048
324A		6.5	1	04-07 036-072	04,05,06 036,048,060
325A		8.7	1	04,05 036,048	04,05 036,048
326A		10.5	1	04,06,07 036,060,072	04,06 036,060
328A		16.0	1	04-07 036-072	04,05,06 036,048,060
330A		19.2	2	05 downshot 048 downshot	05 downshot 048 downshot
331A		21.0	2	05,06,07 (except 05 downshot) 048,06,072 (except 48 downshot)	06 060
332A		24.7	2	06,07 060,072	06 060
333A	460-3-60	6.0	1	04-07 036-072	04,05,06 036,048,060
334A		8.8	1	04 036	04 036
335A		11.5	1	04-07 036-072	04,05,06 036,048,060
336A		14.0	1	04-07 036-072	04,05,06 036,048,060
337A		21.5	2	05,06,07 048,060,072	05,06 048,060
338A		24.0	2	06,07 060,072	06 060
339A	575-3-60	10.0	1	04,05 036,048	04,05 036,048
340A		15.0	1	04-07 036-072	04,05,06 036,048,060
341A		25.0	2	06,07 060,072	06 060

Appendix C — Cooling/Heating Applications — High SCCR Only AC-1, AC-2 Cooling Applications and HP-1, HP-2 Heat Pump Applications (SPB CRSINGLEnnnA00)

SPB "CRSINGLEnnnA00"	AC-1 Units	AC-2 Units	HP-1 Units	HP-2 Units
	ch1,2	ch1,2	ch1,2	ch1,2
	04-07 036-072	04-06 036-060	04-07 036-072	04-06 036-060
1-PHASE (SEE PAGE 12 FOR CONVERSION INSTRUCTION)				
060 (1tb+1fu)	Fig. I	Fig. I	Fig. I	Fig. I
061 (1tb +2fu)	Fig. J	Fig. J	Fig. J	Fig. J
3 PHASE				
062 (1tb +1fu)	Fig. K	Fig. K	Fig. K	Fig. K
063 (1tb +2fu)	Fig. L	Fig. L	Fig. L	Fig. L

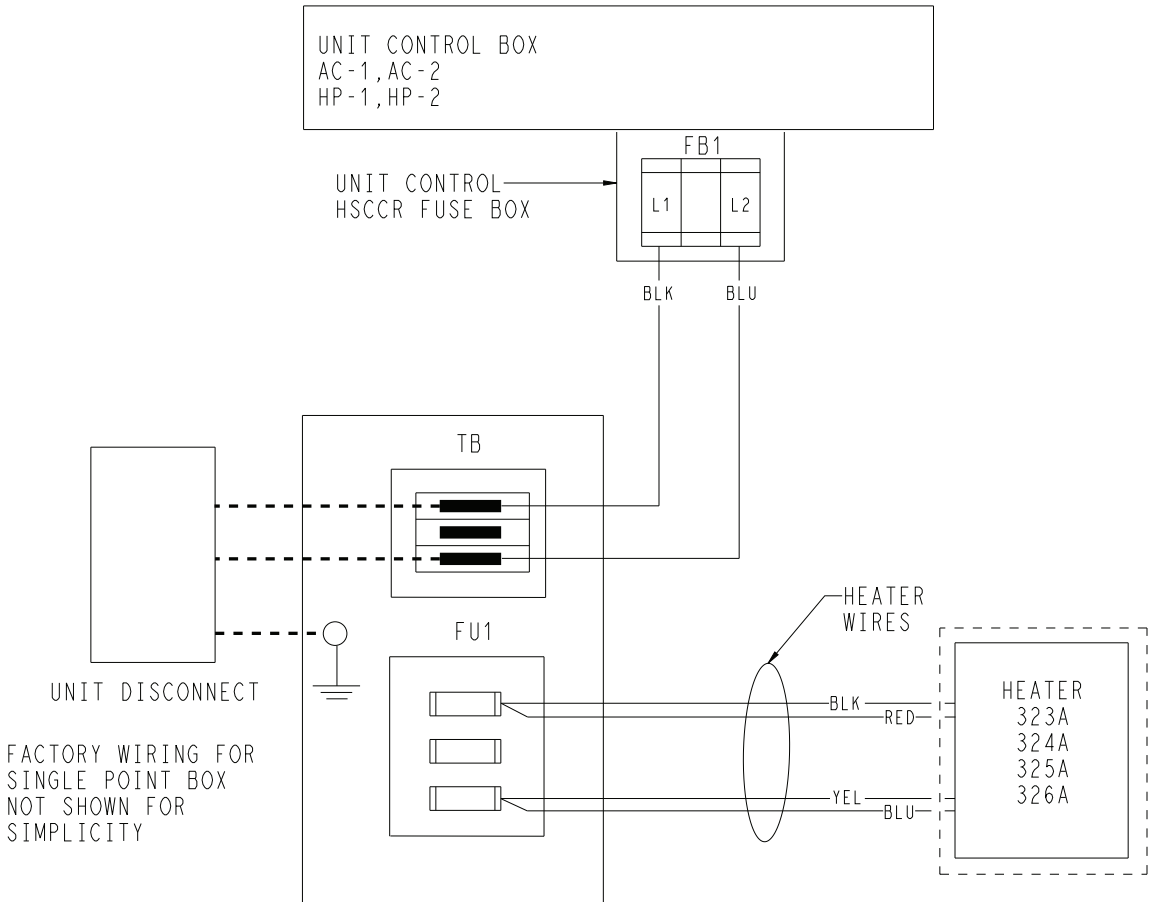


Fig. I — Single Phase Only - CRSINGLE060A00 (AC-1, Sizes 04-07/036-072; AC-2 Sizes 04-06/036-060; HP-1 Sizes 04-07/036-072; HP-2, Sizes 04-06/036-60)

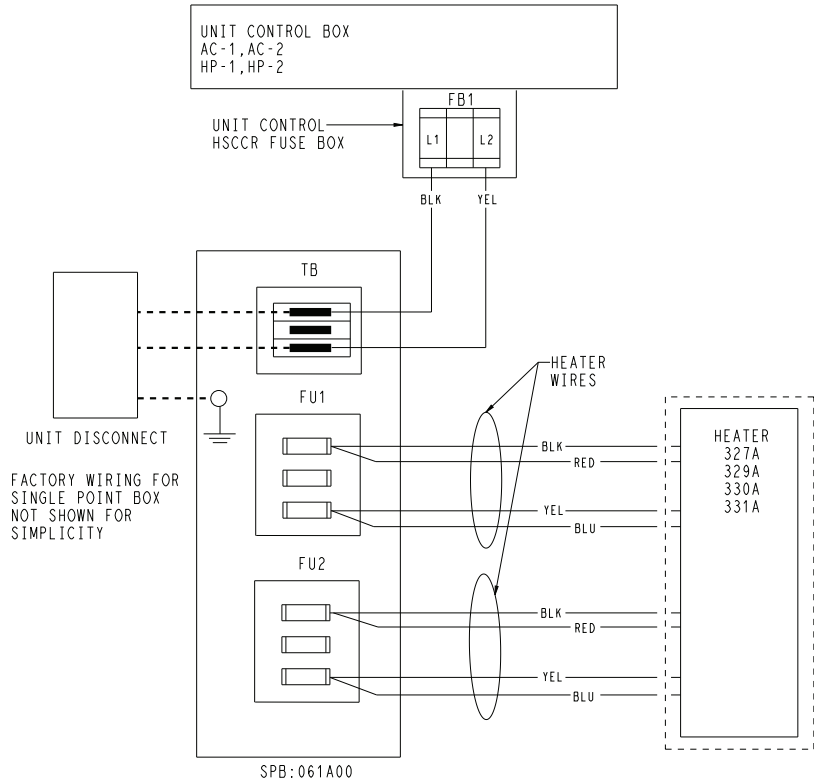


Fig. J — Single Phase Only - CRSINGLE061A00

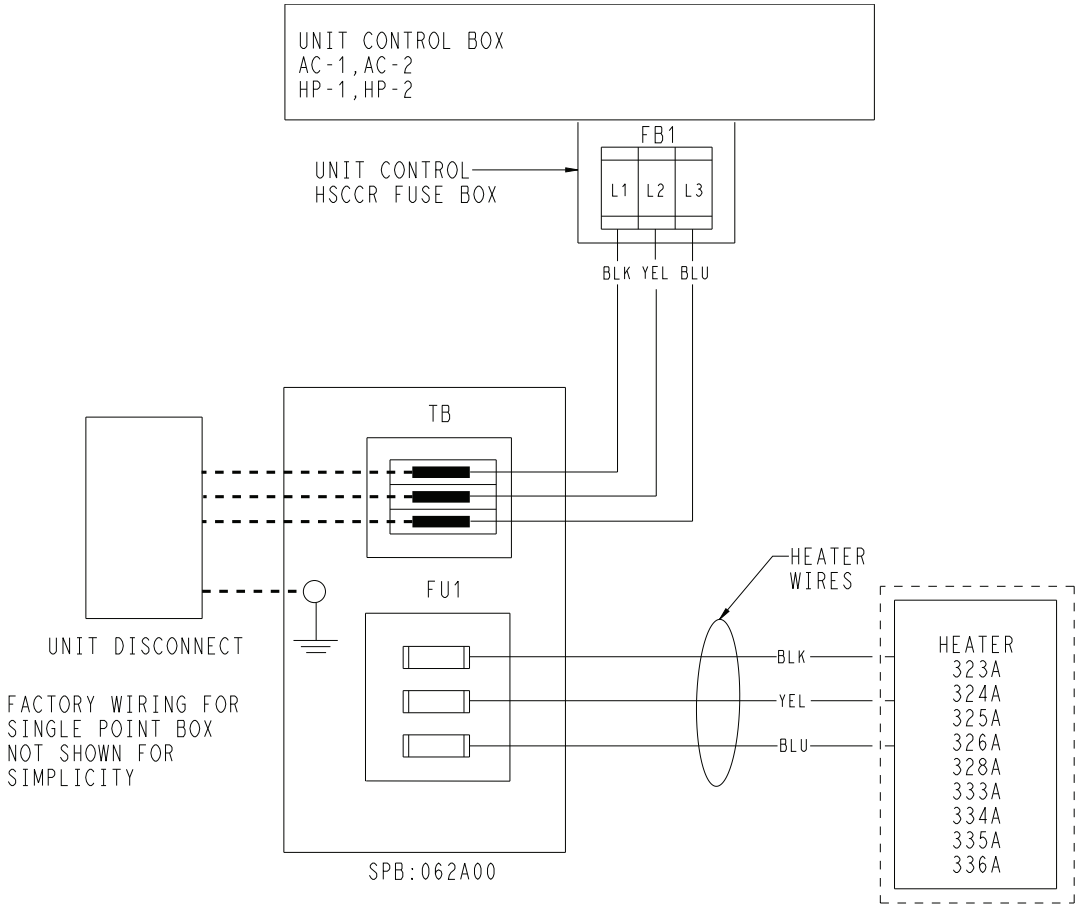


Fig. K — 3-Phase - CRSINGLE062A00 (AC-1, Sizes 04-07/036-072; AC-2, Sizes 04-06/036-060; HP-1, Sizes 04-06/036-072; HP-2, Sizes 04-06/036-060)

Appendix C — Cooling/Heating Applications — High SCCR Only AC-1, AC-2 Cooling Applications and HP-1, HP-2 Heat Pump Applications (SPB CRSINGLEnnnA00) (cont)

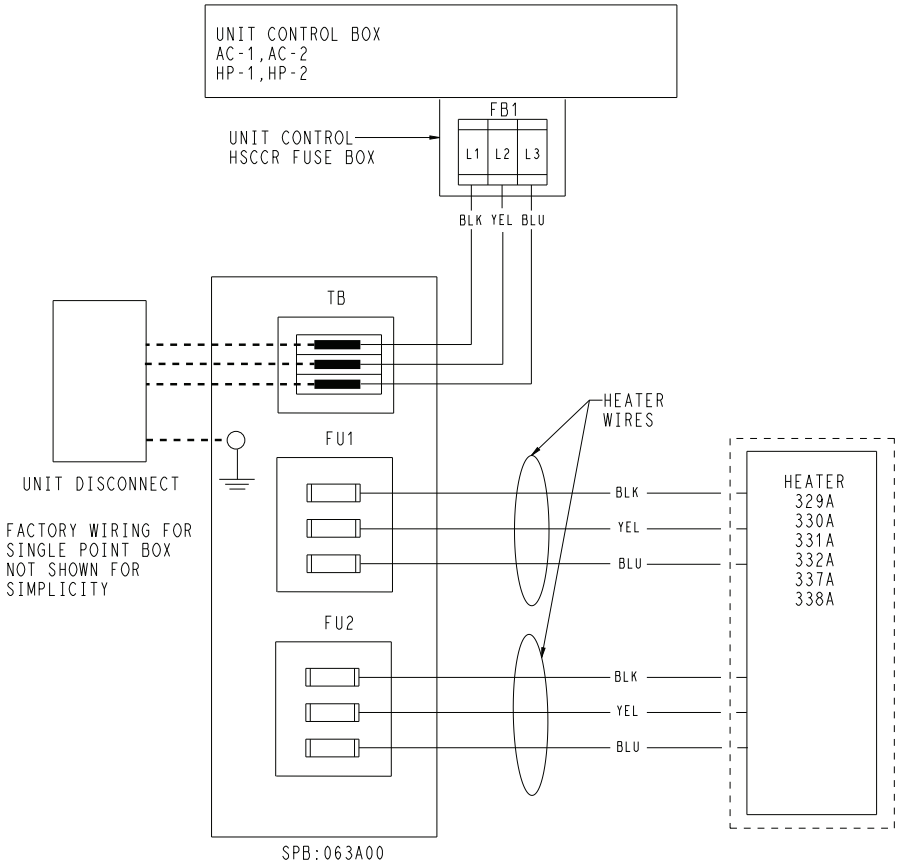


Fig. L — 3-Phase - CRSINGLE063A00 (AC-1, Sizes 04-07/036-072;- AC-2, Sizes 04-06/036-060; HP-1, Sizes 04-07/036-072; HP-2, Sizes 04-06/036-060)