

CRHEATER270A00- CRHEATER287A00

ELECTRIC HEATER ACCESSORY SINGLE PACKAGE ROOFTOP UNITS 15 to 27.5 TONS

Installation Instructions

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IMPORTANT: Read these instructions completely before attempting to install the accessory electric heater.

The electric heater accessory is used on the following units:

MODEL			CAPACITY (TONS)
50TC	558J	—	15–27.5
50HC	551J	—	15–25
RAS	RAH	—	15–25
50TCQ	548J	RHS	15–20

SAFETY CONSIDERATIONS

Installation and servicing of air-conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install, repair, or service air-conditioning equipment.

Untrained personnel can perform the basic maintenance functions. All other operations should be performed by trained service personnel. When working on air-conditioning equipment, observe precautions in the literature, tags and labels attached to the unit, and other safety precautions that may apply.

Follow all safety codes. Wear safety glasses and work gloves.

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, and CAUTION. 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 a hazard 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

ELECTRICAL SHOCK HAZARD

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

Before beginning any modification, disconnect power supply and install lockout tag before attempting to install the accessory. All wiring must comply with applicable national and local codes.

WARNING

PERSONAL INJURY AND EQUIPMENT DAMAGE HAZARD

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

Field modification of electric heat staging may result in the overriding of electric heat safety switches and is prohibited.

GENERAL

This installation instruction covers accessory heaters CRHEATER270A00 through CRHEATER287A00. Each kit contains the heater module, wire ties, and three $\frac{1}{4}$ -20 nuts. See Tables 1 - 10 for unit electrical data and kit usage.

NOTE: All vertical supply units with electric heat require a field-supplied 90-degree elbow. The elbow must be installed in the supply ductwork below the unit discharged connection.

NOTE: Check Tables 1 - 10 for the correct Single Point kit to use when single point power entry is desired. The single point kit required varies with the specific heater accessory used.

NOTE: For units equipped with a non fused disconnect switch, the disconnect must be adequately sized for the electric heater. If the disconnect switch supplied with the equipment is not sized to handle the ampacity of the Electric Heater Accessory kit for cooling units or the Electric Heater Accessory kit plus the unit ampacity for heat pump units, the Electric heater kit must be wired to a separate disconnect switch sized to handle the Electric Heater Accessory kit ampacity. Refer to the unit's nameplate or the Product Data for the unit.

Table 1 – 15 Ton Capacity Models / Horizontal Duct Configuration

NOM. V–Ph–Hz	IFM TYPE	ELECTRIC HEATER PN	MODEL	NOMINAL kW	STAGES	SINGLE POINT KIT
208/230–3–60	STD	CRHEATER270A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	Not Required ³
			50HC/551J/RAH			
		CRHEATER271A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER272A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE056A00
			50HC/551J/RAH			
	MED	CRHEATER270A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	Not Required ³
			50HC/551J/RAH			
		CRHEATER271A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER272A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE056A00
			50HC/551J/RAH			
460–3–60	STD	CRHEATER273A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	Not Required ⁴
			50HC/551J/RAH			
		CRHEATER274A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	Not Required ^{1, 4}
			50HC/551J/RAH			
		CRHEATER275A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
	MED	CRHEATER273A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	Not Required ⁴
			50HC/551J/RAH			
		CRHEATER274A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER275A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
400–3–50	STD	CRHEATER273A00	50TC	17.4	2	Not Required
		CRHEATER274A00	50TC	34.7	2	Not Required ¹
		CRHEATER275A00	50TC	52.1	2	CRSINGLE057A00
	MED	CRHEATER273A00	50TC	17.4	2	Not Required
		CRHEATER274A00	50TC	34.7	2	Not Required ¹
		CRHEATER275A00	50TC	52.1	2	CRSINGLE057A00
	HIGH	CRHEATER273A00	50TC	17.4	2	Not Required
		CRHEATER274A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER275A00	50TC	52.1	2	CRSINGLE057A00
575–3–60	STD	CRHEATER276A00	50TC/50TCQ/558J/548J/RAS/RHS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER277A00	50TC/50TCQ/558J/548J/RAS/RHS	49.6	2	Not Required ^{2, 4}
			50HC/551J/RAH			
		CRHEATER278A00	50TC/50TCQ/558J/548J/RAS/RHS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			
	MED	CRHEATER276A00	50TC/50TCQ/558J/548J/RAS/RHS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER277A00	50TC/50TCQ/558J/548J/RAS/RHS	49.6	2	Not Required ^{2, 4}
			50HC/551J/RAH			
		CRHEATER278A00	50TC/50TCQ/558J/548J/RAS/RHS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			
575–3–60	HIGH	CRHEATER276A00	50TC/50TCQ/558J/548J/RAS/RHS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER277A00	50TC/50TCQ/558J/548J/RAS/RHS	49.6	2	Not Required ^{1, 4}
			50HC/551J/RAH			
		CRHEATER278A00	50TC/50TCQ/558J/548J/RAS/RHS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			

¹ CRSINGLE057A00 required with power exhaust

² CRSINGLE057A00 required with combination of power exhaust and powered convenience outlet

³ CRSINGLE056A00 required for 50TCQ/548J/RHS units

⁴ CRSINGLE057A00 required for 50TCQ/548J/RHS units

Table 2 – 15 Ton Capacity Models / Vertical Duct Configuration

NOM. V–Ph–Hz	IFM TYPE	ELECTRIC HEATER PN	MODEL	NOMINAL kW	STAGES	SINGLE POINT KIT
208/230–3–60	STD	CRHEATER279A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	Not Required ³
			50HC/551J/RAH			
		CRHEATER280A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER281A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE056A00
			50HC/551J/RAH			
	MED	CRHEATER279A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	Not Required ³
			50HC/551J/RAH			
		CRHEATER280A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER281A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE056A00
			50HC/551J/RAH			
460–3–60	STD	CRHEATER282A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	Not Required ⁴
			50HC/551J/RAH			
		CRHEATER283A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	Not Required ^{1, 4}
			50HC/551J/RAH			
		CRHEATER284A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
	MED	CRHEATER282A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	Not Required ⁴
			50HC/551J/RAH			
		CRHEATER283A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER284A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
400–3–50	STD	CRHEATER282A00	50TC	17.4	2	Not Required
		CRHEATER283A00	50TC	34.7	2	Not Required ¹
		CRHEATER284A00	50TC	52.0	2	CRSINGLE057A00
	MED	CRHEATER282A00	50TC	17.4	2	Not Required
		CRHEATER283A00	50TC	34.7	2	Not Required ¹
		CRHEATER284A00	50TC	52.0	2	CRSINGLE057A00
	HIGH	CRHEATER282A00	50TC	17.4	2	Not Required
		CRHEATER283A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER284A00	50TC	52.0	2	CRSINGLE057A00
575–3–60	STD	CRHEATER285A00	50TC/50TCQ/558J/548J/RAS/RHS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER286A00	50TC/50TCQ/558J/548J/RAS/RHS	49.6	2	Not Required ^{2, 4}
			50HC/551J/RAH			
		CRHEATER287A00	50TC/50TCQ/558J/548J/RAS/RHS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			
	MED	CRHEATER285A00	50TC/50TCQ/558J/548J/RAS/RHS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER286A00	50TC/50TCQ/558J/548J/RAS/RHS	49.6	2	Not Required ^{2, 4}
			50HC/551J/RAH			
		CRHEATER287A00	50TC/50TCQ/558J/548J/RAS/RHS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			
575–3–60	HIGH	CRHEATER285A00	50TC/50TCQ/558J/548J/RAS/RHS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER286A00	50TC/50TCQ/558J/548J/RAS/RHS	49.6	2	Not Required ^{1, 4}
			50HC/551J/RAH			
		CRHEATER287A00	50TC/50TCQ/558J/548J/RAS/RHS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			

¹ CRSINGLE057A00 required with power exhaust

² CRSINGLE057A00 required with combination of power exhaust and powered convenience outlet

³ CRSINGLE056A00 required for 50TCQ/548J/RHS units

⁴ CRSINGLE057A00 required for 50TCQ/548J/RHS units

CRHEATER270A00 – 287A00

Table 3 – 17.5 Ton Capacity Models / Horizontal Duct Configuration

NOM. V–Ph–Hz	IFM TYPE	ELECTRIC HEATER PN	MODEL	NOMINAL kW	STAGES	SINGLE POINT KIT
208/230–3–60	STD	CRHEATER270A00	50TC/558J/RAS	25.0	2	Not Required
			50HC/551J/RAH			
		CRHEATER271A00	50TC/558J/RAS	50.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER272A00	50TC/558J/RAS	75.0	2	CRSINGLE056A00
			50HC/551J/RAH			
	MED	CRHEATER270A00	50TC/558J/RAS	25.0	2	Not Required
			50HC/551J/RAH			
		CRHEATER271A00	50TC/558J/RAS	50.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER272A00	50TC/558J/RAS	75.0	2	CRSINGLE056A00
			50HC/551J/RAH			
460–3–60	STD	CRHEATER273A00	50TC/558J/RAS	25.0	2	Not Required
			50HC/551J/RAH			
		CRHEATER274A00	50TC/558J/RAS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER275A00	50TC/558J/RAS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
	MED	CRHEATER273A00	50TC/558J/RAS	25.0	2	Not Required
			50HC/551J/RAH			
		CRHEATER274A00	50TC/558J/RAS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER275A00	50TC/558J/RAS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
400–3–50	STD	CRHEATER273A00	50TC	17.4	2	Not Required
		CRHEATER274A00	50TC	34.7	2	Not Required ¹
		CRHEATER275A00	50TC	52.1	2	CRSINGLE057A00
	MED	CRHEATER273A00	50TC	17.4	2	Not Required
		CRHEATER274A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER275A00	50TC	52.1	2	CRSINGLE057A00
	HIGH	CRHEATER273A00	50TC	17.4	2	Not Required
		CRHEATER274A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER275A00	50TC	52.1	2	CRSINGLE057A00
575–3–60	STD	CRHEATER276A00	50TC/558J/RAS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER277A00	50TC/558J/RAS	49.6	2	Not Required ²
			50HC/551J/RAH			
		CRHEATER278A00	50TC/558J/RAS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			
	MED	CRHEATER276A00	50TC/558J/RAS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER277A00	50TC/558J/RAS	49.6	2	Not Required ¹
			50HC/551J/RAH			
		CRHEATER278A00	50TC/558J/RAS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			
575–3–60	HIGH	CRHEATER276A00	50TC/558J/RAS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER277A00	50TC/558J/RAS	49.6	2	Not Required ¹
			50HC/551J/RAH			
		CRHEATER278A00	50TC/558J/RAS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			

¹ CRSINGLE057A00 required with power exhaust

² CRSINGLE057A00 required with combination of power exhaust and powered convenience outlet

Table 4 – 17.5 Ton Capacity Models / Vertical Duct Configuration

NOM. V–Ph–Hz	IFM TYPE	ELECTRIC HEATER PN	MODEL	NOMINAL kW	STAGES	SINGLE POINT KIT
208/230–3–60	STD	CRHEATER279A00	50TC/558J/RAS	25.0	2	Not Required
			50HC/551J/RAH			
		CRHEATER280A00	50TC/558J/RAS	50.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER281A00	50TC/558J/RAS	75.0	2	CRSINGLE056A00
			50HC/551J/RAH			
	MED	CRHEATER279A00	50TC/558J/RAS	25.0	2	Not Required
			50HC/551J/RAH			
		CRHEATER280A00	50TC/558J/RAS	50.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER281A00	50TC/558J/RAS	75.0	2	CRSINGLE056A00
			50HC/551J/RAH			
460–3–60	STD	CRHEATER282A00	50TC/558J/RAS	25.0	2	Not Required
			50HC/551J/RAH			
		CRHEATER283A00	50TC/558J/RAS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER284A00	50TC/558J/RAS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
	MED	CRHEATER282A00	50TC/558J/RAS	25.0	2	Not Required
			50HC/551J/RAH			
		CRHEATER283A00	50TC/558J/RAS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER284A00	50TC/558J/RAS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
400–3–50	STD	CRHEATER282A00	50TC	17.4	2	Not Required
		CRHEATER283A00	50TC	34.7	2	Not Required ¹
		CRHEATER284A00	50TC	52.0	2	CRSINGLE057A00
	MED	CRHEATER282A00	50TC	17.4	2	Not Required
		CRHEATER283A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER284A00	50TC	52.0	2	CRSINGLE057A00
	HIGH	CRHEATER282A00	50TC	17.4	2	Not Required
		CRHEATER283A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER284A00	50TC	52.0	2	CRSINGLE057A00
575–3–60	STD	CRHEATER285A00	50TC/558J/RAS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER286A00	50TC/558J/RAS	49.6	2	Not Required ²
			50HC/551J/RAH			
		CRHEATER287A00	50TC/558J/RAS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			
	MED	CRHEATER285A00	50TC/558J/RAS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER286A00	50TC/558J/RAS	49.6	2	Not Required ¹
			50HC/551J/RAH			
		CRHEATER287A00	50TC/558J/RAS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			
575–3–60	HIGH	CRHEATER285A00	50TC/558J/RAS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER286A00	50TC/558J/RAS	49.6	2	Not Required ¹
			50HC/551J/RAH			
		CRHEATER287A00	50TC/558J/RAS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			

¹ CRSINGLE057A00 required with power exhaust

² CRSINGLE057A00 required with combination of power exhaust and powered convenience outlet

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Table 5 – 20 Ton Capacity Models / Horizontal Duct Configuration

NOM. V–Ph–Hz	IFM TYPE	ELECTRIC HEATER PN	MODEL	NOMINAL kW	STAGES	SINGLE POINT KIT
208/230–3–60	STD	CRHEATER270A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	CRSINGLE056A00
			50HC/551J/RAH			Not Required
		CRHEATER271A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER272A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE056A00
			50HC/551J/RAH			
	MED	CRHEATER270A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	CRSINGLE056A00
			50HC/551J/RAH			Not Required
		CRHEATER271A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER272A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE056A00
			50HC/551J/RAH			
460–3–60	STD	CRHEATER273A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	Not Required ⁵
			50HC/551J/RAH			
		CRHEATER274A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER275A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
	MED	CRHEATER273A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	Not Required ⁵
			50HC/551J/RAH			
		CRHEATER274A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER275A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
	HIGH	CRHEATER273A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	Not Required ³
			50HC/551J/RAH			Not Required ^{3, 4}
		CRHEATER274A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER275A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
400–3–50	STD	CRHEATER273A00	50TC	17.4	2	Not Required
		CRHEATER274A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER275A00	50TC	52.1	2	CRSINGLE057A00
	MED	CRHEATER273A00	50TC	17.4	2	Not Required
		CRHEATER274A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER275A00	50TC	52.1	2	CRSINGLE057A00
	HIGH	CRHEATER273A00	50TC	17.4	2	Not Required ³
		CRHEATER274A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER275A00	50TC	52.1	2	CRSINGLE057A00
575–3–60	STD	CRHEATER276A00	50TC/50TCQ/558J/548J/RAS/RHS	24.8	2	Not Required ⁶
			50HC/551J/RAH			Not Required
		CRHEATER277A00	50TC/50TCQ/558J/548J/RAS/RHS	49.6	2	Not Required ^{3, 5}
			50HC/551J/RAH			Not Required ^{3, 4}
		CRHEATER278A00	50TC/50TCQ/558J/548J/RAS/RHS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			
	MED	CRHEATER276A00	50TC/50TCQ/558J/548J/RAS/RHS	24.8	2	Not Required ⁶
			50HC/551J/RAH			Not Required
		CRHEATER277A00	50TC/50TCQ/558J/548J/RAS/RHS	49.6	2	Not Required ^{3, 5}
			50HC/551J/RAH			Not Required ^{3, 4}
		CRHEATER278A00	50TC/50TCQ/558J/548J/RAS/RHS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			
	HIGH	CRHEATER276A00	50TC/50TCQ/558J/548J/RAS/RHS	24.8	2	Not Required ⁶
			50HC/551J/RAH			Not Required
		CRHEATER277A00	50TC/50TCQ/558J/548J/RAS/RHS	49.6	2	Not Required ^{3, 4, 5}
			50HC/551J/RAH			Not Required ^{3, 4}
		CRHEATER278A00	50TC/50TCQ/558J/548J/RAS/RHS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			

¹ CRSINGLE056A00 required with power exhaust

² CRSINGLE056A00 required with combination of power exhaust and powered convenience outlet

³ CRSINGLE057A00 required with power exhaust

⁴ CRSINGLE057A00 required with combination of power exhaust and powered convenience outlet

⁵ CRSINGLE057A00 required for 50TCQ/548J/RHS units

⁶ CRSINGLE057A00 required for 50TCQ/548J/RHS units with power exhaust

Table 6 – 20 Ton Capacity Models / Vertical Duct Configuration

NOM. V–Ph–Hz	IFM TYPE	ELECTRIC HEATER PN	MODEL	NOMINAL kW	STAGES	SINGLE POINT KIT
208/230–3–60	STD	CRHEATER279A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	CRSINGLE056A00
			50HC/551J/RAH			Not Required
		CRHEATER280A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER281A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE056A00
			50HC/551J/RAH			
	MED	CRHEATER279A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	CRSINGLE056A00
			50HC/551J/RAH			Not Required
		CRHEATER280A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER281A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE056A00
			50HC/551J/RAH			
460–3–60	STD	CRHEATER282A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	Not Required ⁵
			50HC/551J/RAH			
		CRHEATER283A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER284A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
	MED	CRHEATER282A00	50TC/50TCQ/558J/548J/RAS/RHS	25.0	2	Not Required ⁶
			50HC/551J/RAH			
		CRHEATER283A00	50TC/50TCQ/558J/548J/RAS/RHS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER284A00	50TC/50TCQ/558J/548J/RAS/RHS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
400–3–50	STD	CRHEATER282A00	50TC	17.4	2	Not Required
		CRHEATER283A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER284A00	50TC	52.0	2	CRSINGLE057A00
	MED	CRHEATER282A00	50TC	17.4	2	Not Required
		CRHEATER283A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER284A00	50TC	52.0	2	CRSINGLE057A00
	HIGH	CRHEATER282A00	50TC	17.4	2	Not Required ³
		CRHEATER283A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER284A00	50TC	52.0	2	CRSINGLE057A00
575–3–60	STD	CRHEATER285A00	50TC/50TCQ/558J/548J/RAS/RHS	24.8	2	Not Required ⁶
			50HC/551J/RAH			
		CRHEATER286A00	50TC/50TCQ/558J/548J/RAS/RHS	49.6	2	Not Required ^{3, 5}
			50HC/551J/RAH			Not Required ^{3, 4}
		CRHEATER287A00	50TC/50TCQ/558J/548J/RAS/RHS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			
	MED	CRHEATER285A00	50TC/50TCQ/558J/548J/RAS/RHS	24.8	2	Not Required ⁶
			50HC/551J/RAH			
		CRHEATER286A00	50TC/50TCQ/558J/548J/RAS/RHS	49.6	2	Not Required ^{3, 5}
			50HC/551J/RAH			Not Required ^{3, 4}
		CRHEATER287A00	50TC/50TCQ/558J/548J/RAS/RHS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			
575–3–60	HIGH	CRHEATER285A00	50TC/50TCQ/558J/548J/RAS/RHS	24.8	2	Not Required ⁶
			50HC/551J/RAH			
		CRHEATER286A00	50TC/50TCQ/558J/548J/RAS/RHS	49.6	2	Not Required ^{3, 4, 5}
			50HC/551J/RAH			
		CRHEATER287A00	50TC/50TCQ/558J/548J/RAS/RHS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			

¹ CRSINGLE056A00 required with power exhaust

² CRSINGLE056A00 required with combination of power exhaust and powered convenience outlet

³ CRSINGLE057A00 required with power exhaust

⁴ CRSINGLE057A00 required with combination of power exhaust and powered convenience outlet

⁵ CRSINGLE057A00 required for 50TCQ/548J/RHS units

⁶ CRSINGLE057A00 required for 50TCQ/548J/RHS units with power exhaust

CRHEATER270A00 – 287A00

Table 7 – 25 Ton Capacity Models / Horizontal Duct Configuration

NOM. V–Ph–Hz	IFM TYPE	ELECTRIC HEATER PN	MODEL	NOMINAL kW	STAGES	SINGLE POINT KIT
208/230–3–60	STD	CRHEATER270A00	50TC/558J/RAS	25.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER271A00	50TC/558J/RAS	50.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER272A00	50TC/558J/RAS	75.0	2	CRSINGLE056A00
			50HC/551J/RAH			
	MED	CRHEATER270A00	50TC/558J/RAS	25.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER271A00	50TC/558J/RAS	50.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER272A00	50TC/558J/RAS	75.0	2	CRSINGLE056A00
			50HC/551J/RAH			
460–3–60	STD	CRHEATER273A00	50TC/558J/RAS	25.0	2	Not Required
			50HC/551J/RAH			
		CRHEATER274A00	50TC/558J/RAS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER275A00	50TC/558J/RAS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
	MED	CRHEATER273A00	50TC/558J/RAS	25.0	2	Not Required ¹
			50HC/551J/RAH			Not Required ²
		CRHEATER274A00	50TC/558J/RAS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER275A00	50TC/558J/RAS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
	HIGH	CRHEATER273A00	50TC/558J/RAS	25.0	2	CRSINGLE057A00
			50HC/551J/RAH			Not Required ¹
		CRHEATER274A00	50TC/558J/RAS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER275A00	50TC/558J/RAS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
400–3–50	STD	CRHEATER273A00	50TC	17.4	2	Not Required ¹
		CRHEATER274A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER275A00	50TC	52.1	2	CRSINGLE057A00
	MED	CRHEATER273A00	50TC	17.4	2	Not Required ¹
		CRHEATER274A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER275A00	50TC	52.1	2	CRSINGLE057A00
	HIGH	CRHEATER273A00	50TC	17.4	2	CRSINGLE057A00
		CRHEATER274A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER275A00	50TC	52.1	2	CRSINGLE057A00
575–3–60	STD	CRHEATER276A00	50TC/558J/RAS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER277A00	50TC/558J/RAS	49.6	2	Not Required ¹
			50HC/551J/RAH			
		CRHEATER278A00	50TC/558J/RAS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			
	MED	CRHEATER276A00	50TC/558J/RAS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER277A00	50TC/558J/RAS	49.6	2	Not Required ¹
			50HC/551J/RAH			
		CRHEATER278A00	50TC/558J/RAS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			
	HIGH	CRHEATER276A00	50TC/558J/RAS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER277A00	50TC/558J/RAS	49.6	2	Not Required ^{1, 2}
			50HC/551J/RAH			Not Required ¹
		CRHEATER278A00	50TC/558J/RAS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			

¹ CRSINGLE057A00 required with power exhaust

² CRSINGLE057A00 required with combination of power exhaust and powered convenience outlet

Table 8 – 25 Ton Capacity Models / Vertical Duct Configuration

NOM. V–Ph–Hz	IFM TYPE	ELECTRIC HEATER PN	MODEL	NOMINAL kW	STAGES	SINGLE POINT KIT
208/230–3–60	STD	CRHEATER279A00	50TC/558J/RAS	25.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER280A00	50TC/558J/RAS	50.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER281A00	50TC/558J/RAS	75.0	2	CRSINGLE056A00
			50HC/551J/RAH			
	MED	CRHEATER279A00	50TC/558J/RAS	25.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER280A00	50TC/558J/RAS	50.0	2	CRSINGLE056A00
			50HC/551J/RAH			
		CRHEATER281A00	50TC/558J/RAS	75.0	2	CRSINGLE056A00
			50HC/551J/RAH			
460–3–60	STD	CRHEATER282A00	50TC/558J/RAS	25.0	2	Not Required
			50HC/551J/RAH			
		CRHEATER283A00	50TC/558J/RAS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER284A00	50TC/558J/RAS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
	MED	CRHEATER282A00	50TC/558J/RAS	25.0	2	Not Required ¹
			50HC/551J/RAH			Not Required ²
		CRHEATER283A00	50TC/558J/RAS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER284A00	50TC/558J/RAS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
	HIGH	CRHEATER282A00	50TC/558J/RAS	25.0	2	CRSINGLE057A00
			50HC/551J/RAH			Not Required ¹
		CRHEATER283A00	50TC/558J/RAS	50.0	2	CRSINGLE057A00
			50HC/551J/RAH			
		CRHEATER284A00	50TC/558J/RAS	75.0	2	CRSINGLE057A00
			50HC/551J/RAH			
400–3–50	STD	CRHEATER282A00	50TC	17.4	2	Not Required ¹
		CRHEATER283A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER284A00	50TC	52.0	2	CRSINGLE057A00
	MED	CRHEATER282A00	50TC	17.4	2	Not Required ¹
		CRHEATER283A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER284A00	50TC	52.0	2	CRSINGLE057A00
	HIGH	CRHEATER282A00	50TC	17.4	2	CRSINGLE057A000
		CRHEATER283A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER284A00	50TC	52.0	2	CRSINGLE057A00
575–3–60	STD	CRHEATER285A00	50TC/558J/RAS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER286A00	50TC/558J/RAS	49.6	2	Not Required ¹
			50HC/551J/RAH			
		CRHEATER287A00	50TC/558J/RAS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			
	MED	CRHEATER285A00	50TC/558J/RAS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER286A00	50TC/558J/RAS	49.6	2	Not Required ¹
			50HC/551J/RAH			
		CRHEATER287A00	50TC/558J/RAS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			
	HIGH	CRHEATER285A00	50TC/558J/RAS	24.8	2	Not Required
			50HC/551J/RAH			
		CRHEATER286A00	50TC/558J/RAS	49.6	2	Not Required ^{1, 2}
			50HC/551J/RAH			Not Required ¹
		CRHEATER287A00	50TC/558J/RAS	74.4	2	CRSINGLE057A00
			50HC/551J/RAH			

¹ CRSINGLE057A00 required with power exhaust

² CRSINGLE057A00 required with combination of power exhaust and powered convenience outlet

CRHEATER270A00 – 287A00

Table 9 – 27.5 Ton Capacity Models / Horizontal Duct Configuration

NOM. V–Ph–Hz	IFM TYPE	ELECTRIC HEATER PN	MODEL	NOMINAL kW	STAGES	SINGLE POINT KIT
208/230–3–60	STD	CRHEATER270A00	50TC/558	25.0	2	CRSINGLE056A00
		CRHEATER271A00	50TC/558J	50.0	2	CRSINGLE056A00
		CRHEATER272A00	50TC/558J	75.0	2	CRSINGLE056A00
	MED	CRHEATER270A00	50TC/558J	25.0	2	CRSINGLE056A00
		CRHEATER271A00	50TC/558J	50.0	2	CRSINGLE056A00
		CRHEATER272A00	50TC/558J	75.0	2	CRSINGLE056A00
	HIGH	CRHEATER270A00	50TC/558J	25.0	2	CRSINGLE056A00
		CRHEATER271A00	50TC/558J	50.0	2	CRSINGLE056A00
		CRHEATER272A00	50TC/558J	75.0	2	CRSINGLE056A00
460–3–60	STD	CRHEATER273A00	50TC/558J	25.0	2	CRSINGLE057A00
		CRHEATER274A00	50TC/558J	50.0	2	CRSINGLE057A00
		CRHEATER275A00	50TC/558J	75.0	2	CRSINGLE057A00
	MED	CRHEATER273A00	50TC/558J	25.0	2	CRSINGLE057A00
		CRHEATER274A00	50TC/558J	50.0	2	CRSINGLE057A00
		CRHEATER275A00	50TC/558J	75.0	2	CRSINGLE057A00
	HIGH	CRHEATER273A00	50TC/558J	25.0	2	CRSINGLE057A00
		CRHEATER274A00	50TC/558J	50.0	2	CRSINGLE057A00
		CRHEATER275A00	50TC/558J	75.0	2	CRSINGLE057A00
400–3–50	STD	CRHEATER273A00	50TC	17.4	2	CRSINGLE057A00
		CRHEATER274A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER275A00	50TC	52.1	2	CRSINGLE057A00
	MED	CRHEATER273A00	50TC	17.4	2	CRSINGLE057A00
		CRHEATER274A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER275A00	50TC	52.1	2	CRSINGLE057A00
	HIGH	CRHEATER273A00	50TC	17.4	2	CRSINGLE057A00
		CRHEATER274A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER275A00	50TC	52.1	2	CRSINGLE057A00
575–3–60	STD	CRHEATER276A00	50TC/558J	24.8	2	Not Required ¹
		CRHEATER277A00	50TC/558J	49.6	2	Not Required ²
		CRHEATER278A00	50TC/558J	74.4	2	CRSINGLE057A00
	MED	CRHEATER276A00	50TC/558J	24.8	2	Not Required ¹
		CRHEATER277A00	50TC/558J	49.6	2	CRSINGLE057A00
		CRHEATER278A00	50TC/558J	74.4	2	CRSINGLE057A00
	HIGH	CRHEATER276A00	50TC/558J	24.8	2	Not Required ¹
		CRHEATER277A00	50TC/558J	49.6	2	CRSINGLE057A00
		CRHEATER278A00	50TC/558J	74.4	2	CRSINGLE057A00

¹ CRSINGLE057A00 required with power exhaust

² CRSINGLE057A00 required with combination of power exhaust and powered convenience outlet

Table 10 – 25 Ton Capacity Models / Vertical Duct Configuration

NOM. V–Ph–Hz	IFM TYPE	ELECTRIC HEATER PN	MODEL	NOMINAL kW	STAGES	SINGLE POINT KIT
208/230–3–60	STD	CRHEATER279A00	50TC/558J	25.0	2	CRSINGLE056A00
		CRHEATER280A00	50TC/558J	50.0	2	CRSINGLE056A00
		CRHEATER281A00	50TC/558J	75.0	2	CRSINGLE056A00
	MED	CRHEATER279A00	50TC/558J	25.0	2	CRSINGLE056A00
		CRHEATER280A00	50TC/558J	50.0	2	CRSINGLE056A00
		CRHEATER281A00	50TC/558J	75.0	2	CRSINGLE056A00
	HIGH	CRHEATER279A00	50TC/558J	25.0	2	CRSINGLE056A00
		CRHEATER280A00	50TC/558J	50.0	2	CRSINGLE056A00
		CRHEATER281A00	50TC/558J	75.0	2	CRSINGLE056A00
460–3–60	STD	CRHEATER282A00	50TC/558J	25.0	2	CRSINGLE057A00
		CRHEATER283A00	50TC/558J	50.0	2	CRSINGLE057A00
		CRHEATER284A00	50TC/558J	75.0	2	CRSINGLE057A00
	MED	CRHEATER282A00	50TC/558J	25.0	2	CRSINGLE057A00
		CRHEATER283A00	50TC/558J	50.0	2	CRSINGLE057A00
		CRHEATER284A00	50TC/558J	75.0	2	CRSINGLE057A00
	HIGH	CRHEATER282A00	50TC/558J	25.0	2	CRSINGLE057A00
		CRHEATER283A00	50TC/558J	50.0	2	CRSINGLE057A00
		CRHEATER284A00	50TC/558J	75.0	2	CRSINGLE057A00
400–3–50	STD	CRHEATER282A00	50TC	17.4	2	CRSINGLE057A00
		CRHEATER283A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER284A00	50TC	52.0	2	CRSINGLE057A00
	MED	CRHEATER282A00	50TC	17.4	2	CRSINGLE057A00
		CRHEATER283A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER284A00	50TC	52.0	2	CRSINGLE057A00
	HIGH	CRHEATER282A00	50TC	17.4	2	CRSINGLE057A00
		CRHEATER283A00	50TC	34.7	2	CRSINGLE057A00
		CRHEATER284A00	50TC	52.0	2	CRSINGLE057A00
575–3–60	STD	CRHEATER285A00	50TC/558J	24.8	2	Not Required ¹
		CRHEATER286A00	50TC/558J	49.6	2	Not Required ²
		CRHEATER287A00	50TC/558J	74.4	2	CRSINGLE057A00
	MED	CRHEATER285A00	50TC/558J	24.8	2	Not Required
		CRHEATER286A00	50TC/558J	49.6	2	CRSINGLE057A00
		CRHEATER287A00	50TC/558J	74.4	2	CRSINGLE057A00
	HIGH	CRHEATER285A00	50TC/558J	24.8	2	Not Required ¹
		CRHEATER286A00	50TC/558J	49.6	2	CRSINGLE057A00
		CRHEATER287A00	50TC/558J	74.4	2	CRSINGLE057A00

¹ CRSINGLE057A00 required with power exhaust

² CRSINGLE057A00 required with combination of power exhaust and powered convenience outlet

INSTALLATION

Heater Installation (All Units)

Perform the following procedure to install the accessory electric heaters:

1. Turn off power to the unit.
2. Remove electric heater section access panel, control box access panel, filter access panel, and blower access panel from base rooftop unit. (See Fig. 1.)

⚠ CAUTION

EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in damage to equipment.

When removing panels from the unit, be careful not to damage the roof or other surfaces with the panels.

⚠ CAUTION

CUT HAZARD

Failure to follow this caution may result in personal injury.

When removing access panels or performing maintenance functions inside your unit, be aware of sharp sheet metal parts and screws. Although special care is taken to reduce sharp edges to a minimum, be extremely careful when handling parts or reaching into the unit.

3. Remove the block-off plate and save screws. Remove post adjacent to control box and post located between filter access and blower access. (See Fig. 2.)
4. Insert heater assembly through opening where block-off plate was previously removed. Let back

end of heaters slide along support rails beneath fan deck. (See Fig. 3.)

5. Slide heaters until completely installed such that heater controls are completely in the unit. Using screws saved from Step 3, secure heater assembly. (See Fig. 4.)
6. Route heater power wires through grommets in vertical fan deck support. (See Fig. 3.) Continue routing wires under coil and filter support through the bottom notched section of the control box. Avoid sheet metal edges and any protruding screws.
7. Using three $\frac{1}{4}$ -20 nuts, connect power wires to the load side of terminal block.
If single point power entry is desired, a single point kit must be used. See Tables 1 - 10 for details on selecting the correct single point kit for the accessory heater being installed. Terminal block and fuse holder can be mounted using screws provided, locating the combination below unit terminal block. (See Fig. 5.) Heaters will be connected to the load side of the terminal block provided with kit. Load side of fuses to be connected to terminal block of main unit.
For dual power entry, purchase terminal block HY11UC313. Mount in pre-drilled holes using field-supplied fasteners. Connect power leads from heaters to field-supplied terminal block.
8. Connect low voltage control plug from heater to the control plug from unit.
9. Re-install posts previously removed. When re-installing screws insure that wires do not come into contact with screw tips.
10. Re-install blower access, heater access, filter and control box access panels.
11. Mark nameplate with a check mark next to heater installed.

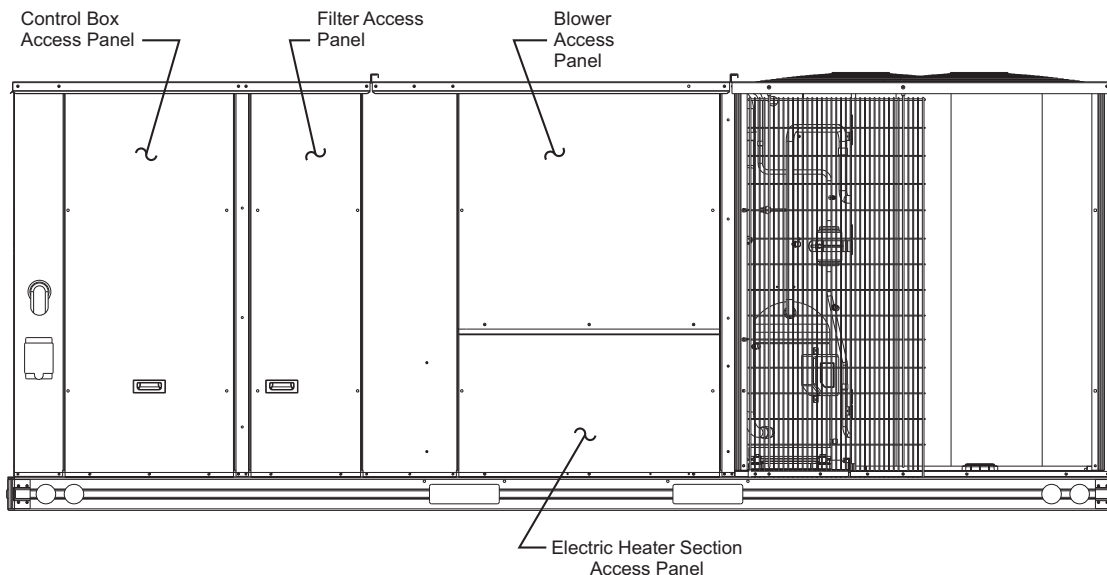


Fig. 1 - Typical Unit – Access Panel Locations

C09420

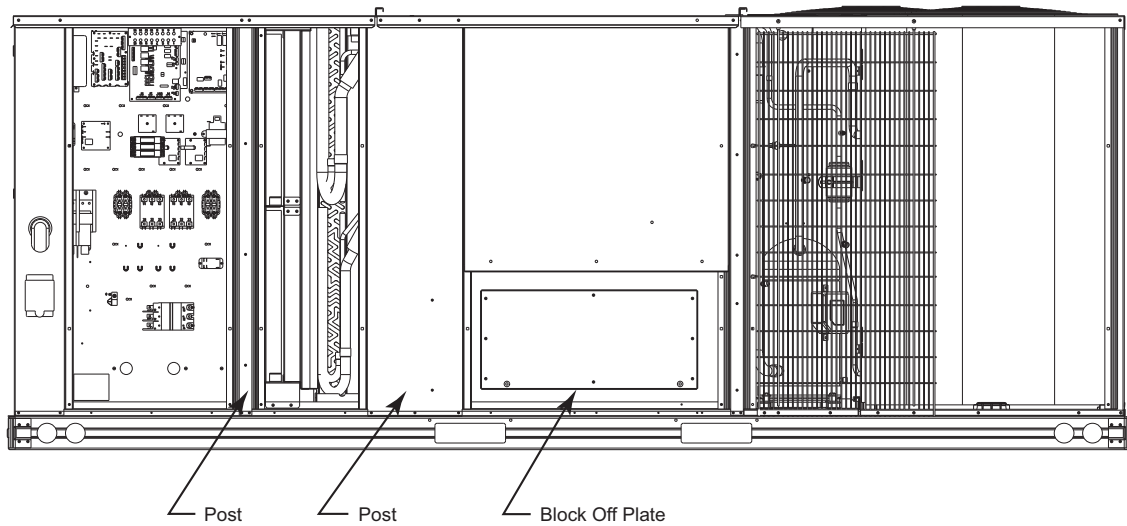


Fig. 2 - Block-Off Plate and Post Locations

C09421

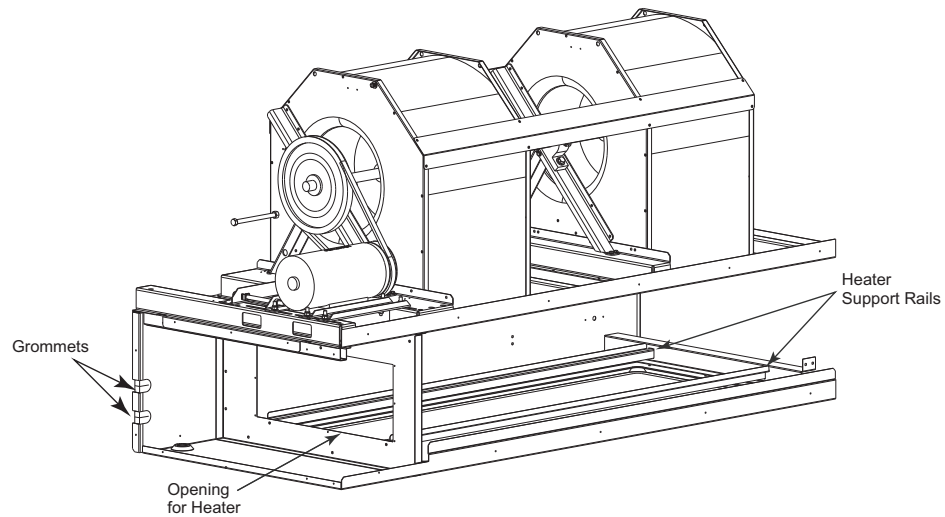


Fig. 3 - Opening for Electric Heater

C09422

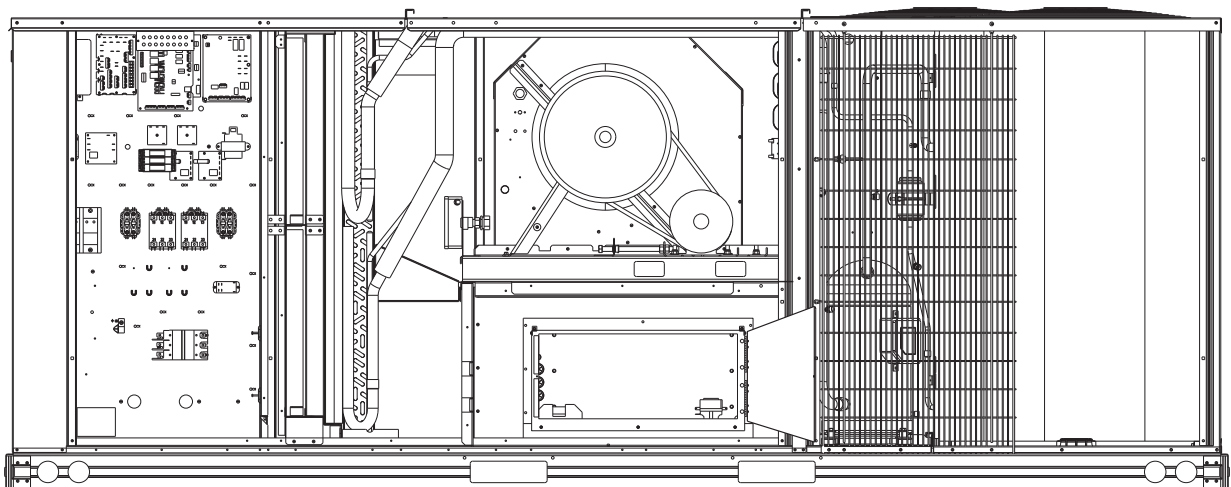


Fig. 4 - Electric Heater Accessory In Place (shown with Access Door Opened)

C09423

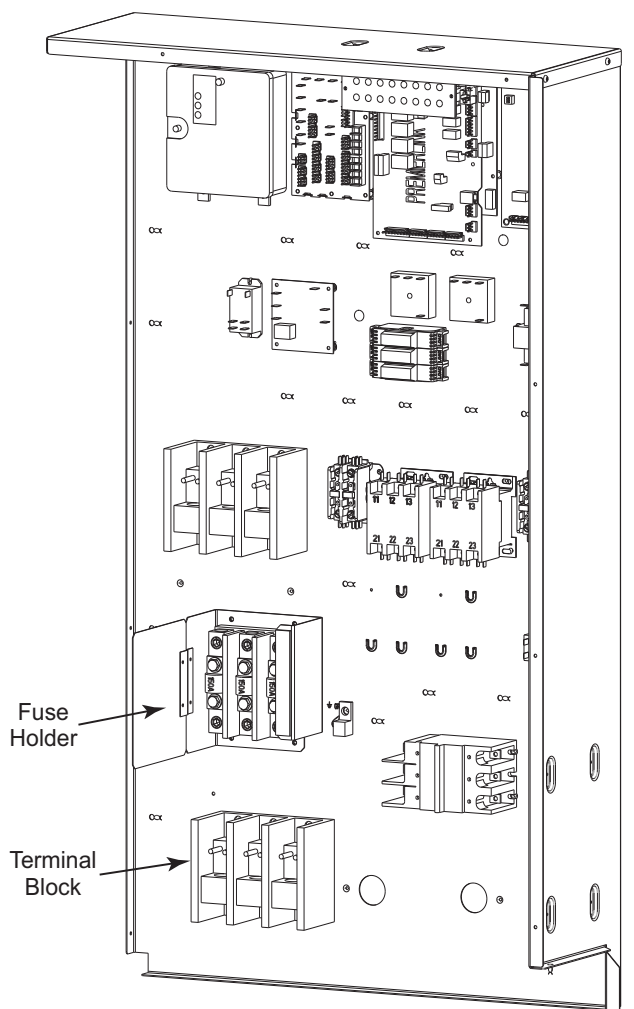


Fig. 5 - Single Point Installation

START-UP

1. Check electrical connections
2. Turn thermostat to OFF position.
3. Restore power to unit.
4. Check voltage supply and match the reading against unit and heater nameplate.
5. Slowly turn thermostat up until fan comes on. First stage of electric heat should be on depending on thermostat.
6. Continue raising thermostat until stage 2 comes on.
7. Set temperature to desired level or return thermostat to the OFF position.

UNIT WIRING

BLK YEL BLU

21 22 23
TB1

11 12 13

SINGLE POINT KIT ACCESSORY

BLK YEL BLU

21 22 23
FB

11 12 13

COMPONENT ARRANGEMENT

HC2 HC1

FB2 FB1

LS

RED

LEGEND

ELE - Heater Element
HC - Heater Contactor
HCR - Heater Control Relay
FU - Fuse Block
HTR - Heater
LS - Limit Switch
TB - Terminal Block
Control Wiring — — —
Power Wiring — — —

WARNING: ELECTRIC SHOCK HAZARD - DISCONNECT ALL POWER BEFORE SERVICING.

***CONNECT HEATER WIRES TO UNIT TERMINAL BLOCK WHEN SINGLE POINT KIT IS NOT REQUIRED.**

C11355

WIRING DIAGRAMS

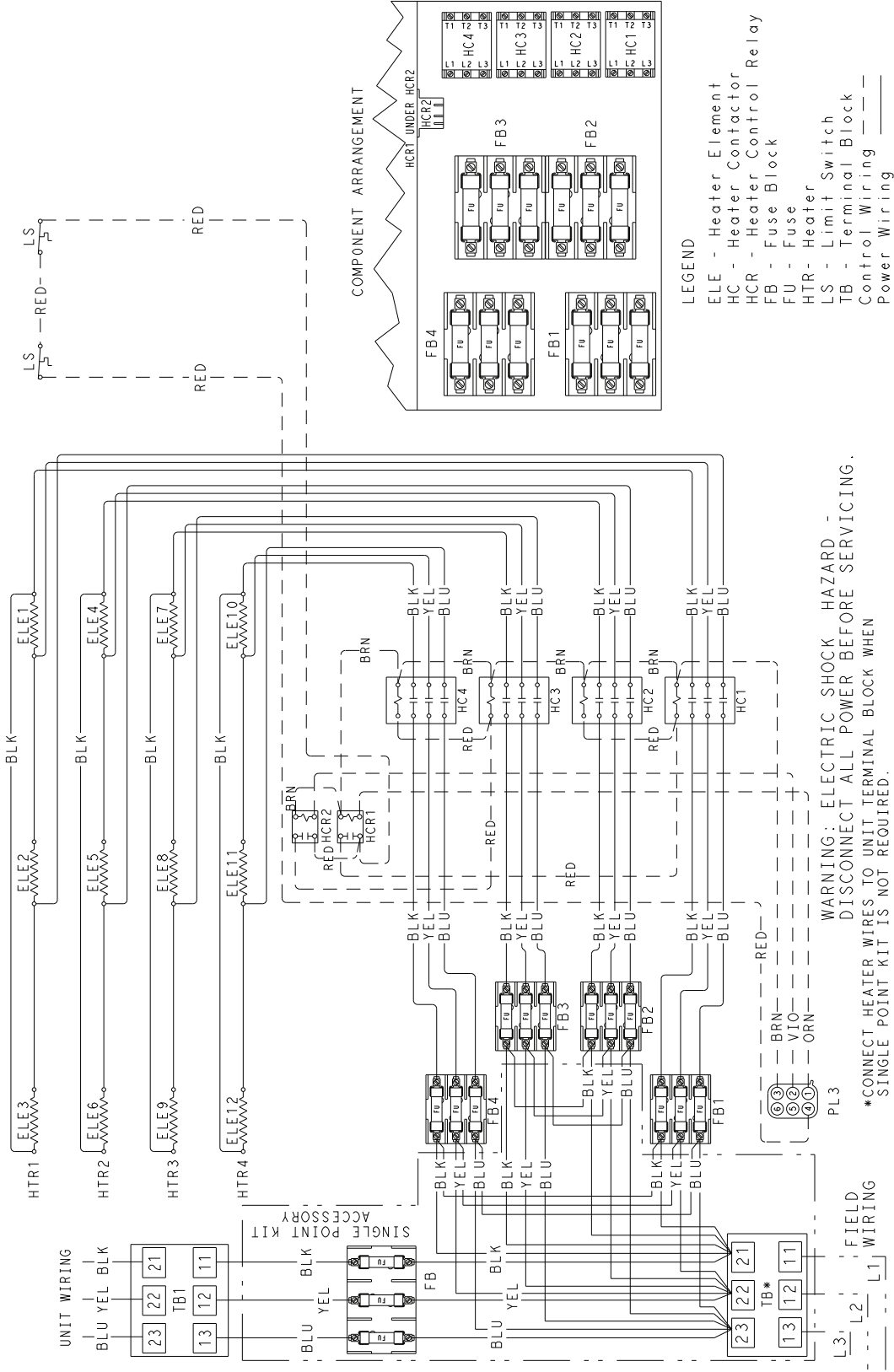
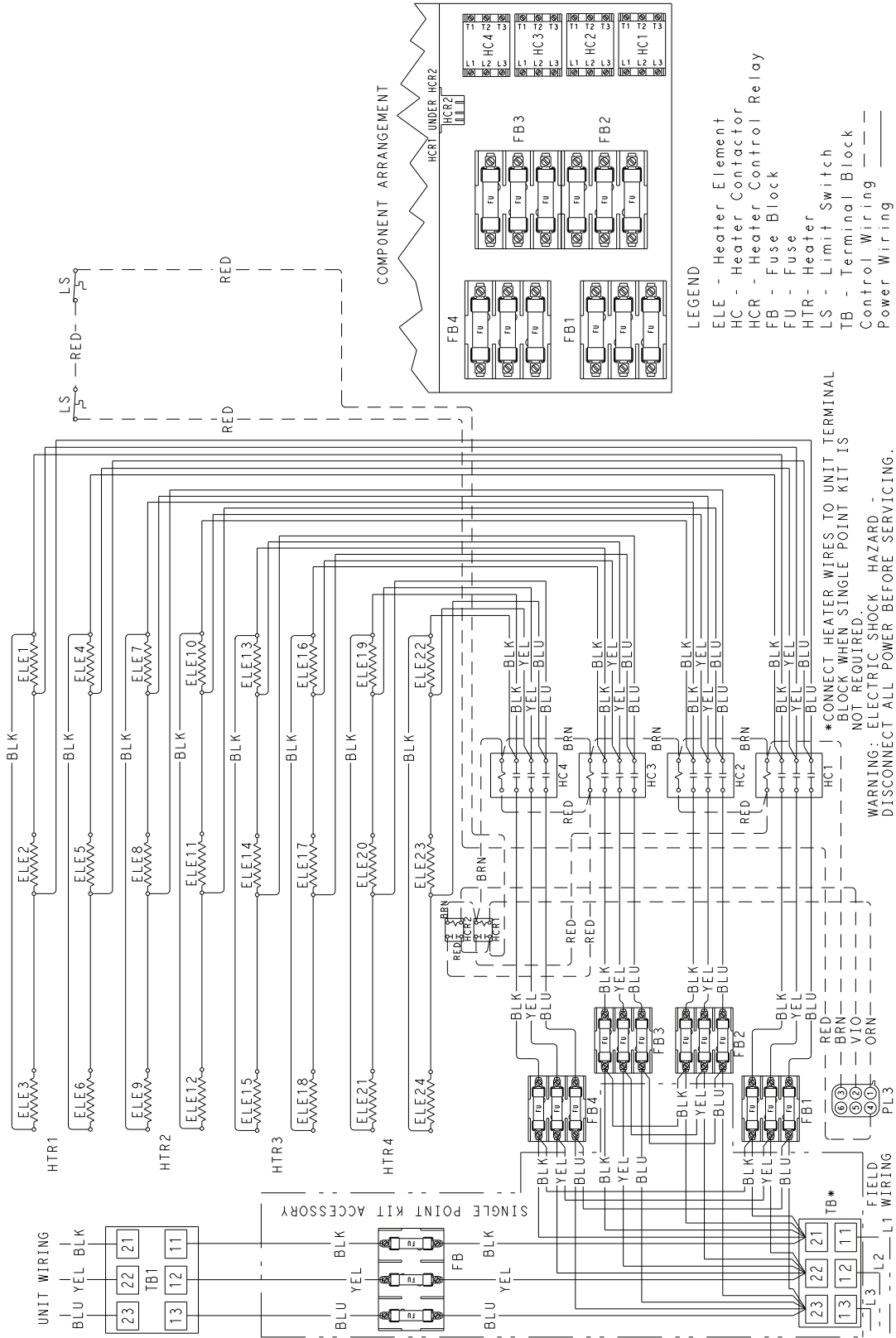


Fig. 7 - CRHEATER271A00 and CRHEATER280A00 — 50 kW, 208/230 V, 60 Hz

C11356

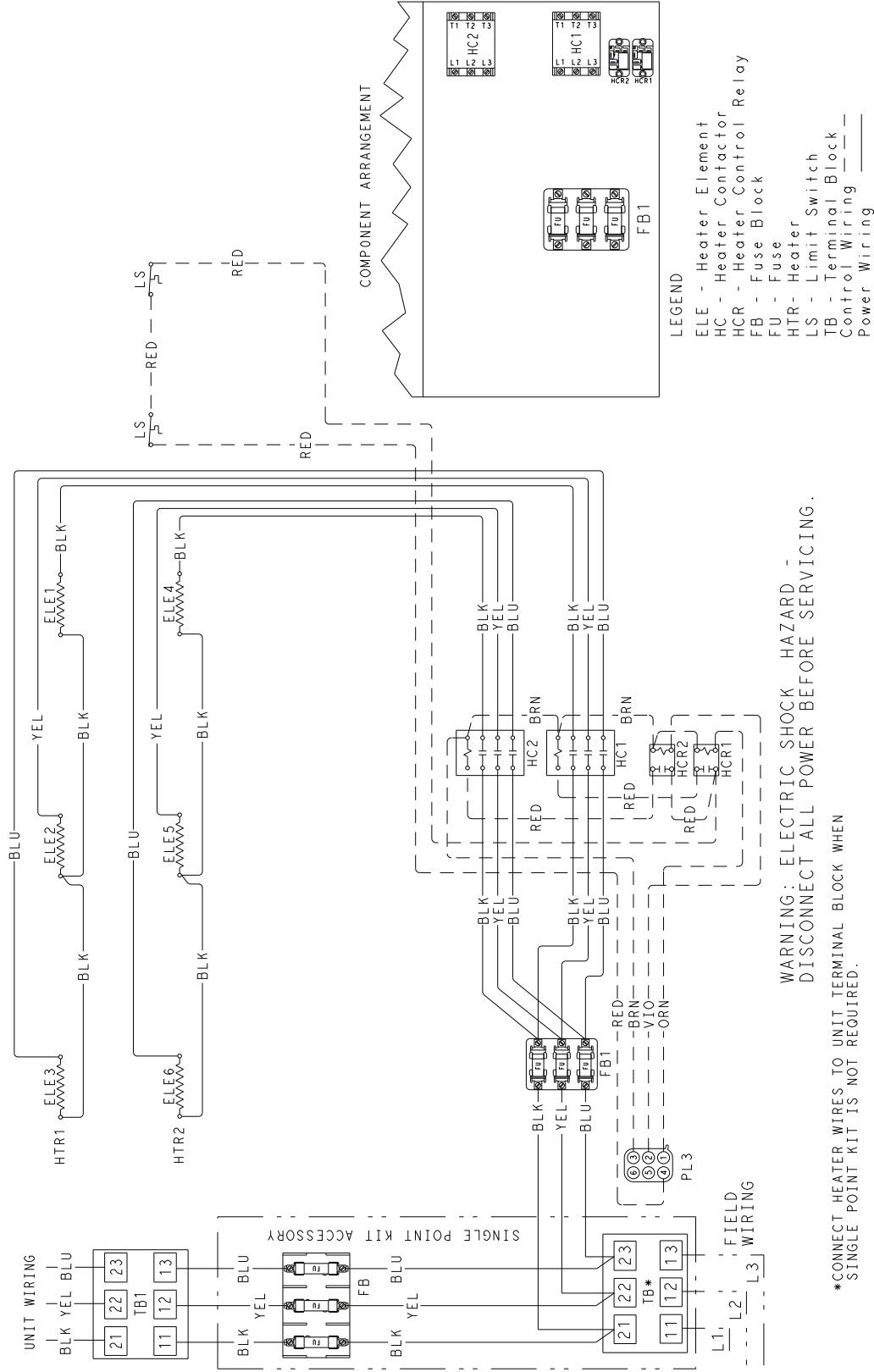
WIRING DIAGRAMS



C11357

Fig. 8 - CRHEATER272A00 and CRHEATER281A00 — 75 kW, 208/230 V, 60 Hz

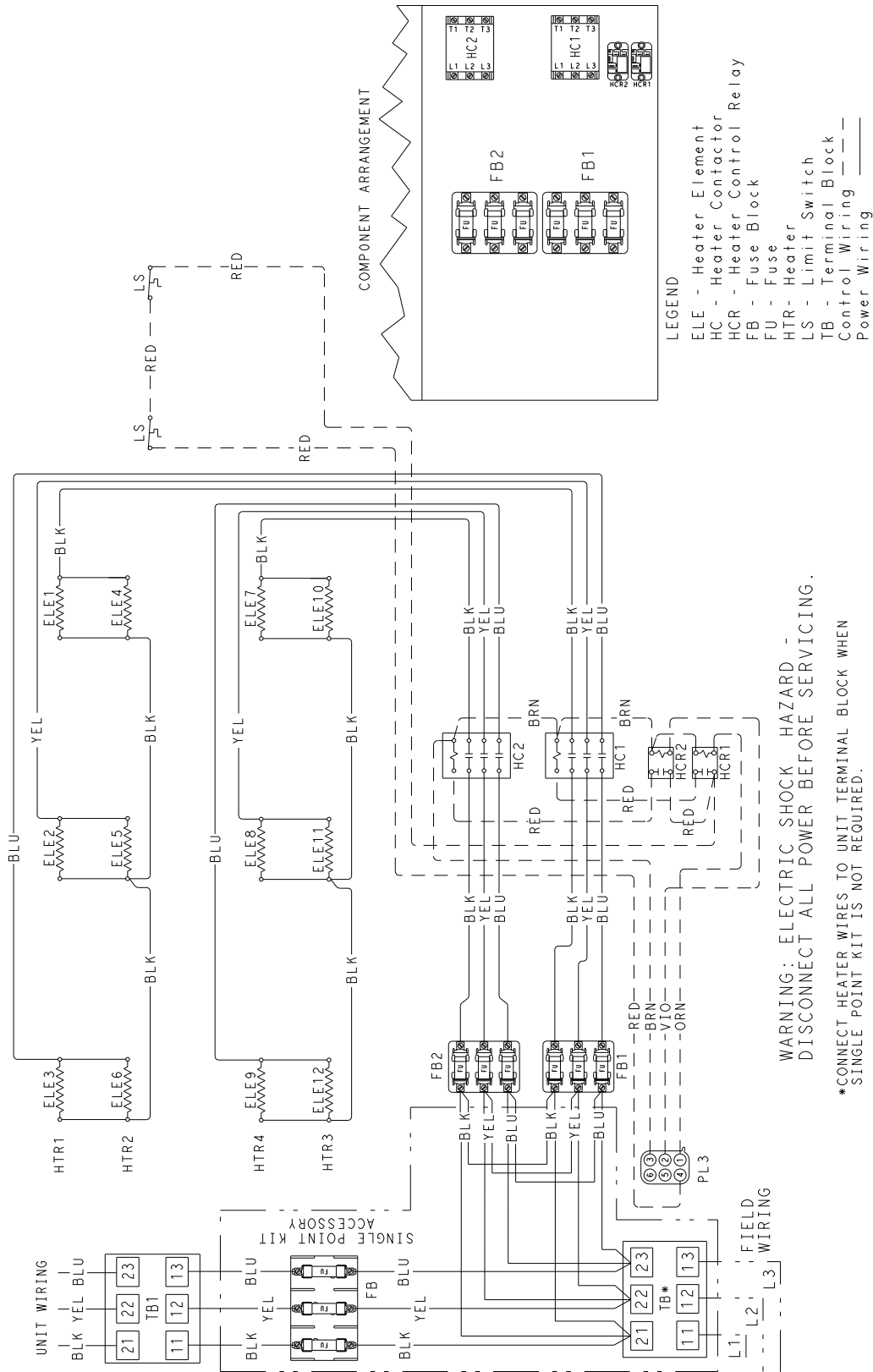
WIRING DIAGRAMS



C11358

Fig. 9 - CRHEATER273A00 and CRHEATER282A00 —25/17.4 kW, 460/400 V, 60/50 Hz

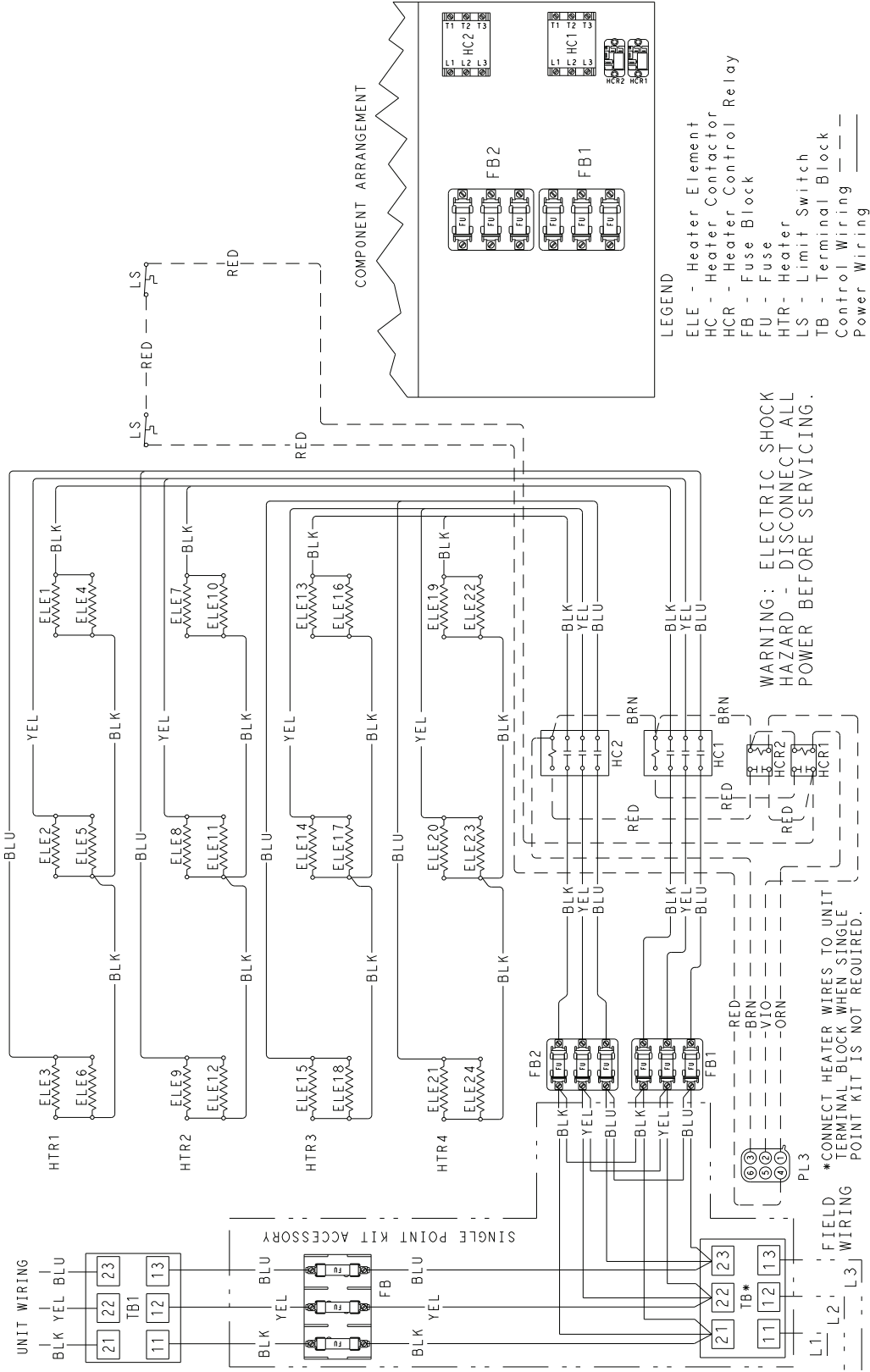
WIRING DIAGRAMS



C11359

Fig. 10 - CRHEATER274A00 and CRHEATER283A00 — 50/34.7 kW, 460/400 V, 60/50 Hz

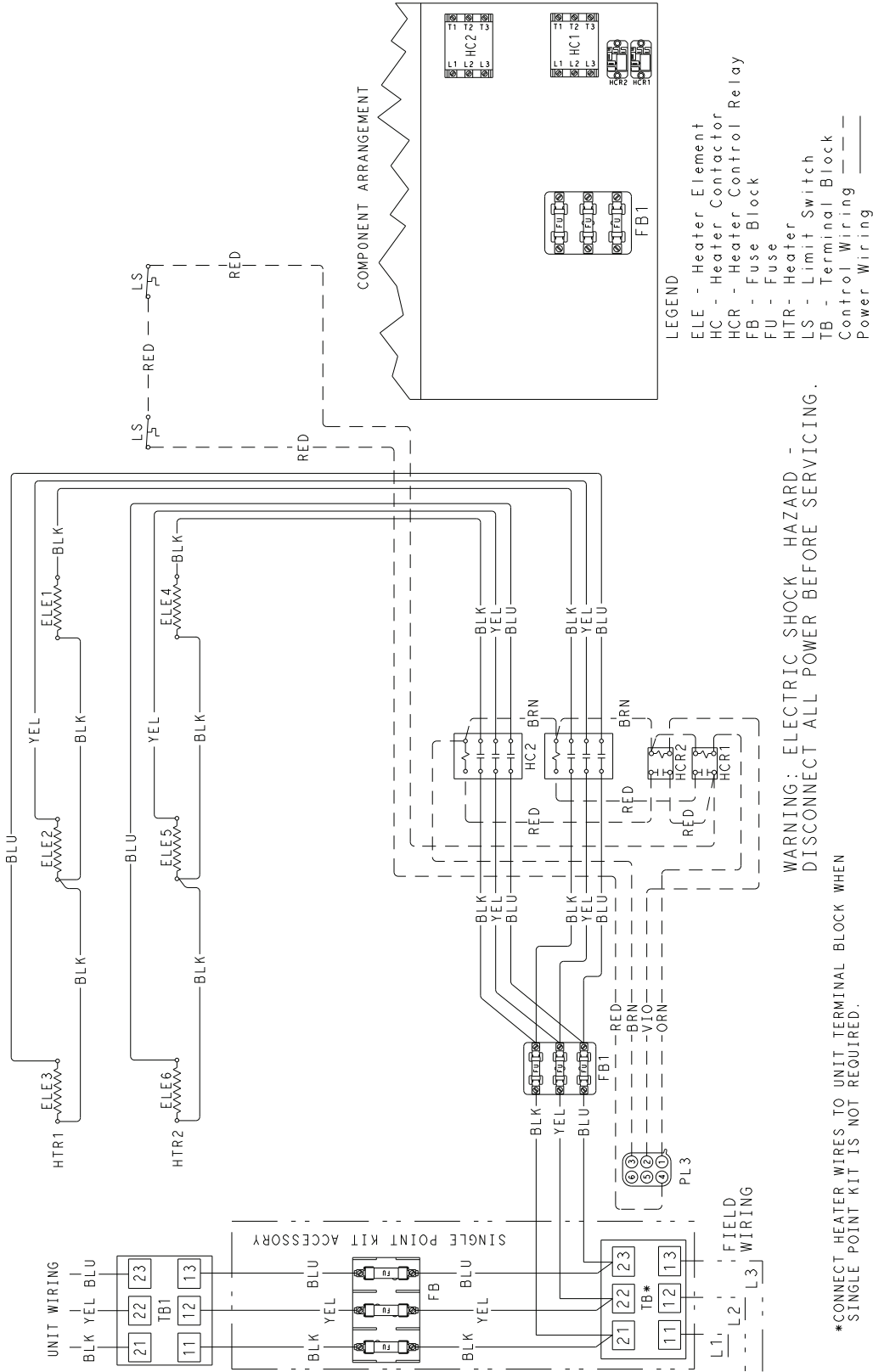
WIRING DIAGRAMS



C11360

Fig. 11 - CRHEATER275A00 and CRHEATER284A00 — 75/52 kW, 460/400 V, 60/50 Hz

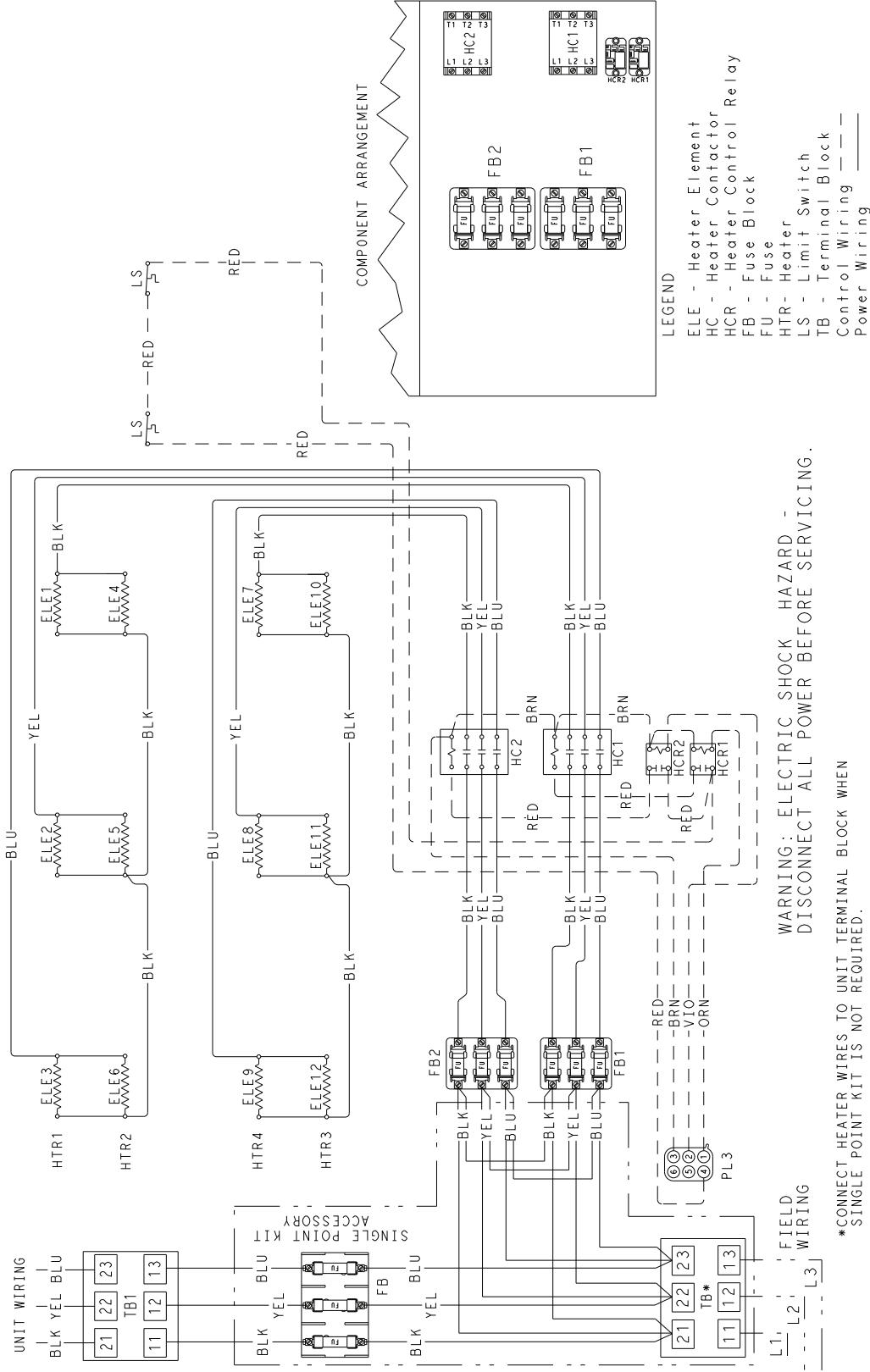
WIRING DIAGRAMS



C11361

Fig. 12 - CRHEATER276A00 and CRHEATER285A00 — 25 kW, 575 V, 60 Hz

WIRING DIAGRAMS



C11362

Fig. 13 - CRHEATER277A00 and CRHEATER286A00 — 50 KW, 575 V, 60 Hz

[illegible]

Fig. 14 - CRHEATER278A00 and CRHEATER287A00 — 75 kW, 575 V, 60 Hz

C11363

