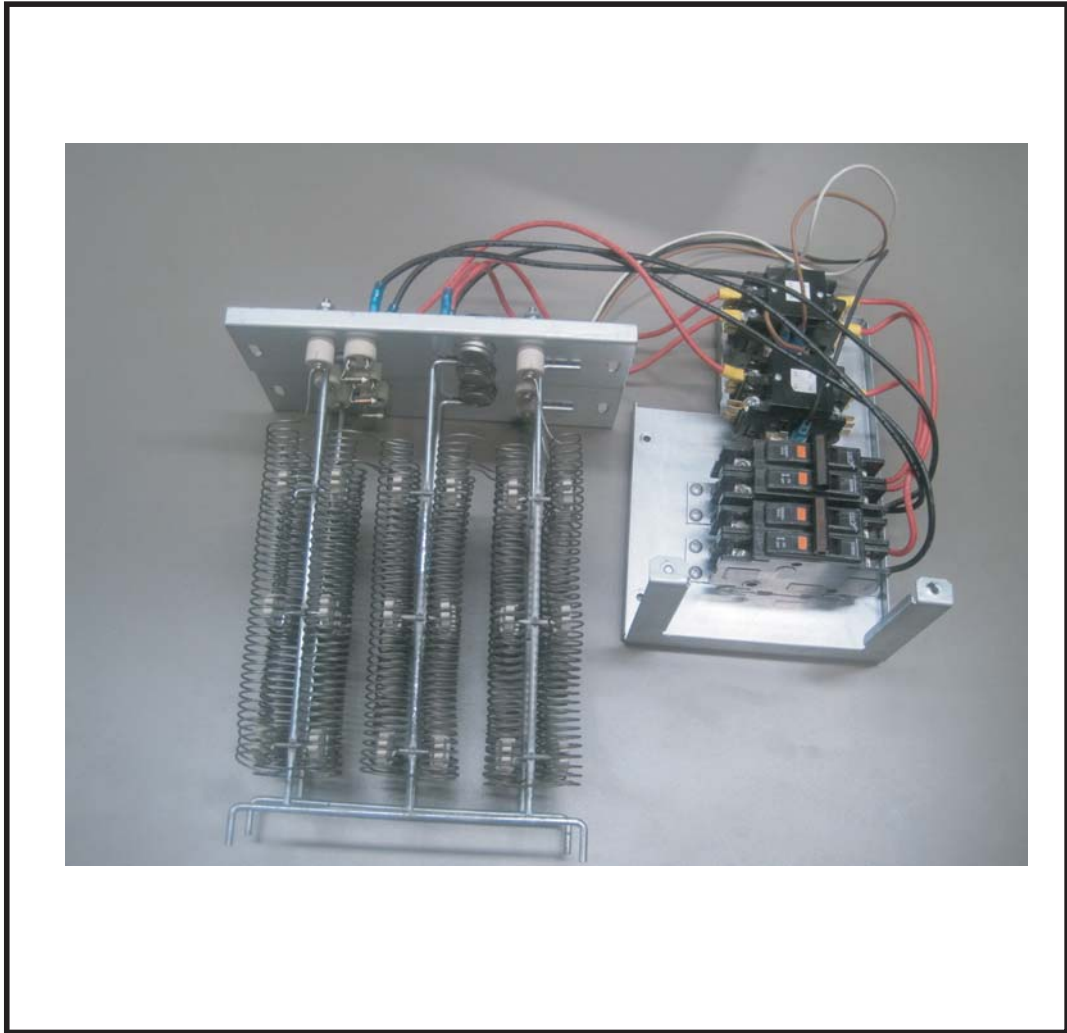


INSTALLATION INSTRUCTIONS

ELECTRIC HEATER ACCESSORY

EHK-05E EHK-08E EHK-10E
EHK-15E EHK-20E



RECOGNIZE THIS SYMBOL AS AN INDICATION OF IMPORTANT SAFETY INFORMATION

WARNING

These instructions are intended as an aid to qualified licensed service personnel for proper installation, adjustment and operation of this unit. Read these instructions thoroughly before attempting installation or operation. Failure to follow these instructions may result in improper installation, adjustment, service or maintenance possibly resulting in fire, electrical shock, property damage, personal injury or death.

DO NOT DESTROY THIS MANUAL

Please read carefully and keep in a safe place for future reference by a serviceman.

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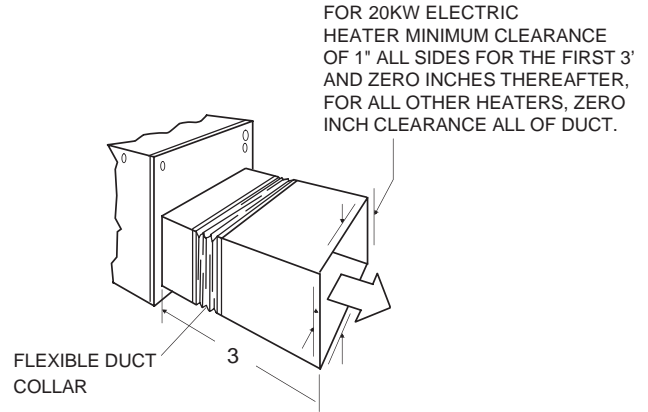


Fig.1 CLEARANCES

1. INSPECTION

As soon as unit is received, it should be inspected and noted for possible shipping damage during transportation. It is carrier's responsibility to cover the cost of shipping damage. Manufacturer or distributor will not accept the claims from dealer for any transportation damage.

2. IMPORTANT

The equipment described in this instruction should be installed by trained and experienced service personnel.

A separate power supply line must be provided for use with optional electric heater. DO NOT try to connect electric heater with rooftop unit to a single power supply line.

3. GENERAL

Electric heaters should be installed only in designated rooftop units. All electric heaters and their accessories are designed for applications used for cooling with electric heaters and heat pump with electric heaters. This instruction covers the installation of the following electric heaters:
 EHK-05E EHK-08E EHK-10E EHK-15E EHK-20E .

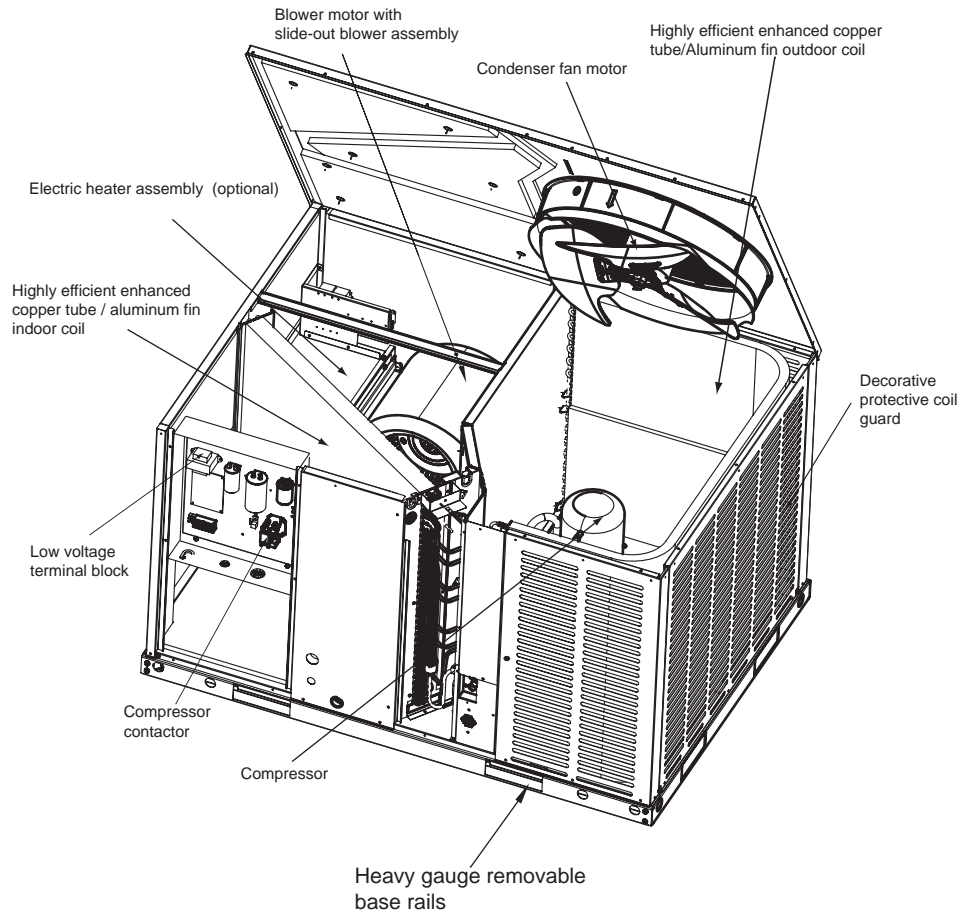
	NOTE
The electric heat accessory should be installed before the supply air duct is attached to the supply air opening flanges.	

Table 1: Unit Clearance

Direction	Distance (in.)	Direction	Distance (in.)
Top ¹	60	Right	12
Front	30	Left	12
Rear	18 ²	Bottom ³	0

- Duct clearance: 1 inch clearance for all sides of air supply duct.
1. Units must be installed outdoors. Over hanging structure or shrubs should not obscure condenser air discharge outlet.
 2. Units may be installed on combustible floors made from wood or class A, B or C roof covering materials.

4. COMPONENT LOCATION

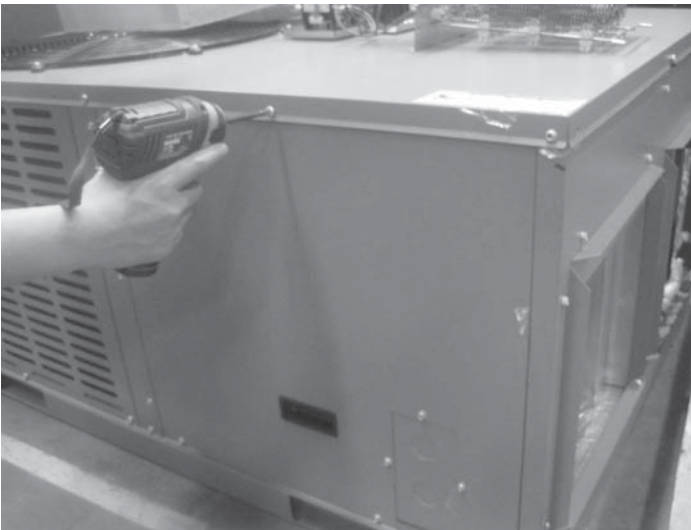


* The above figure for reference purpose only.

5. INSTALLATION

Install the electric heater accessory as follows:

FIG.A



1. Disconnect all electric power supplies to the unit.
2. Unscrew all screws around rear panel. Remove rear panel of the rooftop unit.(See Fig. A)

FIG.B



3. Remove EHK wiring panel by removing two screws. (See Fig. B)

FIG.C



4. From blower plenum, remove four screws and cover plate. (See Fig. C)

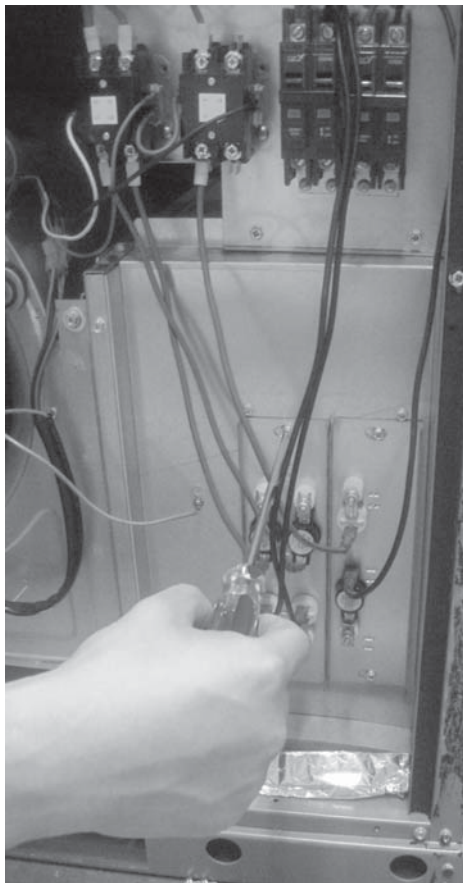
FIG.D



5. Slide electric heater into the slot.
Ensure heater support rod be placed into the
hole of blower compartment. (See Fig. D)

Place heater rod into the hole
of blower compartment

FIG.E



6. Carefully align the plate of EHK with the
holes of the blower plenum, use the screws
removed in step 4 and tighten the screws to
hold the EHK to the plenum. (See Fig. E)

FIG.F

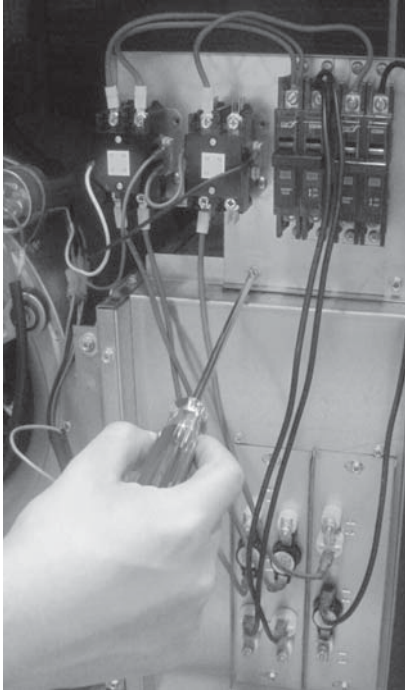
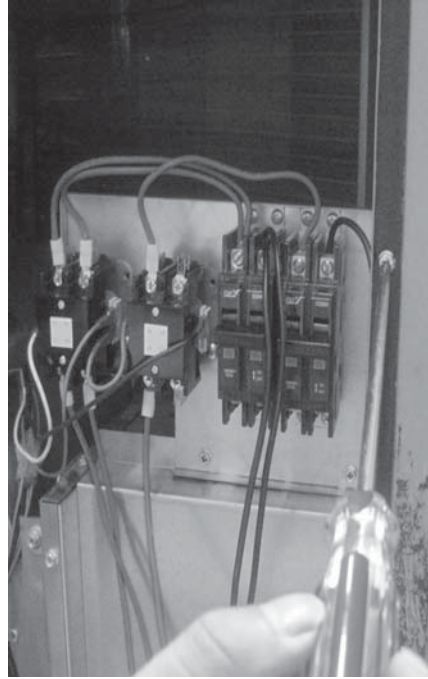
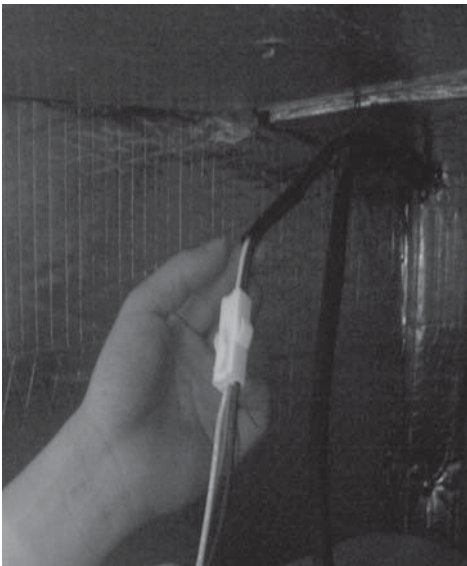


FIG.G



7. Secure EHK electric control installation board with four screws provided.
(See Fig. F & G)

FIG.H



8. Connect the connector of control signal wire to paired connector from the unit control board.(See Fig. H)

FIG.1



Knockout location

9. Remount the EHK wiring panel, remove the knockouts from the panel, let power supply wires go through the holes and connect power supply wires to the circuit breakers on EHK electric control installation board.
10. Carefully inspect all wire connections and secure any loose wiring.
11. Remount the rear panel.
12. Restore all power supply.



WARNING

FIRE, ELECTRICAL SHOCK, HAZARD

After connect all wires ,check all screws of breaker and make sure all screws are properly tight .

Failure to do so will result in breaker malfunction,fire,death, personal injure or property damage.

6. SPECIFICATION

Table 6-1: 13 SEER Heat Pump W/Without Electric Heat

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Electric Heat Option				MCA1 (Amps)	Max Fuse2/ Breaker3 Size (Amps)
		RLA	LRA	MCC			FLA	FLA	Model	kW		
024T (2.0)	208/230-1-60	9.7A	34.8A	15.1A	0.61A	1.71A	None	-	-	None	14.5	20
							EHK-05E	3.8/5	1	18.1/20.8	32.6/40.5	40/45
							EHK-08E	5.6/7.5	1	27.1/31.3	41.6/53.6	50/60
							EHK-10E	7.5/10	1	36.1/41.7	50.6/66.6	60/70
030T (2.5)	208/230-1-60	12.0A	59.93A	22.2A	1.0A	2.37A	None	-	-	None	18.4	20
							EHK-05E	3.8/5	1	18.1/20.8	40.1/44.4	50/50
							EHK-08E	5.6/7.5	1	27.1/31.3	52.3/57.5	60/60
							EHK-10E	7.5/10	1	36.1/41.7	63.5/70.5	70/80
036L (3.0)	208/230-1-60	14.0A	70A	23.8A	0.95A	2.84A	None	-	-	None	21.3	30
							EHK-05E	3.8/5	1	18.1/20.8	44.0/47.3	50/50
							EHK-08E	5.6/7.5	1	27.1/31.3	55.2/60.5	60/70
							EHK-10E	7.5/10	1	36.1/41.7	66.5/73.5	70/80
042L (3.5)	208/230-1-60	15.9A	90A	33A	1.68A	3.66A	EHK-15E	11.3/15	2	54.2/62.5	89.1/99.5	90/100
							None	-	-	None	25.3	30
							EHK-05E	3.8/5	1	18.1/20.8	47.9/51.3	50/60
							EHK-08E	5.6/7.5	1	27.1/31.3	59.1/64.4	60/70
							EHK-10E	7.5/10	1	36.1/41.7	70.4/77.4	80/80
048L (4.0)	208/230-1-60	19.0A	100A	37.7A	1.68A	3.66A	EHK-20E	15/20	2	72.2/83.3	115.5/129.4	125/150
							None	-	-	None	29.1	45
							EHK-05E	3.8/5	1	18.1/20.8	47.2/55.1	60/60
							EHK-08E	5.6/7.5	1	27.1/31.3	56.2/68.3	70/80
							EHK-10E	7.5/10	1	36.1/41.7	65.2/81.3	80/90
060L (5.0)	208/230-1-60	21.5A	125A	34.4A	1.68A	3.82A	EHK-15E	11.3/15	2	54.2/62.5	83.3/107.3	100/110
							None	-	-	None	32.4	50
							EHK-05E	3.8/5	1	18.1/20.8	50.5/58.4	70/70
							EHK-08E	5.6/7.5	1	27.1/31.3	59.5/71.5	80/80
							EHK-10E	7.5/10	1	36.1/41.7	68.5/84.5	90/90
							EHK-20E	15/20	2	72.2/83.3	104.6/136.5	125/150

024T/030T: GMCC compressor
036L/042L/048L/060L: LG compressor

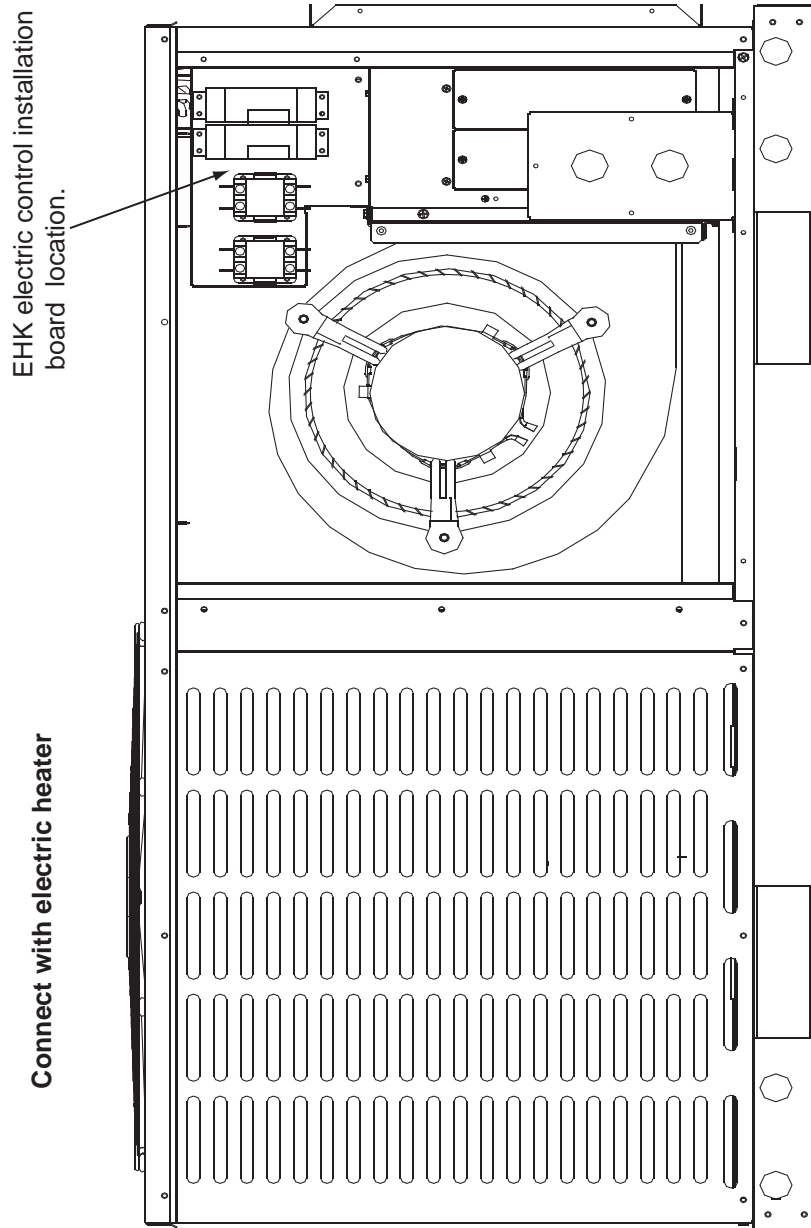
Table 6-2: 13 SEER Cooling only W/Without Electric Heat

Size (Tons)	Volt	Compressors (each)			OD Fan Motors (each)	Supply Blower Motor	Electric Heat Option				MCA1 (Amps)	Max Fuse2/ Breaker3 Size (Amps)
		RLA	LRA	MCC			FLA	FLA	Model	kW		
024T (2.0)	208/230-1-60	9.7A	34.8A	15.1A	0.61A	1.71A	None	-	-	None	14.5	20
							EHK-05E	3.8/5	1	18.1/20.8	24.8/28.2	25/30
							EHK-08E	5.6/7.5	1	27.1/31.3	36.1/41.3	40/45
							EHK-10E	7.5/10	1	36.1/41.7	47.3/54.3	50/60
036L (3.0)	208/230-1-60	14.0A	70A	23.8A	0.95A	2.84A	None	-	-	None	21.3	30
							EHK-05E	3.8/5	1	18.1/20.8	26.2/29.6	30/30
							EHK-08E	5.6/7.5	1	27.1/31.3	37.5/42.7	40/45
							EHK-10E	7.5/10	1	36.1/41.7	48.7/55.7	50/60
048L (4.0)	208/230-1-60	19.0A	100A	37.7A	1.68A	3.66A	EHK-15E	11.3/15	2	54.2/62.5	71.3/81.7	80/90
							None	-	-	None	29.1	45
							EHK-05E	3.8/5	1	18.1/20.8	27.2/30.6	30/40
							EHK-08E	5.6/7.5	1	27.1/31.3	38.5/43.7	40/45
							EHK-10E	7.5/10	1	36.1/41.7	49.7/56.7	50/60
060L (5.0)	208/230-1-60	21.5A	125A	34.4A	1.68A	3.82A	EHK-20E	15/20	2	72.2/83.3	94.9/108.7	100/110
							None	-	-	None	32.4	50
							EHK-05E	3.8/5	1	18.1/20.8	27.4/30.8	30/40
							EHK-08E	5.6/7.5	1	27.1/31.3	38.7/43.9	40/45
							EHK-10E	7.5/10	1	36.1/41.7	49.9/56.9	50/60
							EHK-15E	11.3/15	2	54.2/62.5	75.6/82.9	80/90
							EHK-20E	15/20	2	72.2/83.3	95.1/108.9	100/110

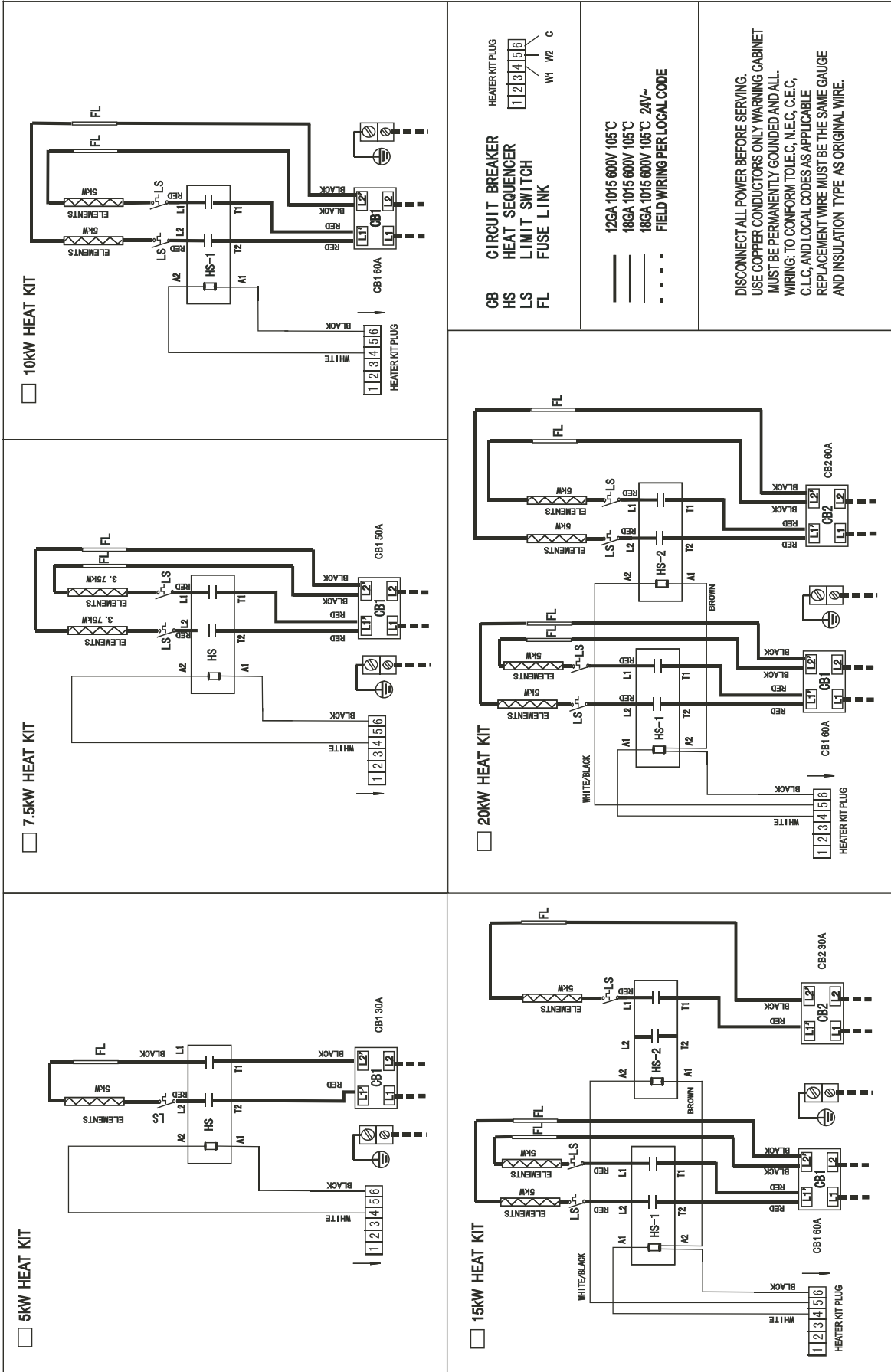
024T: GMCC compressor
036L/048L/060L: LG compressor

1. Minimum Circuit Ampacity.
2. Maximum Over Current Protection per Standard UL 1995.
3. Fuse or HACR circuit breaker size installed at factory or field installed.

7. ELECTRIC CONTROL DIAGRAM



8. ELECTRIC DIAGRAM(208/230-1-60)



MD12IU-024CW