

CONNECTION DIAGRAM

LEGEND

—	FACTORY POWER WIRING	CHS	CRANKCASE HEATER SWITCH
—	FACTORY CONTROL WIRING	COMP	COMPRESSOR
---	FIELD CONTROL WIRING	CS	CONTACTOR
---	FIELD POWER WIRING	CTD	COMP HIGH CAP SOLENOID
—	CONDUCTOR ON CIRCUIT BOARD	CTD	COMPRESSOR TIME DELAY
○	COMPONENT CONNECTION	DFT	DEFROST THERMOSTAT
○	1/4-INCH QUICK CONNECT TERMINALS	DR	DEFROST RELAY AND CIRCUITRY
⌵	FIELD SPLICE	DTS	DISCHARGE TEMPERATURE SWITCH
•	JUNCTION	HPS	HIGH PRESSURE SWITCH
⌵	PLUG RECEPTACLE	LPS	LOW PRESSURE SWITCH
AUXR	AUXILIARY HEAT RELAY	OFM	OUTDOOR FAN MOTOR
CAP	CAPACITOR (DUAL RUN)	RVS	REVERSING VALVE SOLENOID
CB	CIRCUIT BOARD	RVSR	REVERSING VALVE SOLENOID
CH	CRANKCASE HEATER	*SC	RELAY START CAPACITOR
		*SR	START RELAY
		*ST	START THERMISTOR
		*UTS	UNLOADER TEMP SWITCH

*** MAY BE FACTORY OR FIELD INSTALLED**

SCHEMATIC DIAGRAM (LADDER FORM)

DIP SWITCH SETTINGS

30 MINUTES 	60 MINUTES 	90 MINUTES 	120 MINUTES 	ON
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FIELD SELECTABLE OPTIONS FOR TIME PERIOD BETWEEN DEFROST CYCLES (MINUTES)
 SPEED UP JUMPED TEST PINS (USE METAL OBJECT), FIELD SPEED-UP CYCLE
 1) MOMENTARILY SHORT PINS AND RELEASE TO BYPASS COMPRESSOR OFF DELAY.
 2) SHORT FOR 5 SEC. AND RELEASE FOR FORCED DEFROST.
 3) PERMANENT SHORT WILL BE IGNORED.
 DEFROST WILL TERMINATE IN 30 SEC. IF DFT OPEN.
 DEFROST WILL TERMINATE NORMALLY IF DFT IS CLOSED.

NOTE

THIS DEFROST CONTROL BOARD CONTAINS A FIVE MINUTE SHORT CYCLE PROTECTOR. A FIVE MINUTE DELAY WILL OCCUR BETWEEN COMPRESSOR OFF/ON CYCLES.

NOTES:

- Compressor and fan motor furnished with inherent thermal protection.
- To be wired in accordance with national electric code (N.E.C.) and local codes.
- N.E.C. Class 2, 24 V circuit, min. 40 VA required, 60 VA on units installed with LLS.
- Use copper conductors only from disconnect to unit.
- Must use thermostat and sub-base as stated in pre-sale literature.
- If indoor section has a transformer with a grounded secondary, connect the grounded side to "C" on the circuit board.
- If any of the original wire, as supplied, must be replaced, use the same or equivalent wire.
- Check all electrical connections inside control box for tightness.
- Do not attempt to operate unit until service valves have been opened.
- Use conductors suitable for at least 75°C (167°F).

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Fig. 1 – Wiring Diagram — Models CH17NA024-060, 208/230-1

