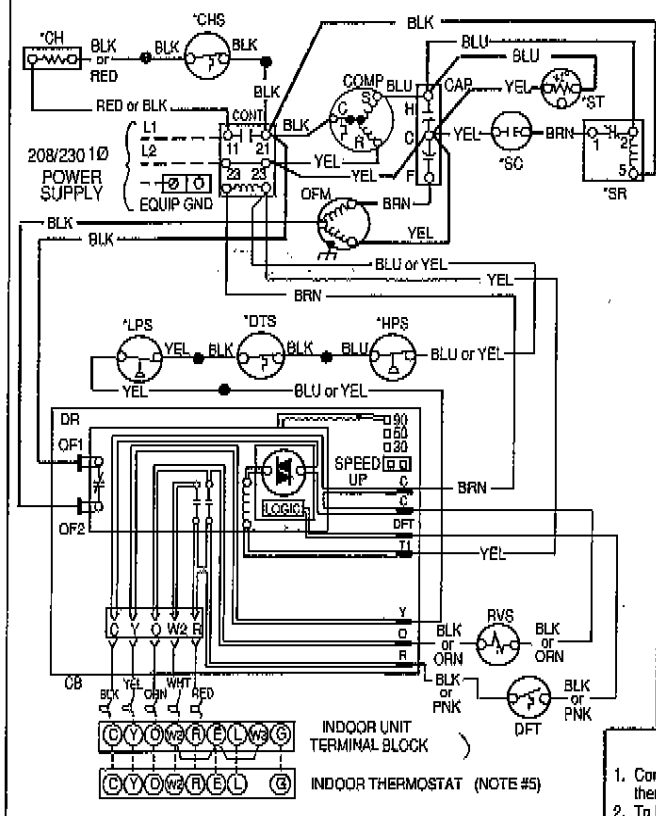
CONNECTION DIAGRAM

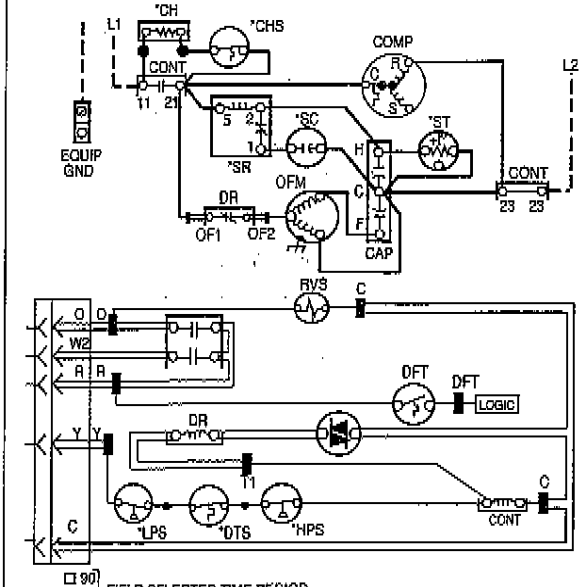


-LEGEND-

	FACTORY POWER WIRING
	FIELD POWER WIRING
	FACTORY CONTROL WIRING
	FIELD CONTROL WIRING
	CONDUCTOR ON CIRCUIT BOARD
	COMPONENT CONNECTION
	1/4-INCH QUICK CONNECT TERMINALS
	FIELD SPLICE
	JUNCTION
CAP	CAPACITOR (DUAL RUN)
*CH	CRANKCASE HEATER
*CHS	CRANKCASE HEATER SWITCH
COMP	COMPRESSOR
CONT	CONTACTOR
CB	CIRCUIT BOARD
DFT	DEFROST THERMOSTAT
DR	DEFROST RELAY AND CIRCUITRY
*DTS	DISCHARGE TEMP. SWITCH
*HPS	HIGH PRESSURE SWITCH
*LPS	LOW PRESSURE SWITCH
OFM	OUTDOOR FAN MOTOR
RVS	REVERSING VALVE SOLENOID
*SC	START CAPACITOR
*SR	START RELAY
*ST	START THERMISTOR

* MAY BE FACTORY OR FIELD INSTALLED.

SCHEMATIC DIAGRAM (LADDER FORM)



□ 90 □ 50 □ 30 FIELD SELECTED TIME PERIOD BETWEEN DEFROST CYCLES (MINUTES)

SPEED UP □□ JUMPERED TEST PINS (USE METAL OBJECT), FIELD SPEED-UP CYCLE

HEAT CYCLE: 90 MIN. ACCELERATED TO 21 SEC.
50 MIN. ACCELERATED TO 12 SEC.
30 MIN. ACCELERATED TO 7 SEC.

DEFROST CYCLE: 10 MIN. ACCELERATED TO 2 SEC.

-NOTES-

1. Compressor and fan motor furnished with inherent thermal protection.
2. To be wired in accordance with National Electric Code (N.E.C.) and local codes.
3. N.E.C. class 2, 24 V circuit, min. 40 VA required.
4. Use copper conductors only, from disconect to unit.
5. Must use thermostat and sub-base as stated in pre-sale literature.
6. If indoor section has a transformer with a grounded secondary, connect the grounded side to "C" on the circuit board..
7. If any of the original wire, as supplied, must be replaced, use the same or equivalent wire.
8. Check all electrical connections inside control box for tightness.
9. Do not attempt to operate unit until service valves have been opened.
10. When DTS, LPS and HPS are not required, a jumper will be installed between Y and T1 on the defrost board.
11. Use conductors suitable for at least 75°C (167°F).

⚠ CAUTION

1. Compressor damage may occur if system is over charged.
2. This unit is factory charged with R-22 in accordance with the amount shown on the rating plate. The charge is adequate for most systems using matched coils and tubing not over 15 feet long. The best performance will be achieved when the unit operates with a suction gas superheat at the compressor inlet of 5 °F at normal rating conditions of the air conditioning and refrigeration institute (ARI). This chart may be used to approximate the charge if ARI rating conditions cannot be obtained. ARI rating conditions are equivalent to DOE test "A" conditions. See product data literature for required indoor air flow rates and for use of line lengths over 15 Ft.
3. Carefully relieve refrigerant pressure within this unit before final disposal.

321070-401 REV. G

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Fig. 2—PH10JA018-A/B, 024-A/B, 030-A, 036-B 208-230v, 1 Phase, 60 Hertz