



**MODELS  
P24A1, P30A1, P36A3,  
P48A2, P60A2**

**PACKAGED AIR CONDITIONER  
INSTALLATION INSTRUCTIONS**

**FOR RESIDENTIAL AND COMMERCIAL  
HEATING / COOLING APPLICATIONS**

**BARD MANUFACTURING CO. • BRYAN, OHIO 43506**

*Dependable quality home equipment . . . since 1914*

# SPECIFICATIONS • PACKAGED AIR CONDITIONERS

MODEL	P24A1	P30A1	P36A3	P36A3(3)	P48A2	P48A2(3)	P60A2	P60A2(3)
Cooling Capacity BTU	23,000	28,000	38,000	38,000	48,000	48,000	56,000	56,000
Heating Capacity BTU	SEE ELECTRIC HEAT TABLES 1 AND 2							
Electrical Rating 60 Hz	230-1	230-1	230/208-1	230/208-3	230/208-1	230/208-3	230/208-1	230/208-3
Cooling Watts	3200	4200	5200	5100	6200	6000	7000	6800
Operating Voltage	197-253V	207-253V	197-253V	187-253V	197-253V	187-253V	197-253V	187-253V
*Field Wire Supply	2 No 12 AWG	2 No 10 AWG	2 No 8 AWG	3 No 10 AWG	2 No 6 AWG	3 No 10 AWG	2 No 6 AWG	3 No 8 AWG
Delay Fuse/Max Amps	30	40	60	35	60	40	60	50
Total Unit Amps	16.3	20.6	30.9	20.4	34.5	22.0	41.9	28.4
<b>Compressor-Circuit A</b>								
Volts	230/208	230	230/208	230/208	230/208	* 230/200	230/208	230/200
Name Plate Amps	12.2	16.5	24.0	13.5	28	15.5	34.0	20.5
Lock Rotor Amps	64	76	110	75	140	109	147	138
<b>Fan Motor &amp; Condenser</b>								
Fan Motor-HP/RPM	1/2/1075	1/2/1075	1/5/1075	1/5/1075	1/3/825	1/3/825	1/2/1075	1/2/1075
Fan Motor-Amps	4.1	4.1	3.6	3.6	2.6	2.6	4.0	4.0
Fan Dia./CFM	18"/1600	18"/1600	20"/2000	20"/2000	24"/2900	24"/2900	24"/3900	24"/3900
Face Area Sq. Ft./Row/Fins per in	3.75/2/15	3.75/2/15	5.04/2/18	5.04/2/18	7.7/2/12	7.7/2/12	7.7/2/15	7.7/2/15
Condenser Air Flow	Push	Push	Push	Push	Push	Push	Push	Push
<b>Motor &amp; Evaporator</b>								
Blower Motor-HP/RPM	Common	Common	1/3/1075	1/3/1075	1/2/1075	1/2/1075	1/2/1075	1/2/1075
Blower Motor-Amps	W/Fan	W/Fan	3.3	3.3	3.9	3.9	3.9	3.9
CFM Cooling w/Filter (Rated)	860 @ 25"	900 @ 10"	1300 @ 15"	1300 @ 15"	1760 @ 30"	1760 @ 30"	1950 @ 20"	1950 @ 20"
Face Area Sq. Ft./Row/Fins per in	2.08/3/12	2.08/3/12	3.21/3/13	3.21/3/12	4.03/3/12	4.03/3/12	3.96/4/14	3.96/4/14
Shipping Weight Lbs.	300	300	350	350	470	470	495	495

\*Basic Model only. Does not include electric heaters. 60°C copper

## ELECTRIC HEAT TABLE NO. 2

MODEL	240V	
	BTUH	AMP
5KW	17,065	20.8
9KW-3ph	30,600	21.7
10KW	34,130	41.7
15KW	51,195	62.5
15KW-3ph	51,195	36.2
18KW-3ph	61,200	43.4
20KW	68,260	83.3

**IMPORTANT:** The AMP values listed in this Table No. 2 are for electric heating elements only. CIRCUIT B — Some units permit the electric heating element to be wired on the compressor Circuit A.

## INDOOR BLOWER PERFORMANCE

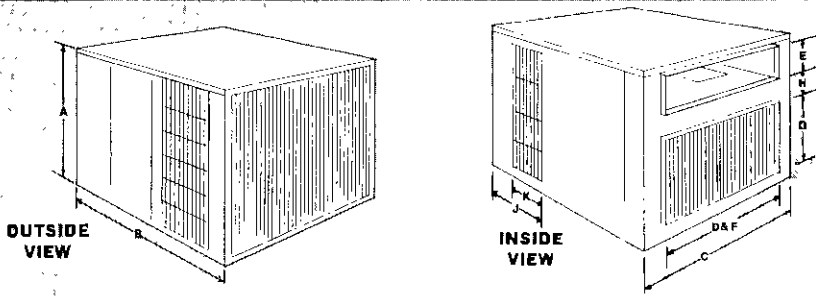
### CFM-DRY COIL WITH FILTER

E.S.P. in H <sub>2</sub> O	P24A1	P30A1	P36A3	P48A2	P60A2
0	975	1500	2350	2350	2350
10	925	1450	2155	2160	2160
20	870	1400	1980	2000	2000
30	820	1350	1800	1820	1820
40	765	1300	1630	1640	1640
50		1250	1460		

## ELECTRIC HEAT TABLE NO. 1

MODEL	P24A1	P30A1	P36A3	P36A3(3)	P48A2	P48A2(3)	P60A2	P60A2(3)
Standard KW	10KW	10KW	10KW	9KW	10KW	9KW	10KW	9KW
Max. Installed KW	10KW	10KW	15KW*	15KW	20KW*	18KW	20KW*	18KW

\*Internal Fusing Built In



MODEL	NOMINAL CABINET DIMENSIONS (Inches)					DUCT OPENINGS (Inches)				
	A	B	C	H	J	K	D	E	F	G
P24A1	23 3/4	40	32	1 7/8	21 1/8	11	24	6	24	12
P30A1	23 3/4	40	32	1 7/8	21 1/8	11	24	6	24	12
P36A3	24 1/4	42-3/16	38 1/8	1 7/8	20 7/8	11 1/2	33	6	33	14
P48A2	31 1/4	50	42	1 3/4	22 7/8	16 1/4	38	10	38	16
P60A2	31 1/4	50	42	1 3/4	22 7/8	16 1/4	38	10	38	16



**IMPORTANT:**  
While the above data is presented as a guide, it is important to electrically connect, properly size fuses and conductor wires in accordance with the National Electrical Code and all existing local codes.

**Underwriters' listed for outdoor installation.**

*Specifications subject to change without notice.*

### LIMITED WARRANTY for Air Conditioner System Products

Bard warrants for one year from date of original purchase in U.S., replacement or repair of parts found defective as to workmanship or material under normal use and when parts are returned through Bard's dealer-distributor organization.

Bard warrants for five years from date of original purchase in U.S., the motor compressor, F.O.B. Bryan, Ohio.

Owner is responsible for any labor charges, local cartage, replacement of gaskets, filters, rubber or plastic parts, drier, strainer, refrigerant charge, installation materials and installation in accordance with manufacturer's instructions and local ordinances and codes, where applicable. Owner is also responsible for normal maintenance service (cleaning of coils, water drains, motor

lubrication) and normal deterioration of appearance items due to wear or exposure.

Any product subjected to accident, misuse, negligence, abuse, detachment of serial plate, improper installation and misapplication or alteration, shall void the warranty and Bard shall not be liable for damages related thereto.

### OPTIONAL FOUR-YEAR PARTS & LABOR WARRANTY

In addition to the normal one-year warranty, as outlined above, the owner may purchase an optional parts and labor warranty which provides an additional four years coverage of service and maintenance after the Limited Warranty has expired. The installation of the heat pump system must be certified by Bard Manufacturing Company as its authorized representative in order to qualify.

APPLICATION AND INSTALLATION INSTRUCTIONS  
FOR SINGLE PACKAGE AIR CONDITIONERS

IMPORTANT

The equipment covered in this manual is to be installed by trained, experienced service and installation technicians. Any heat pump is more critical of proper operating charge and an adequate duct system than a straight air conditioning unit. All duct work, supply and return, must be properly sized for the design air flow requirement of the equipment. NESCA is an excellent guide to proper sizing. All duct work or portions thereof not in the conditioned space should be properly insulated in order to both conserve energy and prevent condensation or moisture damage.

SHIPPING DAMAGE

Upon receipt of equipment, the carton should be checked for external signs of shipping damage. If damage is found, the receiving party must contact the last carrier immediately, preferably in writing, requesting inspection by the carrier's agent.

GENERAL

The refrigerant system is completely assembled and charged. All internal wiring is complete.

The unit is designed for use with or without duct work. Flanges are provided for attaching the supply and return ducts.

These instructions explain the recommended method to install the air cooled self-contained unit and the electrical wiring connections to the unit.

These instructions and any instructions packaged with any separate equipment required to make up the entire air conditioning system should be carefully read before beginning the installation. Note particularly "Starting Procedure" and any tags and/or labels attached to the equipment.

While these instructions are intended as a general recommended guide, they do not supersede any national and/or local codes in any way. Authorities having jurisdiction should be consulted before the installation is made.

PRESSURE SERVICE PORTS

High and low pressure service ports are installed on all units so that the system operating pressures can be observed. Pressure curves can be found later in the manual covering all models on both cooling and heating cycles. It is imperative to match the correct pressure curve to the unit by model number.

LOCATION

The unit must be located outside, or in a well ventilated area. It must not be in the space being heated or cooled. A sound absorbing material should be considered if the unit is to be installed in such a position or location that might cause transmission of sound or vibration to the living area or adjacent buildings.

TYPICAL INSTALLATIONS

1. Roof-Mounted - The unit is mounted on a sturdy base on the roof of the building. Return air to the unit is brought through a single return grille (grilles with built-in filters are best, since they enable easy access for filter changing). Return air ducts are attached to the lower section of the front panel. Supply air is brought from the unit to attic duct work or to a furred down hall. Supply air duct is attached to the top of the front panel. CAUTION: All outdoor duct work must be thoroughly insulated and weatherproofed. All attic duct work must be thoroughly insulated. Two inch thick insulation with suitable vapor barrier is recommended for both outdoor and attic runs. In roof-top installation, as in all installations, the heat pump must be level from side to side. However, the unit should have a pitch along the length to assure complete external drainage of precipitation and of defrost condensate.
2. Crawl Space - Duct work installed in crawl space must be well insulated and provided with a vapor barrier. In addition, the crawl space must be thoroughly ventilated and provided with a good vapor barrier as a ground cover. It is most desirable to install the unit outdoors, rather than inside the crawl space, so that it will be readily accessible for service. In addition, it is necessary to dispose of the condensate from the outdoor coil on the heating cycle, and this is virtually impossible with the unit installed inside the crawl space.
3. Slab Mounted at Ground Level - This type installation is ideal for homes with slab floor construction, where a roof-mounted unit is not desired. The supply and return duct work can be run through a furred closet space.
4. Thru-The-Wall - This type installation requires a suitable framework to be fabricated, capable of withstanding the unit weight. Normally the unit will be installed so as to minimize supply and return duct work.
5. Other Installations - Many other installations are possible with the packaged air conditioner. No matter what the installation, always consider the following facts:
  - a. Insure that the discharge air is not obstructed in any way so as to cause operation difficulties.
  - b. The indoor coil drain pan is equipped with a coupling that must be piped through a condensate drain trap to a suitable drain.
  - c. Always mount the unit in such a position that it may be easily reached for servicing and maintenance.
  - d. Insure that the unit is clear so that proper air flow over the outdoor coil will be maintained.

## WIRING - MAIN POWER

Refer to the unit rating plate for wiring sizing information and maximum fuse size. Each outdoor unit is marked with a "Minimum Circuit Ampacity." This means that the field wiring used must be sized to carry that amount of current. Depending on the installed Kw of electric heat, there may be two field power circuits required. If this is the case, the unit serial plate will so indicate. Some models are suitable only for connection with copper wire, while others can be wired with either copper or aluminum wire. Each unit and/or wiring diagram will be marked "Use Copper Conductors Only" or "Use Copper or Aluminum Conductors." These instructions MUST BE adhered to. Refer to the National Electrical Code for complete current carrying capacity data on the various insulation grades of wiring material.

The electrical specifications on page 18 lists fuse and wire sizes (60°F copper) for all models, including the most commonly used heater sizes. Also shown are the number of field power circuits required for the various models with heaters.

The unit rating plate lists a "Maximum Time Delay Fuse" that is to be used with the equipment. The correct size fuse must be used for proper circuit protection and also to assure that there will be no nuisance tripping due to the momentary high starting current of the compressor motor.

## WIRING - CONTROL CIRCUIT

All units are provided with a 24 volt terminal board which is marked C, G, R, Y, W1 and W2. DO NOT wire to terminal C. This will cause transformer burnout. Refer to specific unit wiring diagram for details.

## SEQUENCE OF OPERATION

**Cooling** - R-Y at thermostat pulls in the compressor contactor starting the compressor and outdoor fan. The same R-Y also feeds G, which pulls in the fan relay for blower operation. The reversing valve is not energized, so the system is in the cooling cycle.

**Heating** - R-W1 (and W2 on higher Kw models) energize the installed electric heat contactors. The indoor motor circuit is completed through the normally closed contact on the blower relay when the first electric heat contactor pulls in.

In most cases, a two-stage heating thermostat is desirable whenever there are more than one electric heat contactors. There is a nominal 1-1/2 degree differential between stages of the thermostat to allow better operating efficiency.

## FILTERS

PRIOR THOUGHT SHOULD BE GIVEN TO RETURN AIR LOCATION AND PLACEMENT OF THE AIR FILTER(S). The air filter(s) must be of adequate size and readily accessible to the homeowner. Filters must be adequate in size and properly maintained for proper operation. If this is not done, excessive energy use and multiple service problems will result. IT IS IMPOSSIBLE TO OVERSIZE AIR FILTERS. Generous sizing will result in cleaner air and coils, as well as lower operating costs and extend time between required changes. The following is minimum recommended filter sizes, suggested total static and expected air flows with dry coil.

MODEL	P24A1	P30A1	P36A3	P48A2	P60A2
Total Static	.25"	.10"	.15"	.30"	.20"
CFM	860	900	1300	1760	1950
Air Filter	2.18 sq.ft. 314 sq.in.	2.25 sq.ft. 324 sq.in.	3.56 sq.ft. 513 sq.in.	4.5 sq.ft. 648 sq.in.	5 sq.ft. 720 sq.in.
Approx. Size Example	16x20	16x20	20x25	(2) 16x20	(2) 20x20

INSTALLER NOTE: Optimum unit performance will occur with a refrigerant charge resulting in a suction line temperature (near the compressor) of 53°F to 58°F with 95°F outdoor temperature and 80°F dry bulb/67°F wet bulb (50% R.H.) indoor temperatures and rated air flow across the indoor coil.



# ROOF HOOD ACCESSORY FOR SINGLE PACKAGE HEAT Pumps AND AIR CONDITIONERS

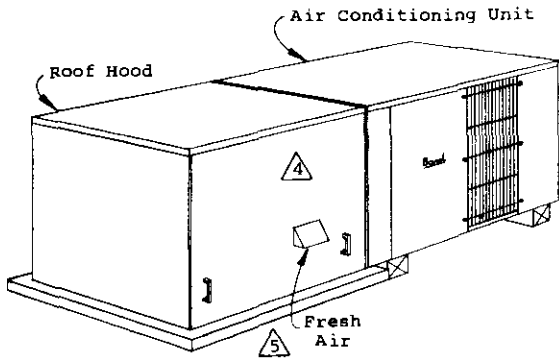


FIG. 1 - TYPICAL ROOFTOP INSTALLATION

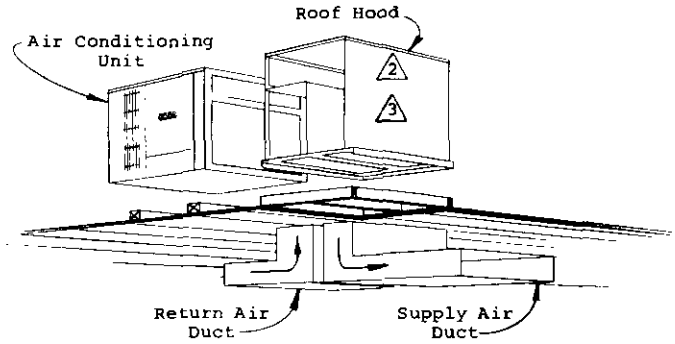


FIG. 2 - TYPICAL DUCT INSTALLATION

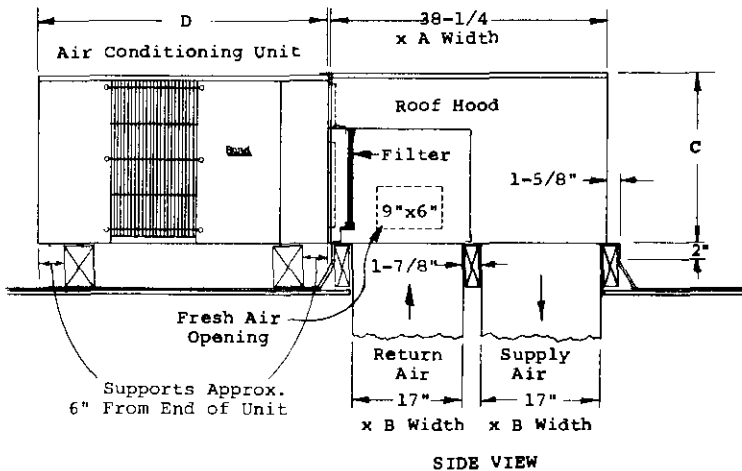


FIG. 3 - UNIT AND ROOF HOOD DETAILS

UNIT DIMENSIONS

MODEL	A	B	C	D	1" Filter
P24A1	32	31-1/2	23-1/8	40	15 x 30-3/8
PH24	32	31-1/2	23-1/8	40	15 x 30-5/8
P30A1	32	31-1/2	23-1/8	40	15 x 30-5/8
PH30	32	31-1/2	23-1/8	40	15 x 30-5/8
PH31	38-1/8	37-1/2	24	42-3/16	(1) 16x16 &
P36A3	38-1/8	37-1/2	24	42-3/16	(1) 16x20
PH36-1	38-1/8	37-1/2	24	42-3/16	
P48A2	42	41-1/2	31-1/8	50	(2) 16 x 20
PH48-1	42	41-1/2	31-1/8	50	(2) 16 x 20
P60A2	42	41-1/2	31-1/8	50	(2) 16 x 20
PH60-1	42	41-1/2	31-1/8	50	(2) 16 x 20

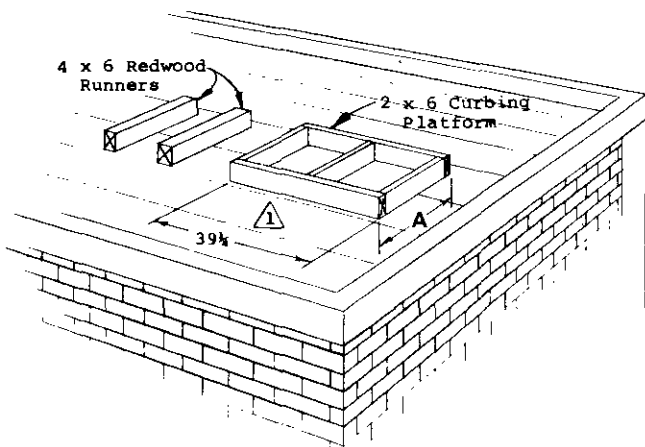
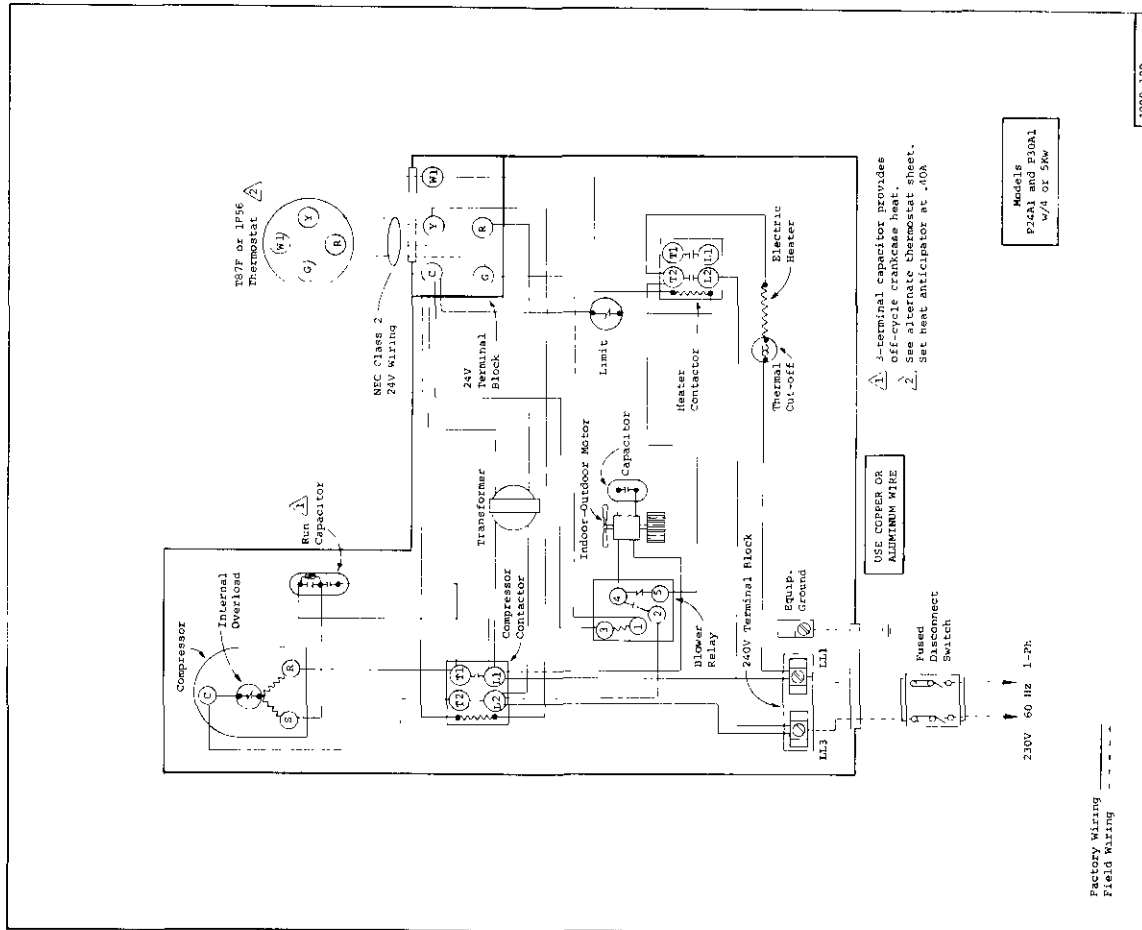
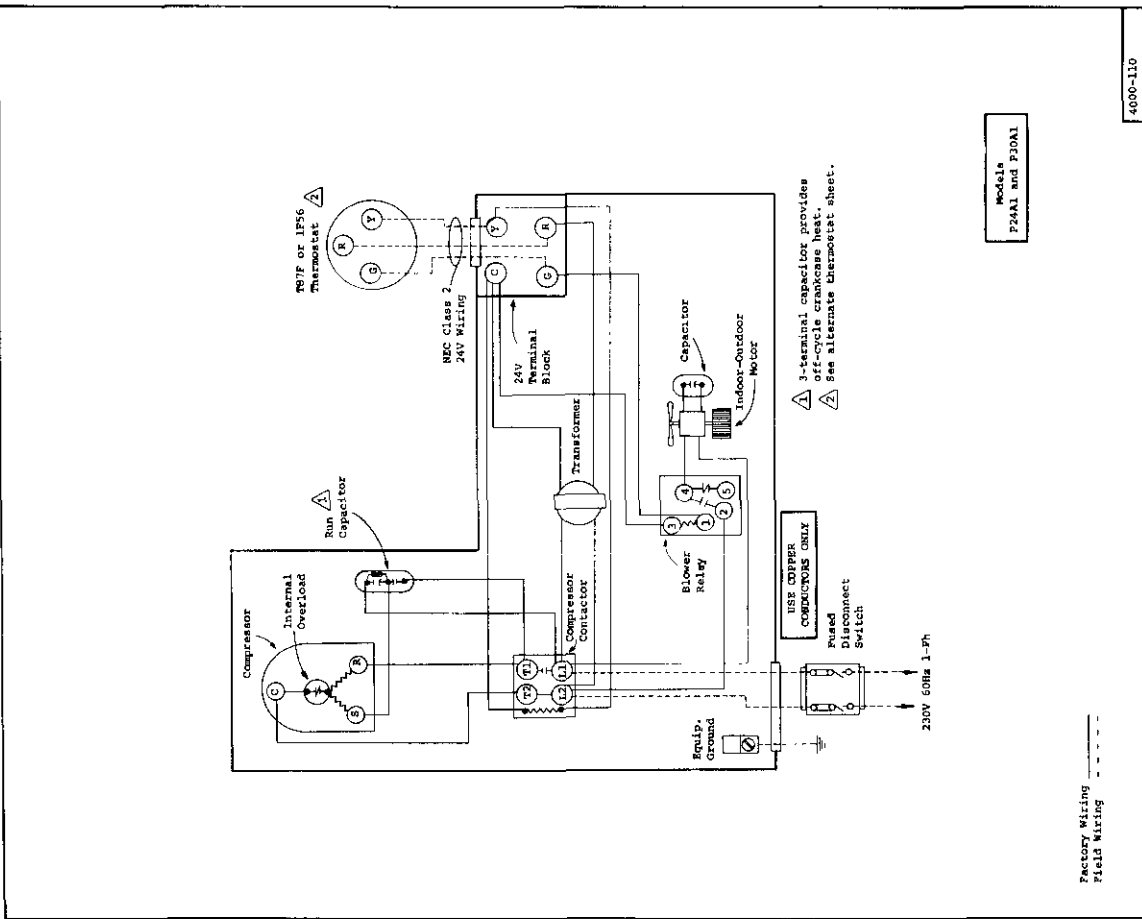
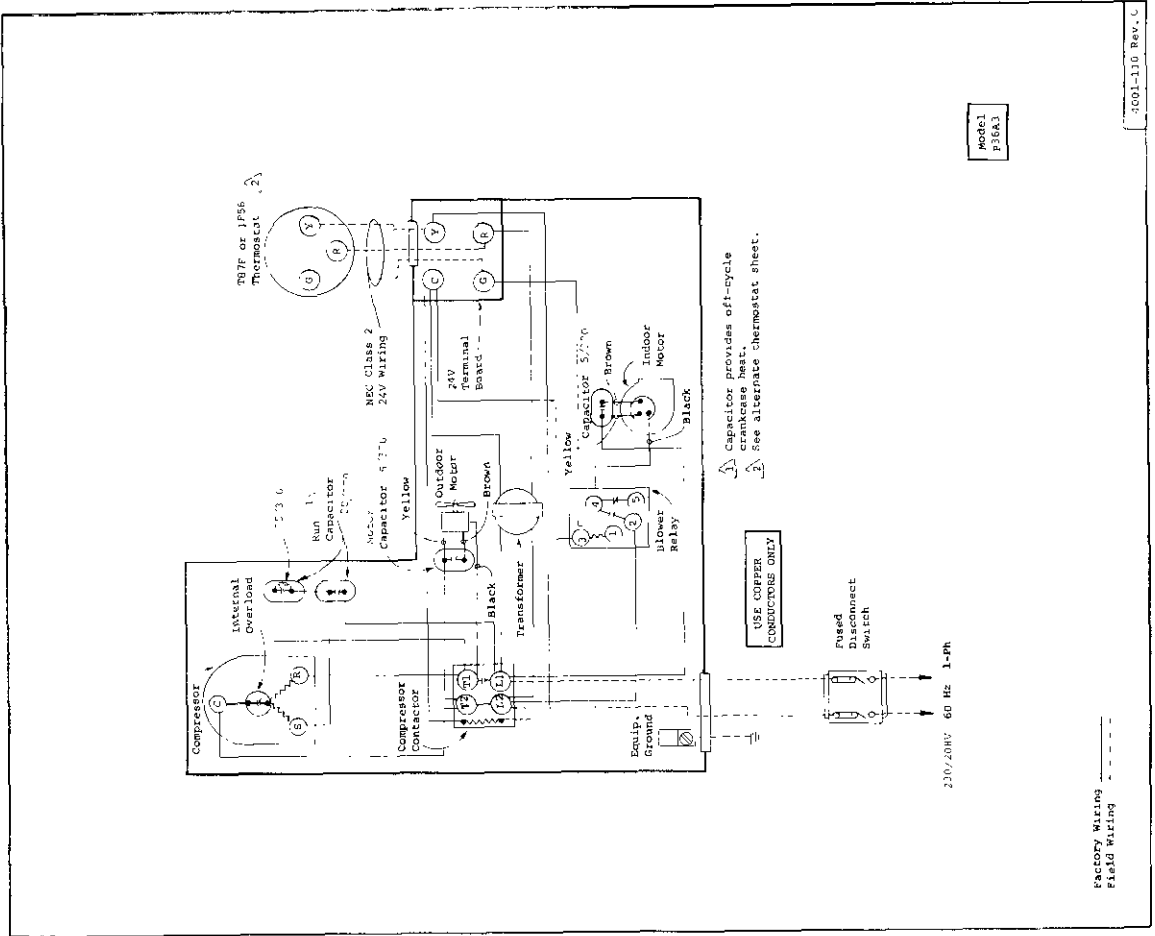
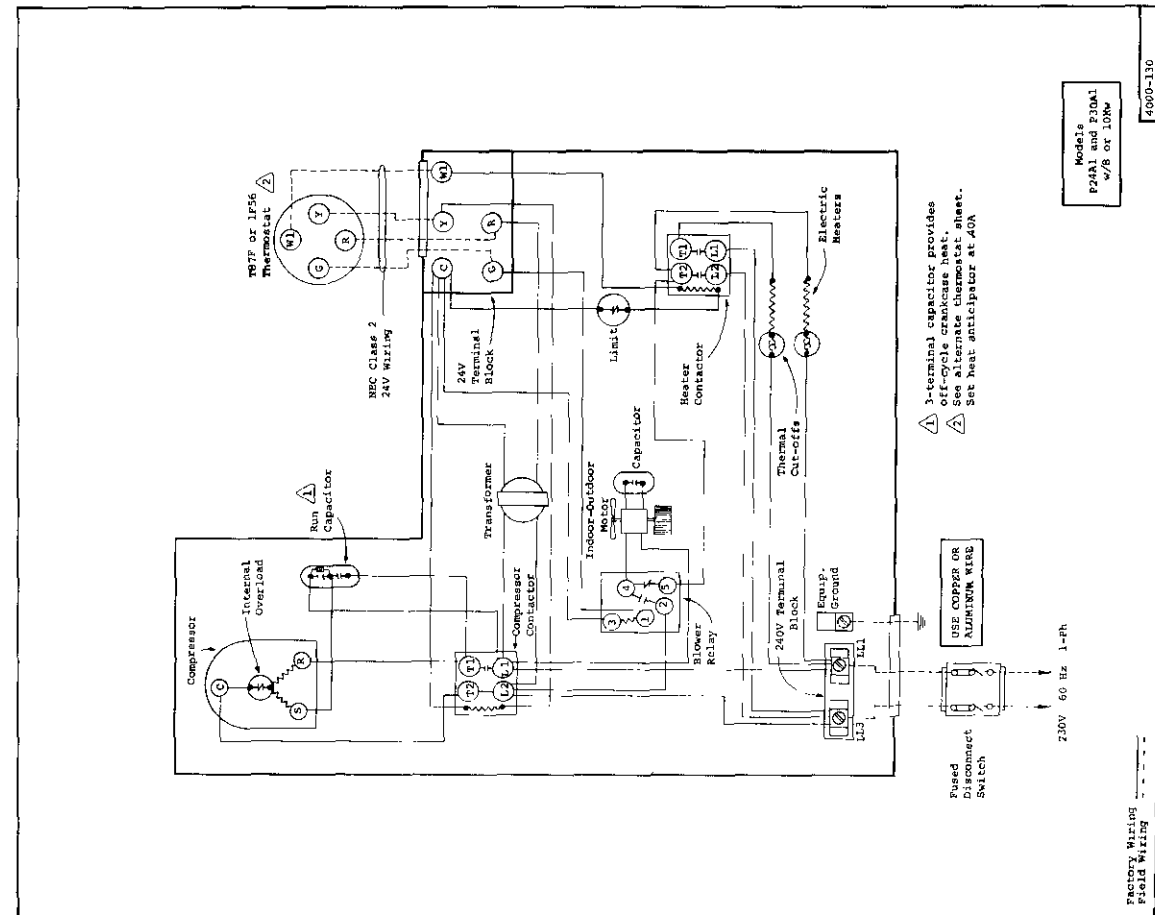


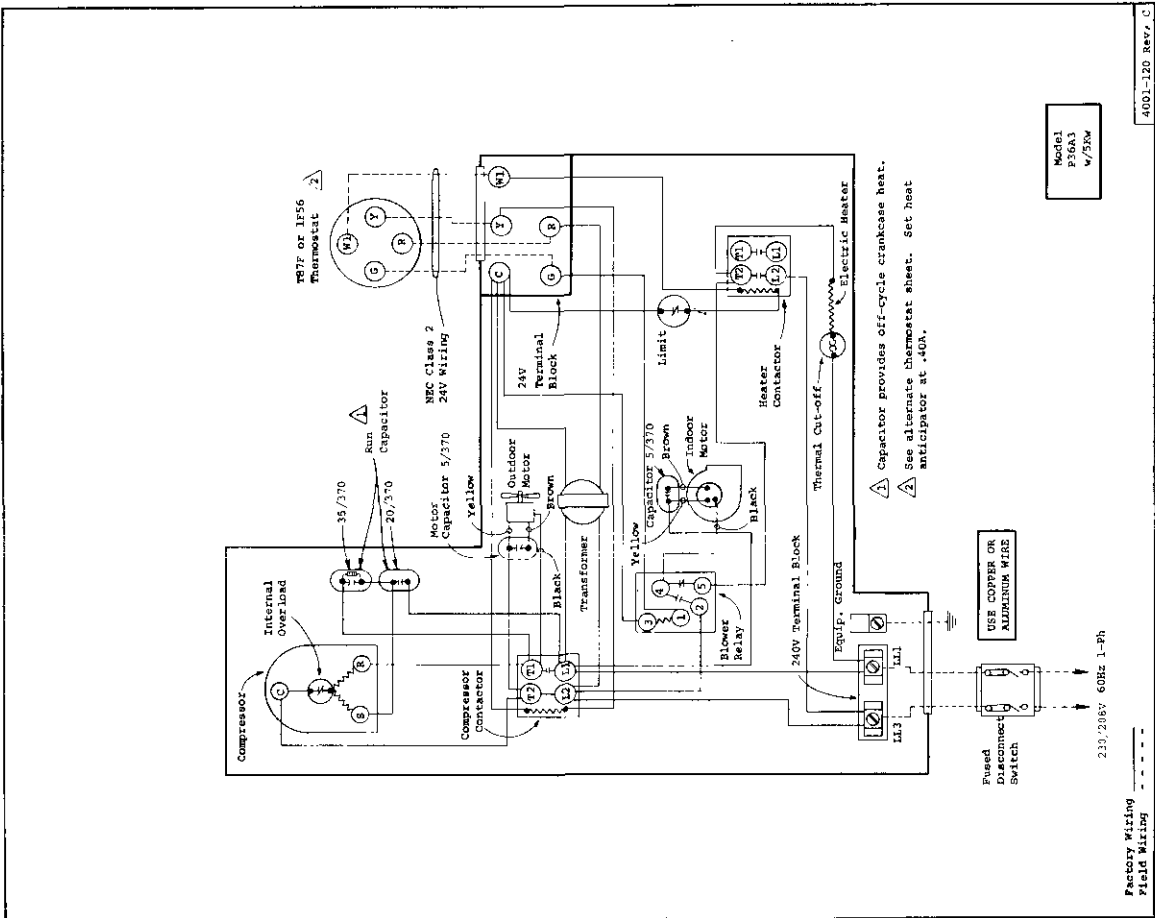
FIG. 4 - CURBING DETAILS (FIELD FABRICATED)

MODEL	A
P24A1	34-7/8
PH24	34-7/8
P30A1	34-7/8
PH30	34-7/8
PH31	41
P36A3	41
PH36-1	41
P48A2	44-7/8
PH48-1	44-7/8
P60A2	44-7/8
PH60-1	44-7/8

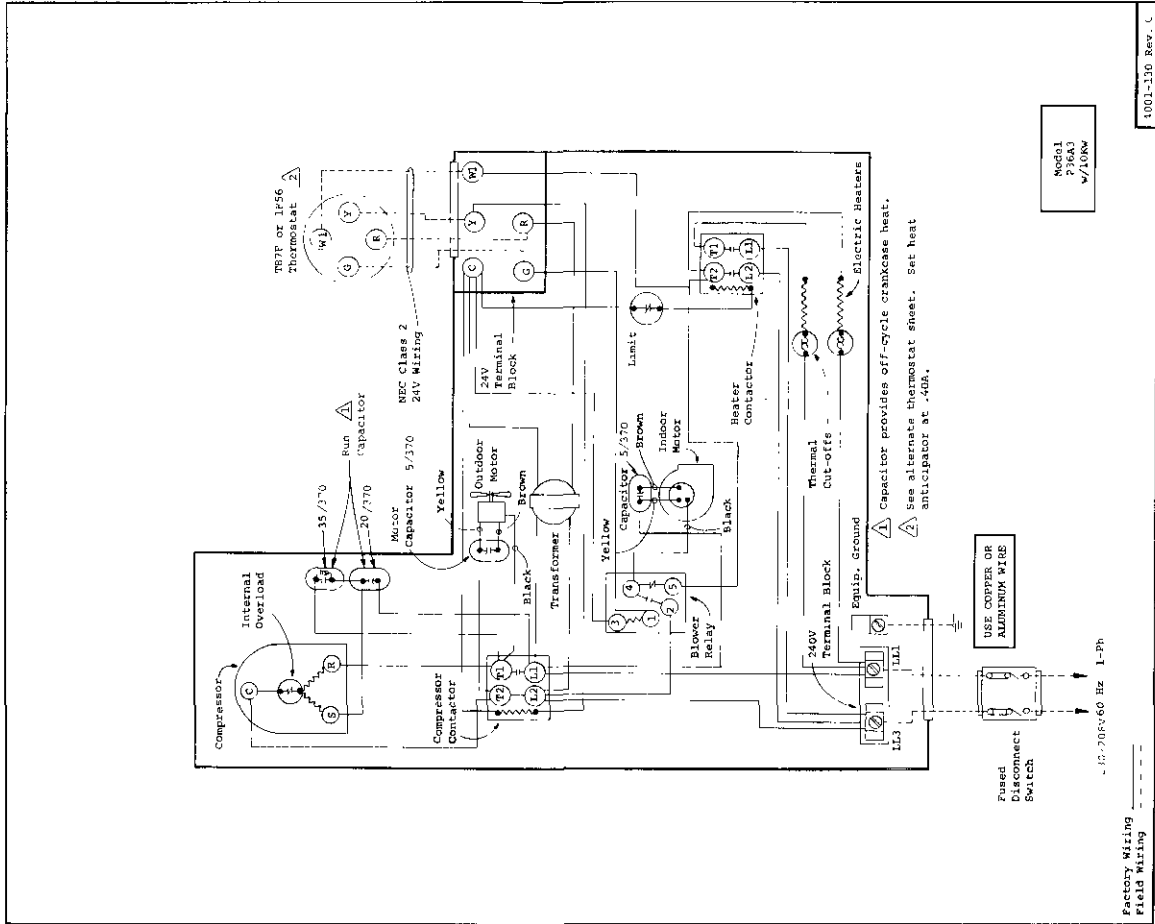
- 1 A separate metal flashing should be installed around wood curbing. Caulk and seal all joints and weather roof.
- 2 Galvanized cabinets painted to match basic unit design - heavy insulation - built-in filter included.
- 3 Roof hood to be assembled in field. (See FIG. 5 on back side)
- 4 Remove this side to gain access to air filter.
- 5 Provides 15% fresh air





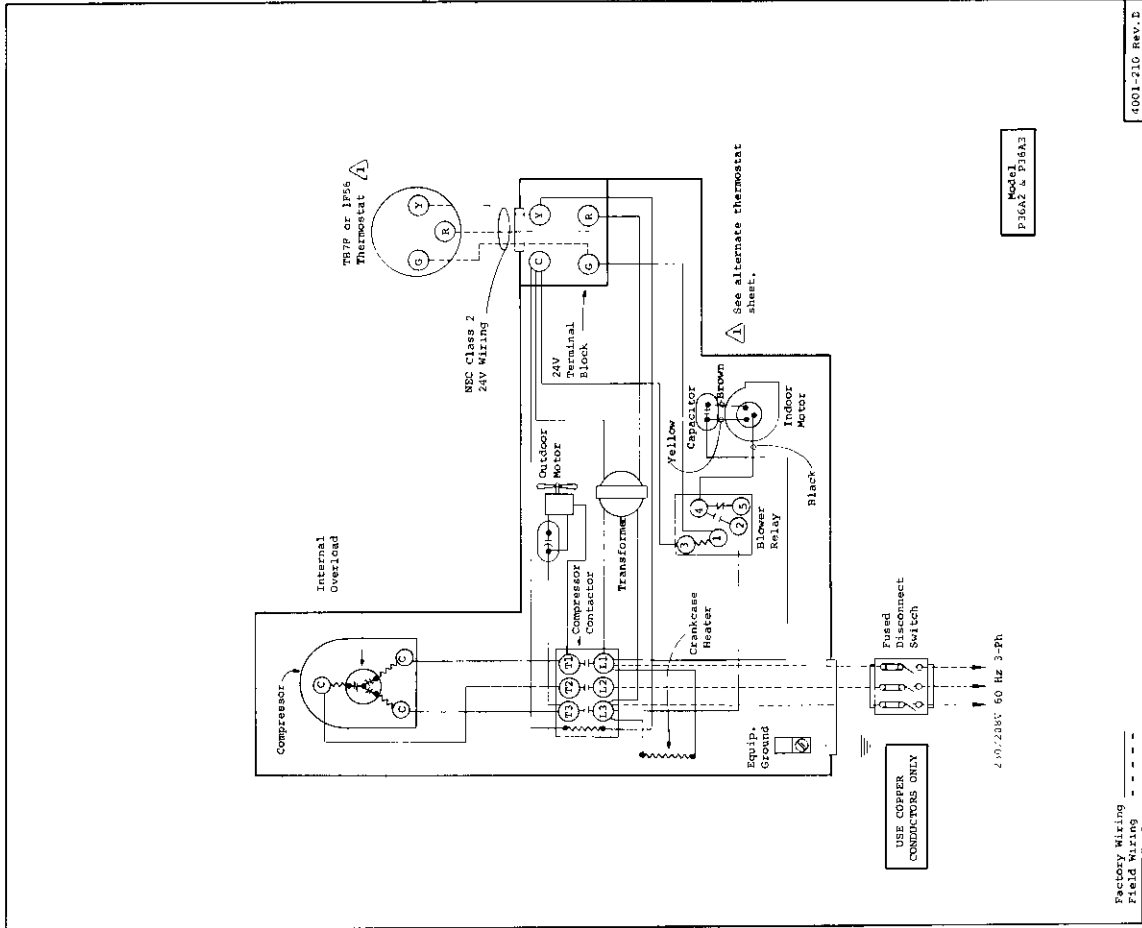
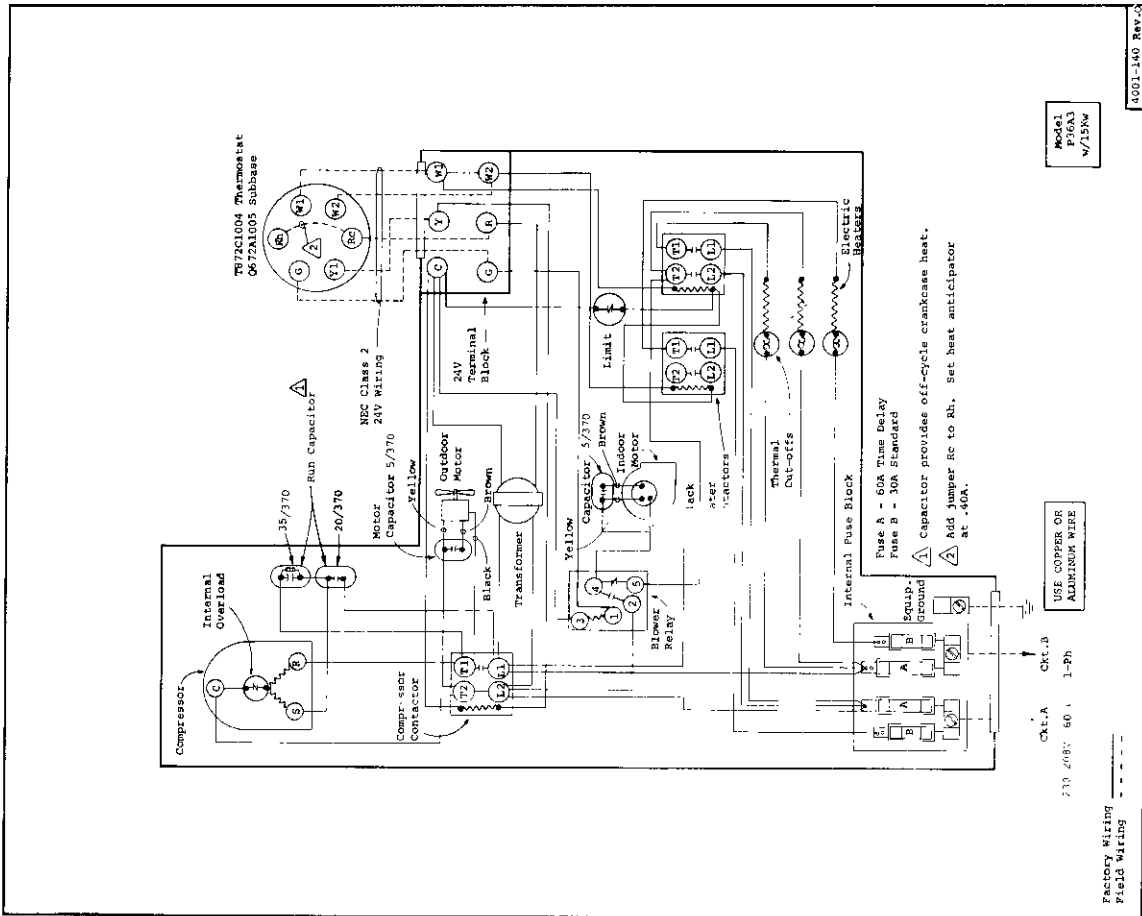


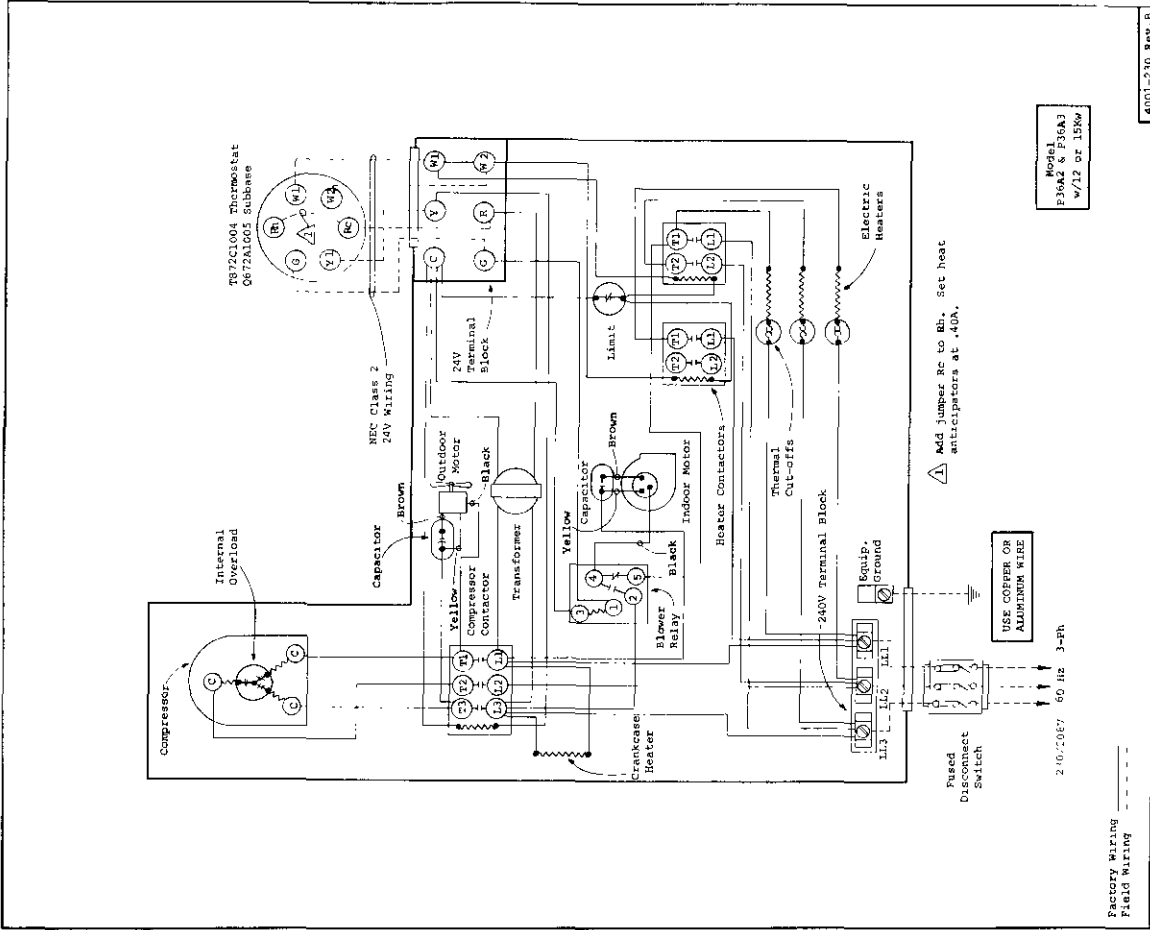
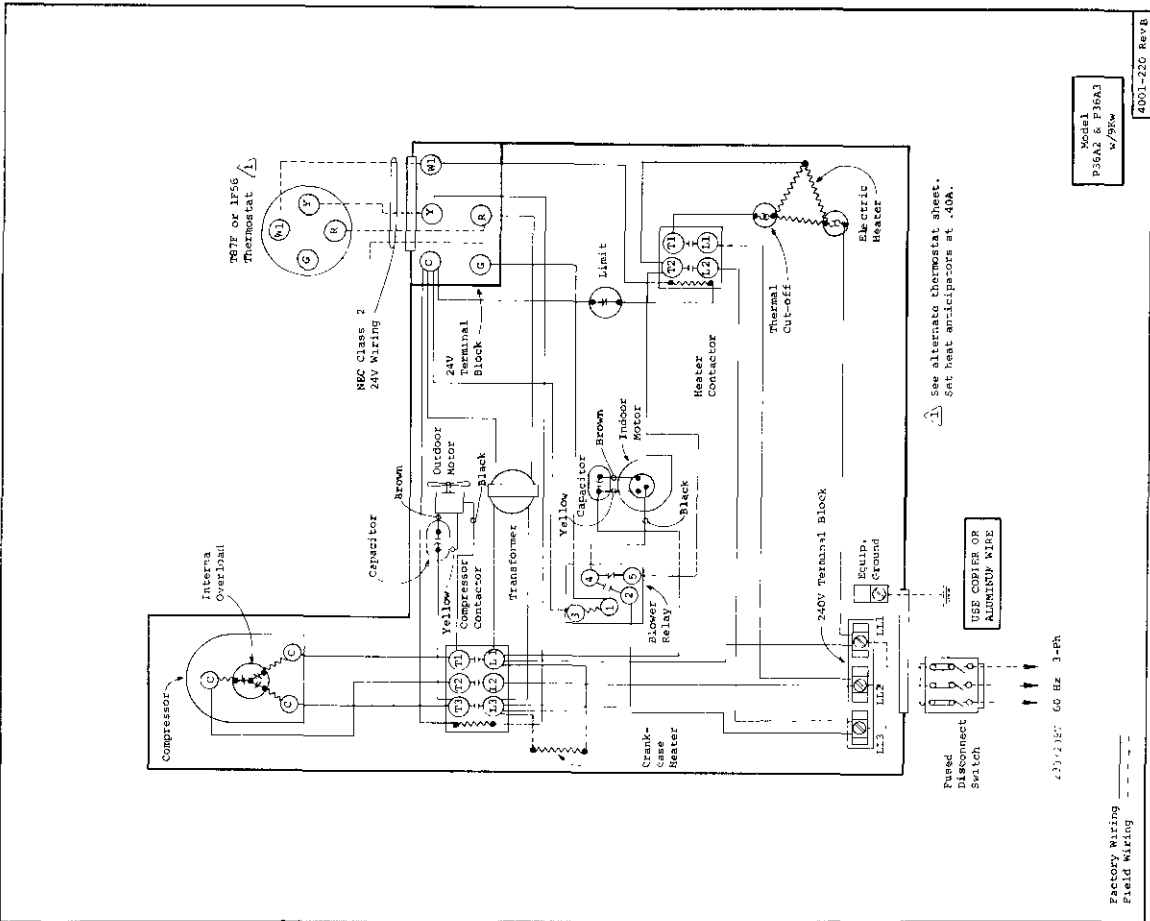
4001-120 Rev. C

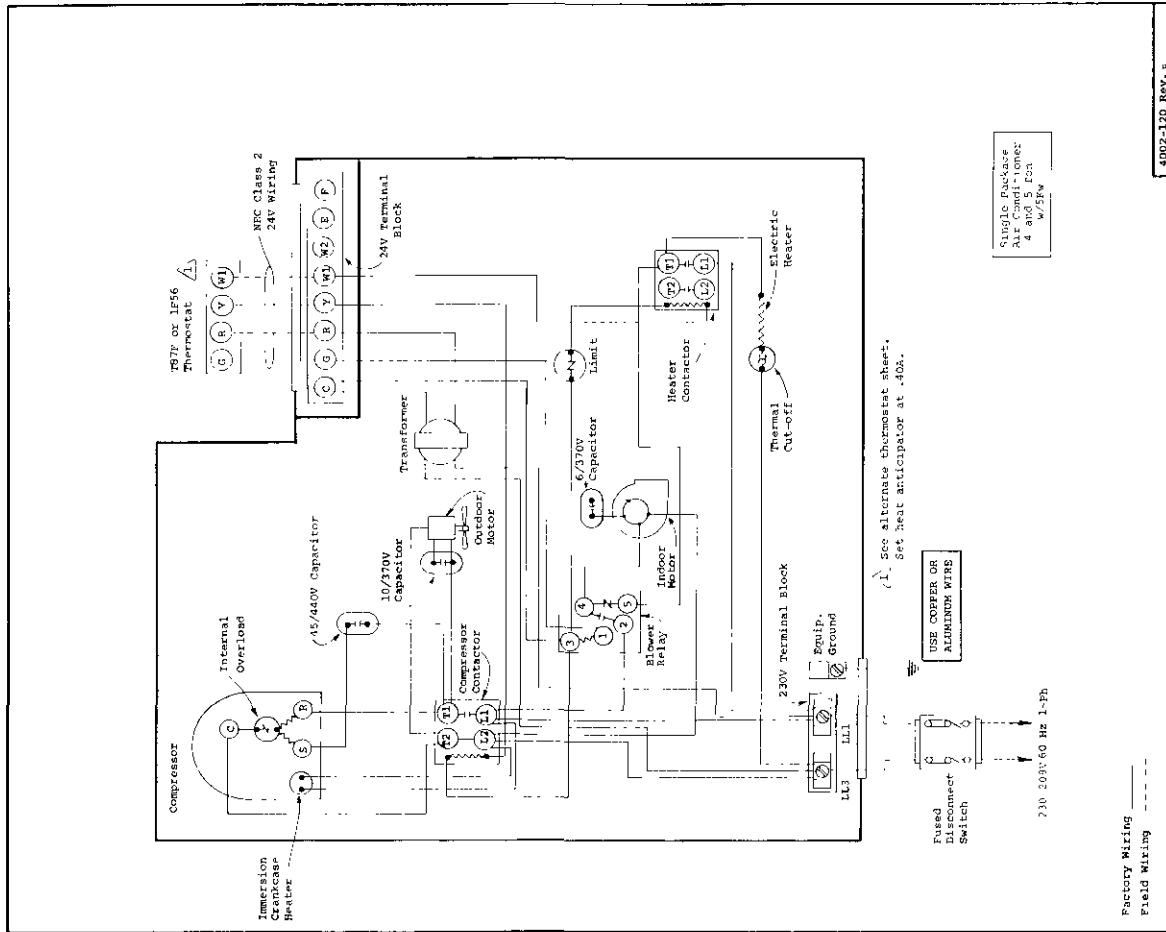
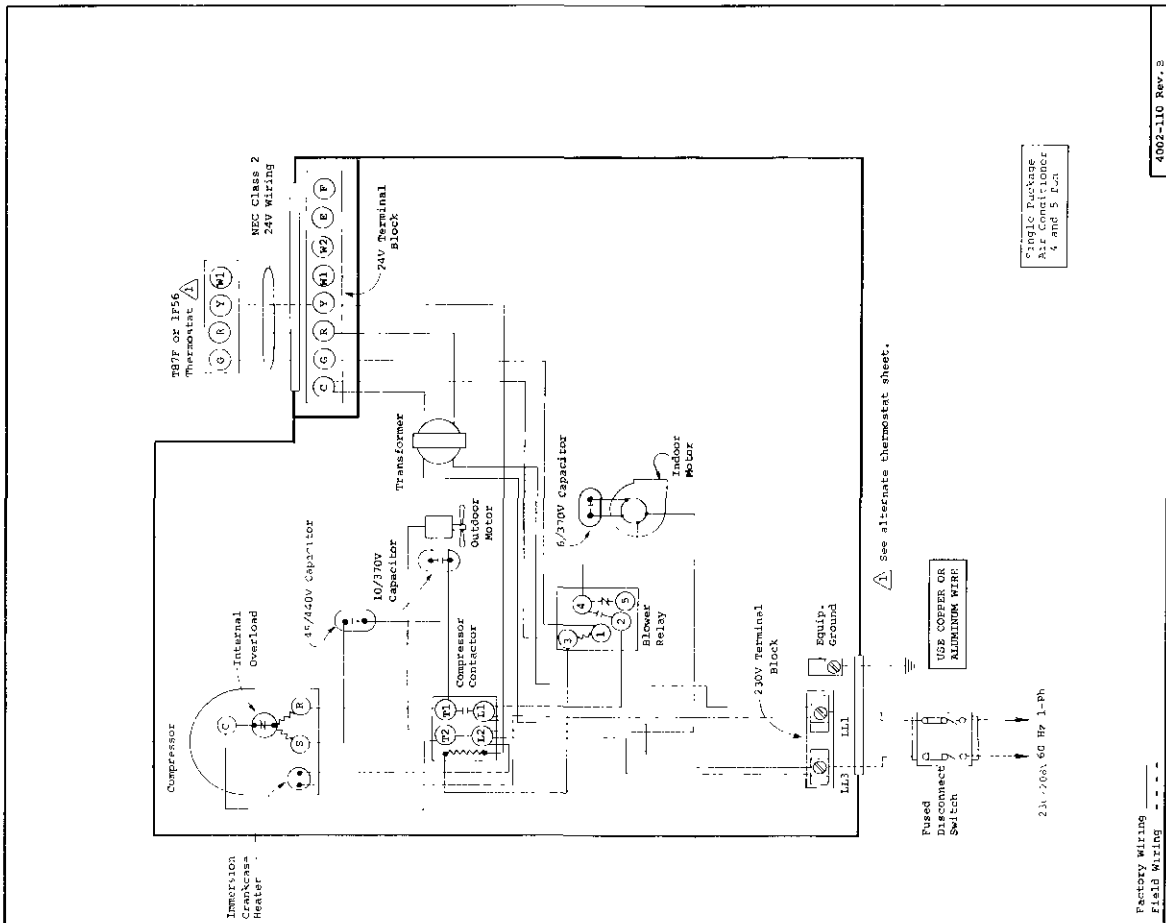


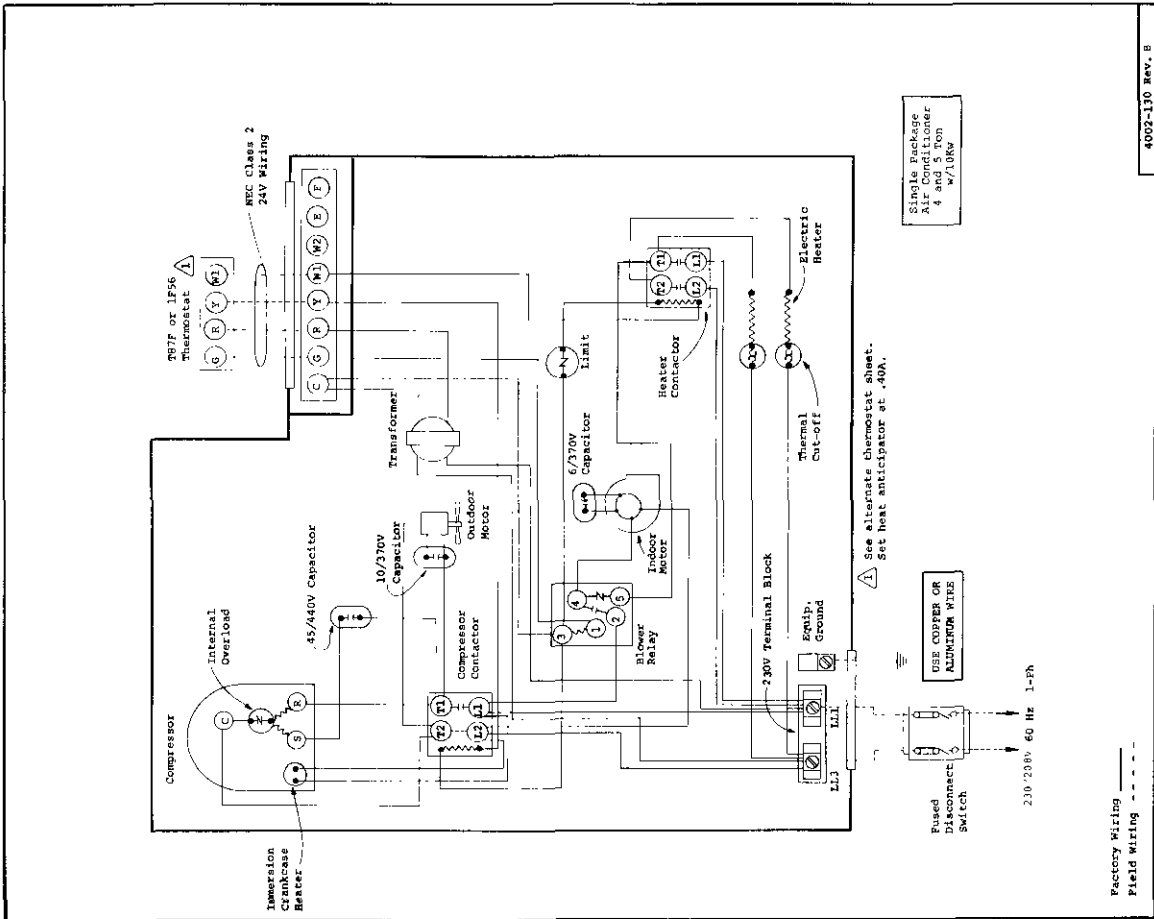
1001-130 Rev. C





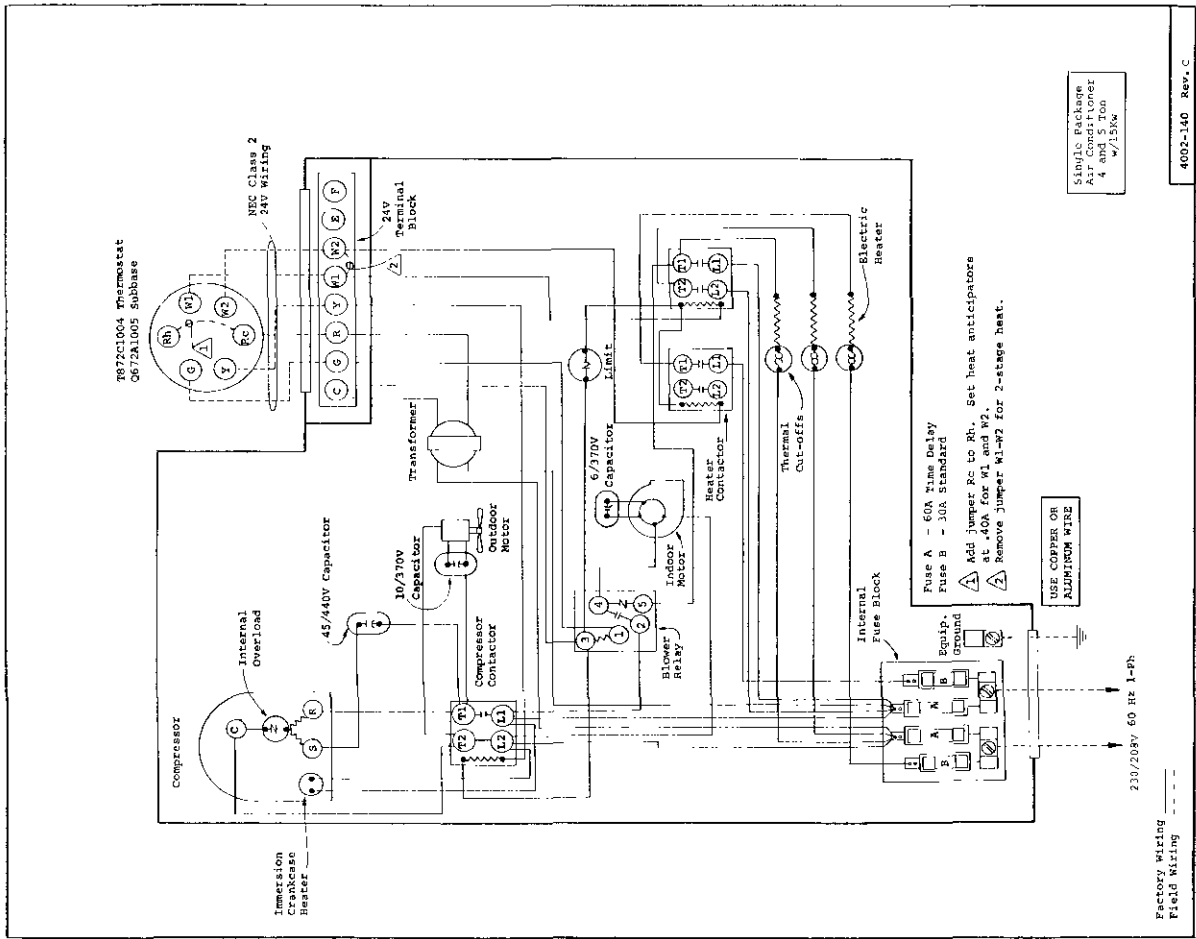






Single Package  
 Air Conditioner  
 4 and 5 Ton  
 w/15kw

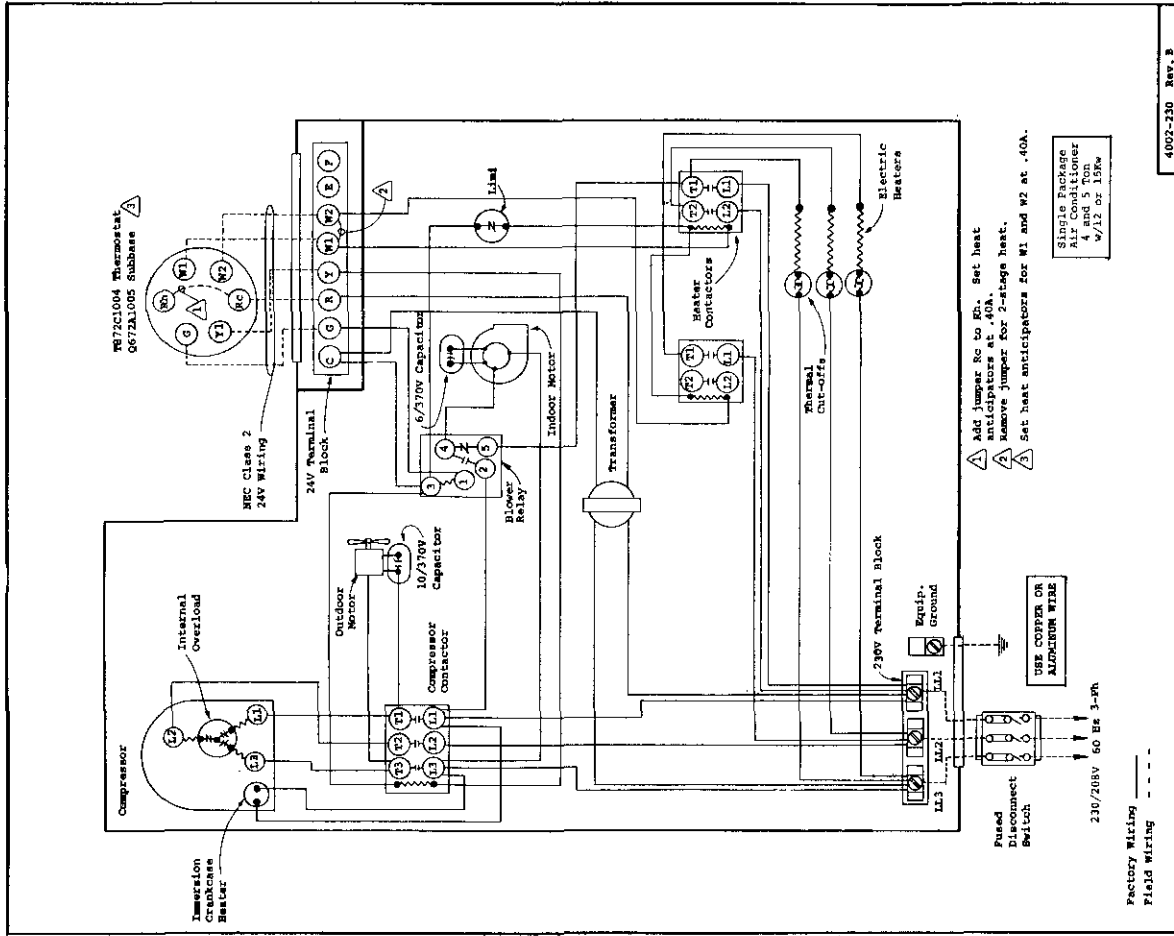
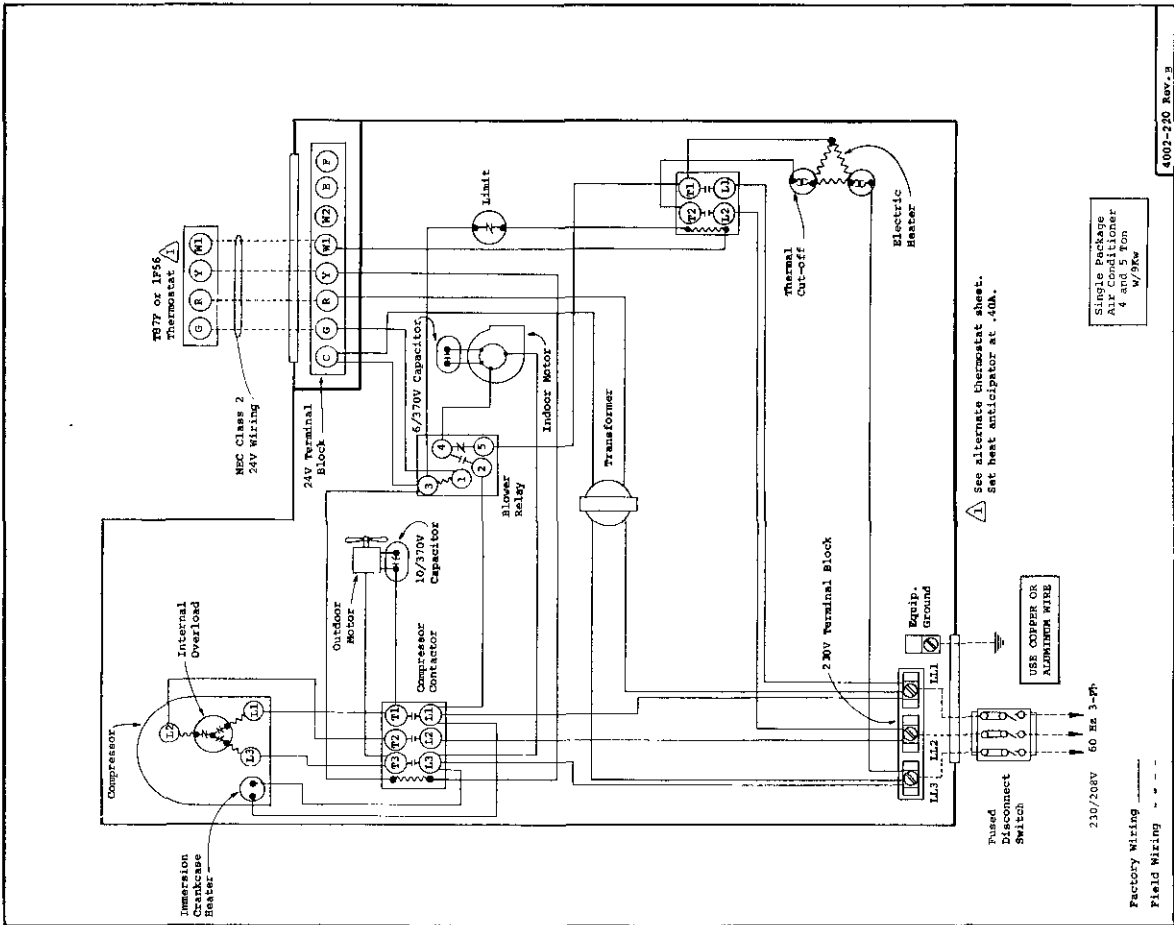
4002-130 Rev. B  
 Factory Wiring  
 Field Wiring



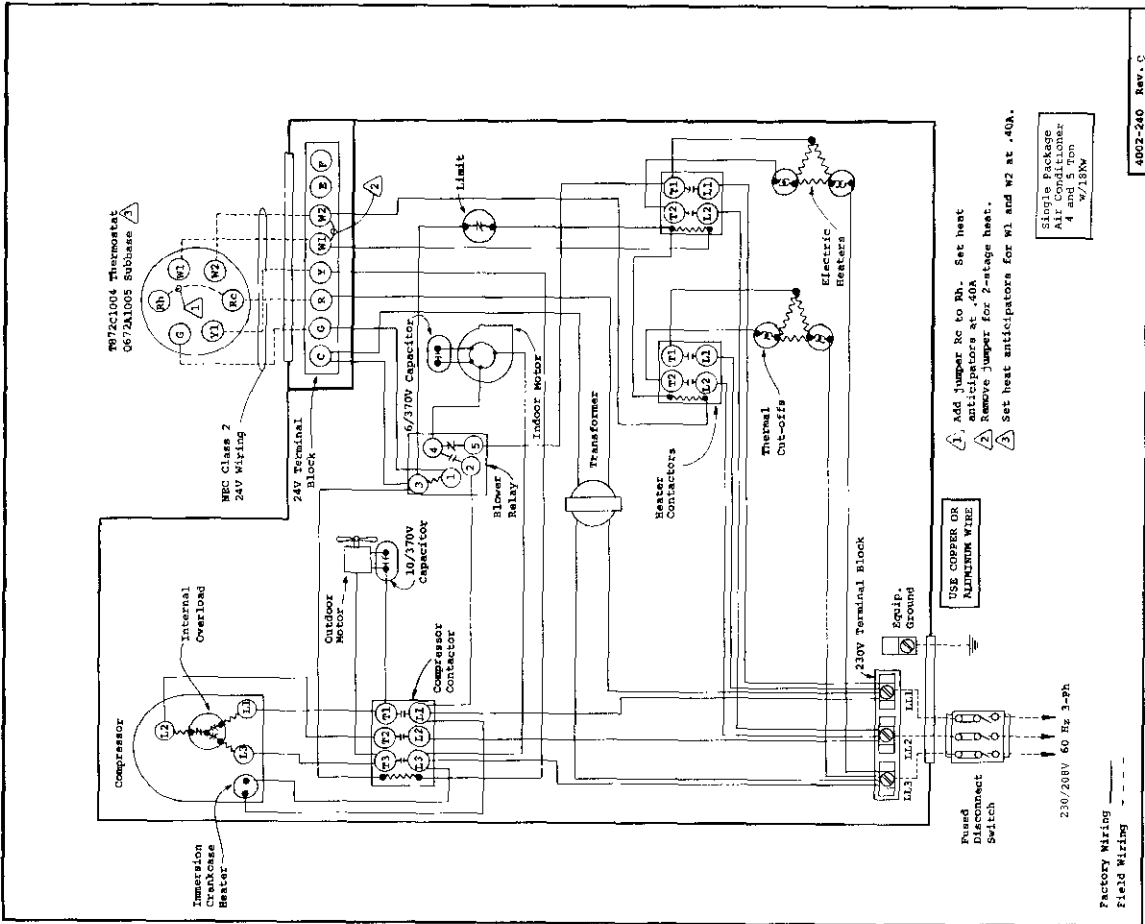
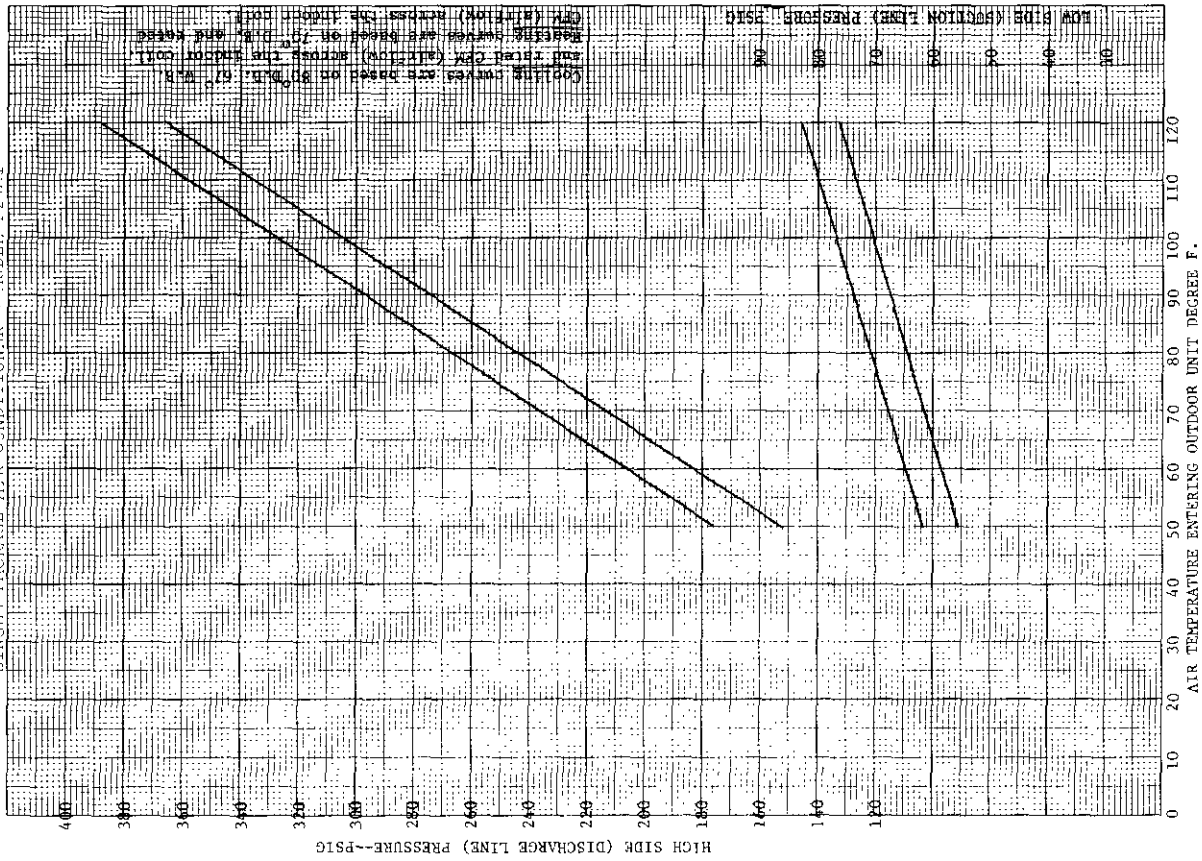
Single Package  
 Air Conditioner  
 4 and 5 Ton  
 w/15kw

4002-140 Rev. C  
 Factory Wiring  
 Field Wiring



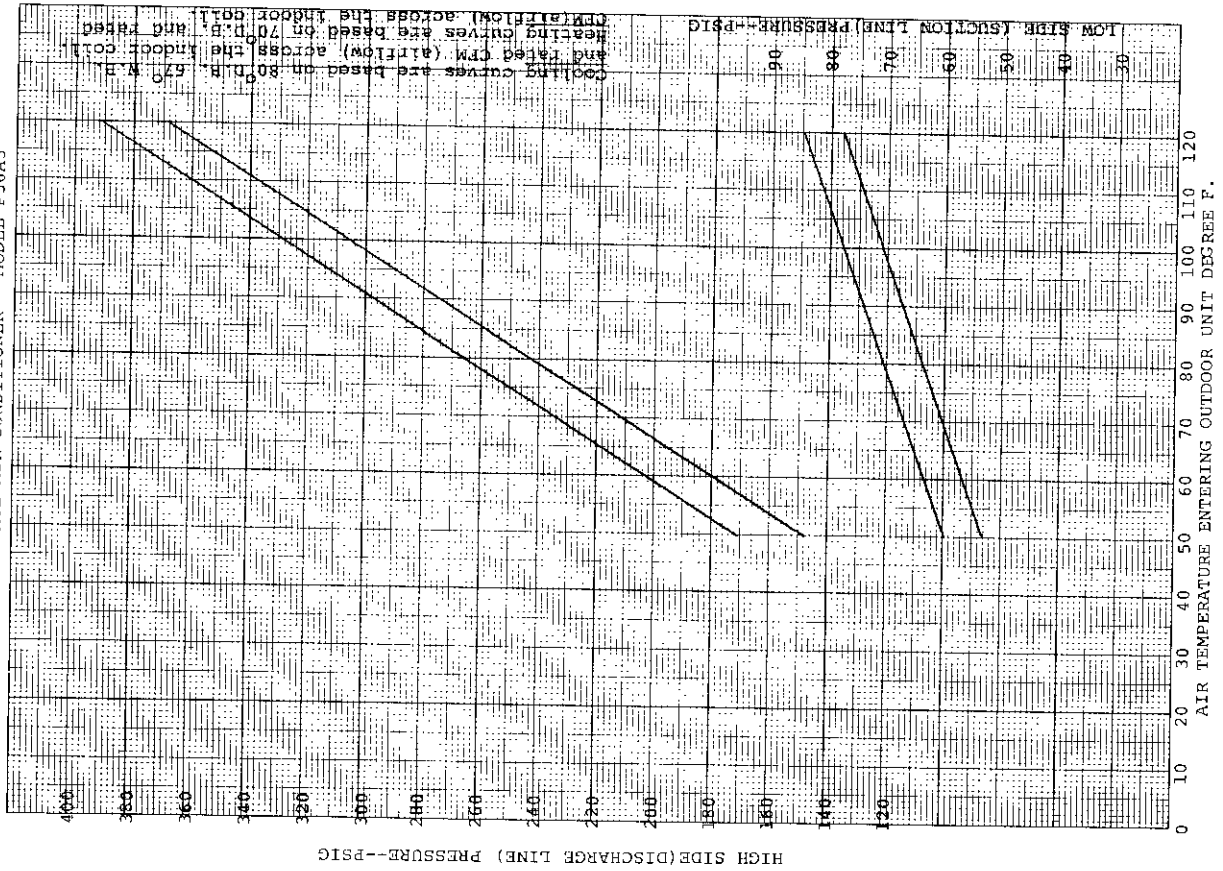


SINGLE PACKAGE AIR CONDITIONER - MODEL P2LAI

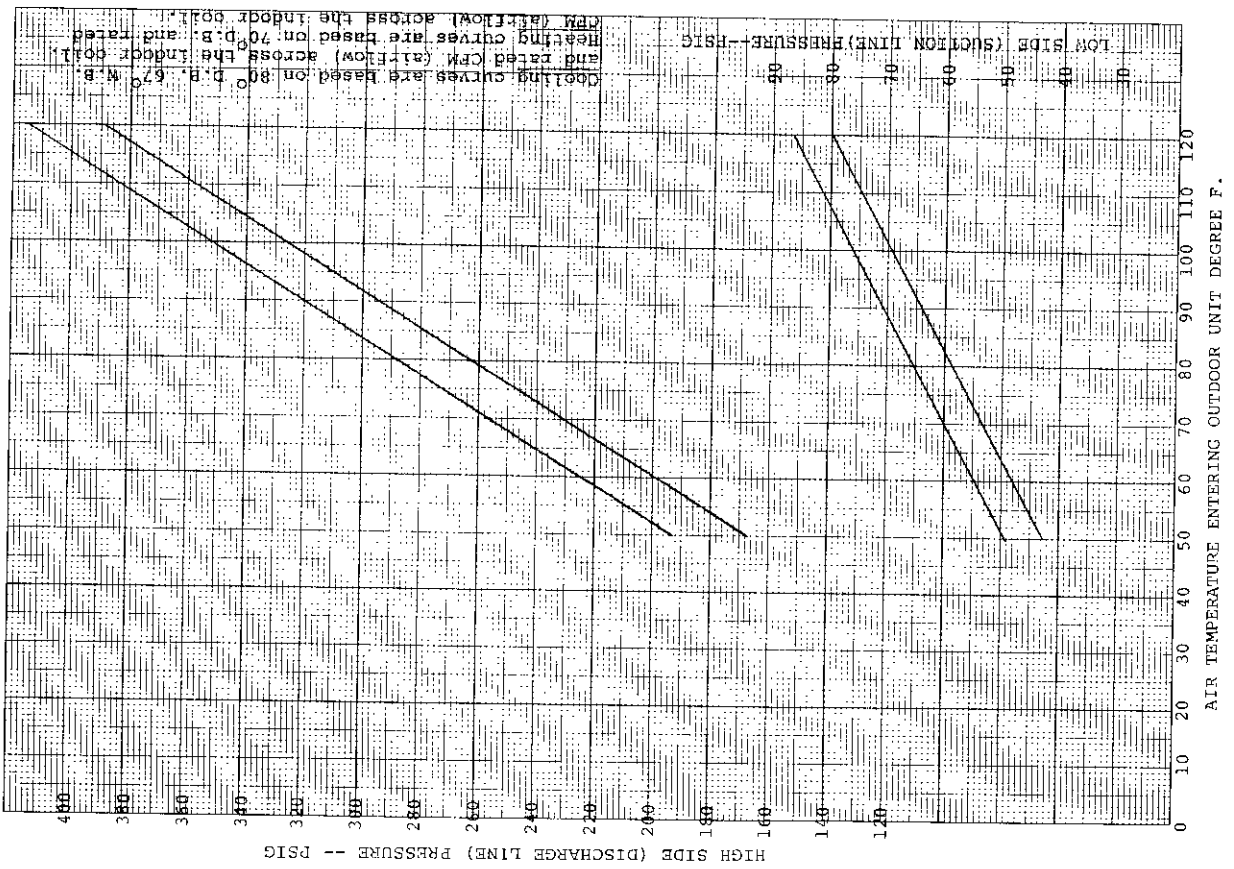


4002-240 Rev. C

SINGLE PACKAGE AIR CONDITIONER - MODEL P36A3

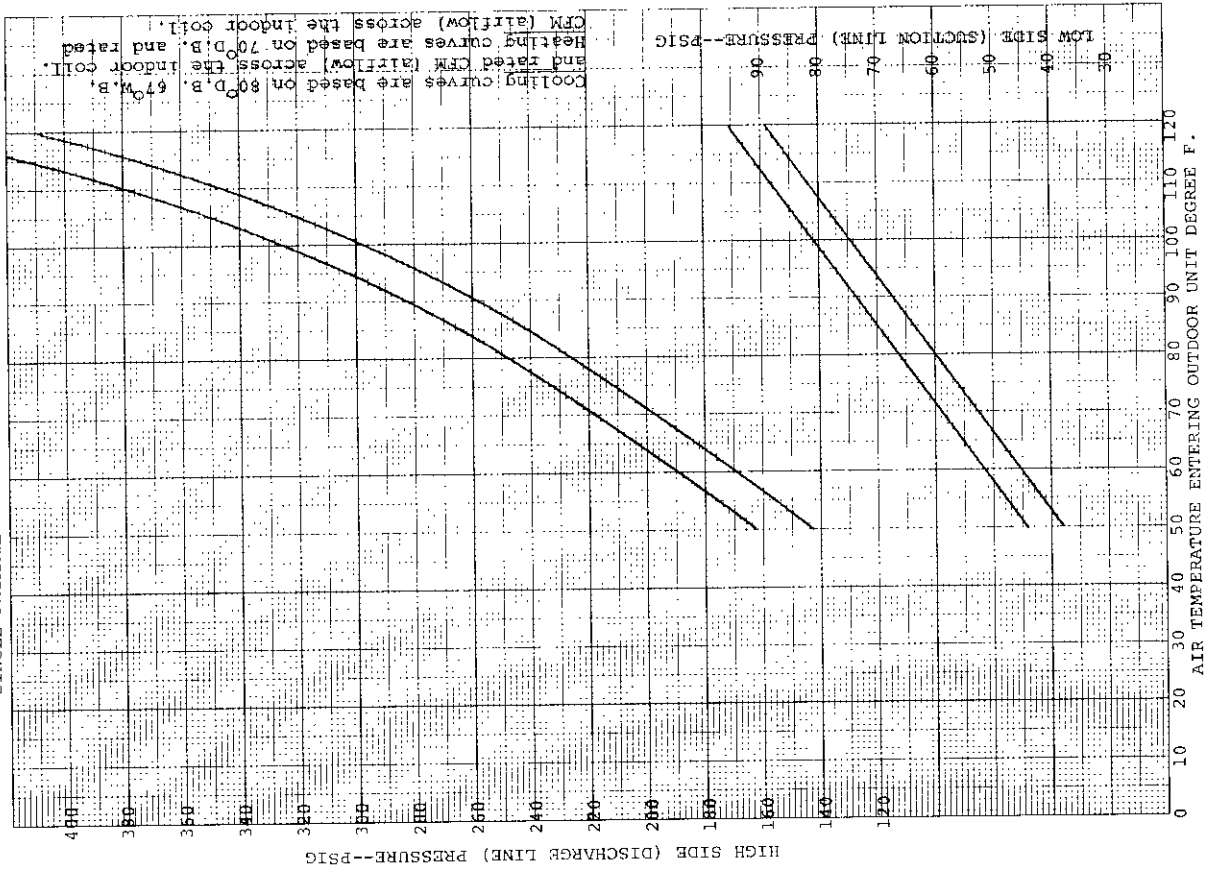


SINGLE PACKAGE AIR CONDITIONER - MODEL P30A1

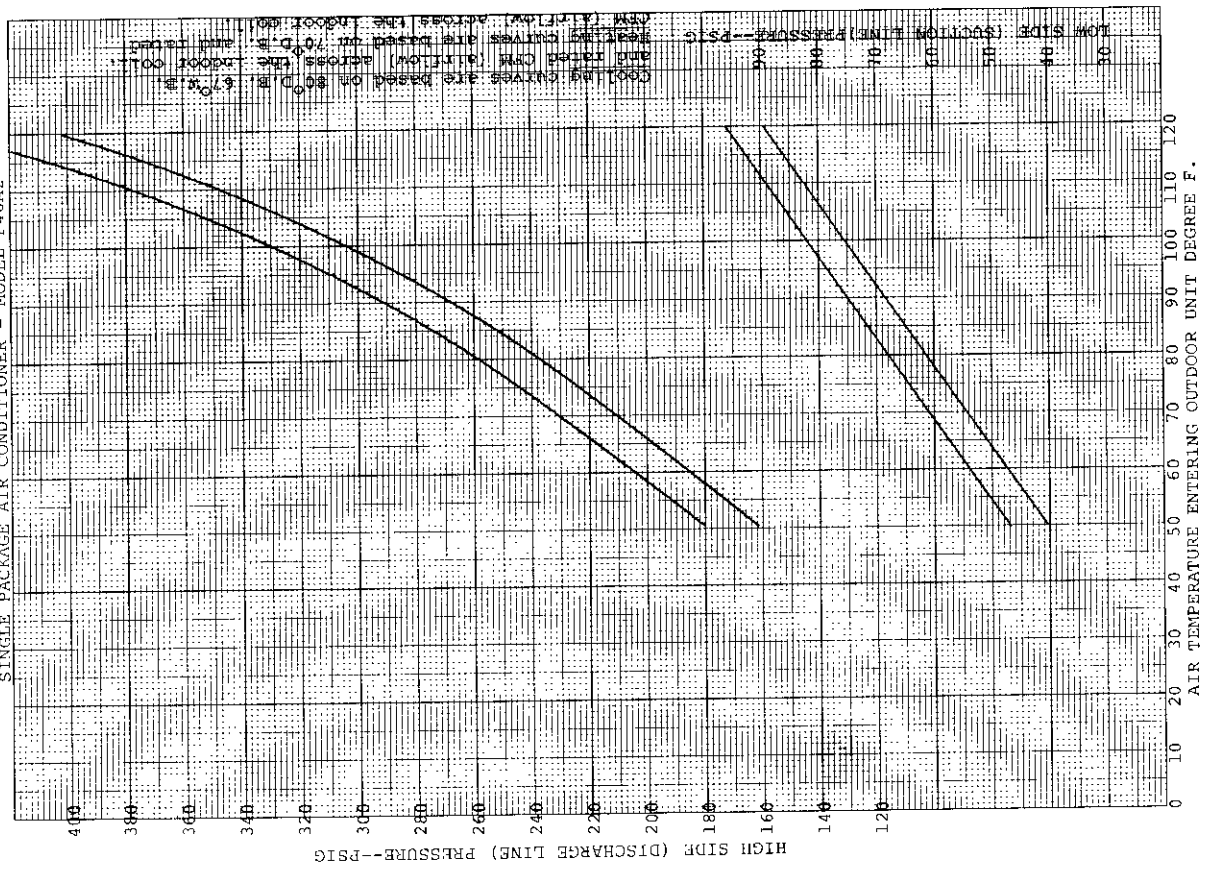




SINGLE PACKAGE AIR CONDITIONER - MODEL P60A2



SINGLE PACKAGE AIR CONDITIONER - MODEL P48A2



PART NO.	DESCRIPTION	R241	P301	P36A3	P48A2	P48A2-3	P60A2	P60A2-3	P36A3-3	P48A2-3	P60A2-3	P460V	P48A2-3	P460V	P60A2-3
5152-020	Blower Housing S110-6	x	x												
5152-026	Blower Housing 10-8														
5152-027	Blower Housing 10-10														
5152-009	Blower Wheel 10x5 1/2	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5152-013	Blower Wheel DD10-8A														
5152-015	Blower Wheel DD10-10A														
8552-007	Capacitor 20/15-370V	x	x												
8552-017	Capacitor 45/440V														
8552-001	Capacitor 4/370V														
8552-002	Capacitor 5/370V	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8552-003	Capacitor 6/370V														
8552-004	Capacitor 7 1/2/370V														
8552-005	Capacitor 10/370V														
5811-021	Cap Tube														
5811-026	Cap Tube														
5811-022	Cap Tube														
5811-008	Cap Tube														
5811-025	Cap Tube														
8000-002	Compressor AB114FT	x													
8000-006	Compressor AH152FT														
8000-045	Compressor H2EA413AB														
8000-046	Compressor H2EA413DB														
8000-026	Compressor AG111FT														
8000-030	Compressor AG111FT														
8000-027	Compressor AG122FT														
8000-031	Compressor AH302FT														
8000-010	Compressor AG122FT														
8000-047	Compressor AG111FT														
8000-048	Compressor AG122FT														
83494	Compressor O'Load														
83493	Compressor O'Load														
83672	Compressor O'Load														
83684	Compressor O'Load														
5051-006	Condenser Coil	x	x												
5051-020	Condenser Coil														
5051-009	Condenser Coil														
8401-007	Contact - Comp. 25A	x	x	x	x	x	x	x	x	x	x	x	x	x	x
8401-002	Contact - Comp. 25A														
8401-016	Contact - Comp. 35A														
8401-003	Contact - Comp. 30A														
8401-006	Contact - Heater 20A	x	x	x	x	x	x	x	x	x	x	x	x	x	x

PART NO.	DESCRIPTION	R241	P301	P36A3	P48A2	P48A2-3	P60A2	P60A2-3	P36A3-3	P48A2-3	P60A2-3	P460V	P48A2-3	P460V	P60A2-3
8552-020	Capacitor 35/370V														
8552-022	Capacitor 20/370V														
8605-001	Crankcase Heater														
8605-002	Crankcase Heater														
5060-005	Evaporator Coil	x	x												
5060-006	Evaporator Coil														
5060-001	Evaporator Coil														
5060-011	Evaporator Coil														
5151-009	Fan Blade FFI827-4	x	x												
5151-004	Fan Blade TP2026														
5151-021	Fan Blade FA2430-4B														
5151-022	Fan Blade FA2425-4B														
8614-022	Fuse - Compressor 60A														
8614-006	Fuse - Heater 30A														
8614-007	Fuse - Heater 60A														
8614-017	Fuse Block 15Kw														
8614-013	Fuse Block 20Kw														
8604-042	Heat Strip 5Kw														
8604-044	Heat Strip 10Kw														
8604-047	Heat Strip 15Kw														
8604-048	Heat Strip 12Kw														
8604-050	Heat Strip 9Kw														
8604-052	Heat Strip 15Kw														
8402-015	Limit Switch														
8402-012	Limit Switch														
8106-005	Motor - Blower & Fan 1/2	x	x												
8105-007	Motor - Blower 1/3														
8105-006	Motor - Blower 1/2														
8105-009	Motor - Fan 1/5														
8105-005	Motor - Fan 1/3														
8106-007	Motor - Fan 1/2														
8200-010	Motor Cradle														
8200-007	Motor Mt. - Blower	x	x												
8200-003	Motor Mt. - Blower														
8200-001	Motor Mt. - Fan														
8200-004	Motor Mt. - Fan														
8200-011	Motor Mt. - Fan														
5451-011	Motor Mounting Parts														

PART NO.	DESCRIPTION	P24A1	P30A1	P36A3	P48A2	P48A2-3	P60A2	P60A2-3	P36A3-3	P48A2-3	P60A2-3	P36A3-3	P48A2-3	P60A2-3	460V
8201-009	Relay - Blower	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8201-008	Relay - Blower														X
5210-002	Strainer	X	X												X
5210-004	Strainer			X	X	X	X	X	X	X	X	X	X	X	X
5210-003	Strainer														X
5210-005	Strainer														X
8607-006	Terminal Board 24V	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8607-001	Terminal Block 230V	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8607-002	Terminal Block 230V														X
8402-026	Thermal Cut-off	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8402-025	Thermal Cut-off														X
8407-007	Transformer	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8407-015	Transformer														X
8407-003	Transformer-Stepdown														X
8407-005	Transformer-Stepdown														X

Minimum Net Billing \$15.00. Supersedes all previous lists.  
Subject to change without notice. F.O.B. Bryan, Ohio

ELECTRICAL INFORMATION										WIRING INFORMATION <sup>1</sup>				
Model	Volts-Ph	Heater Kw @ 240V	Max. Unit Amps	No. Field Power Circuits	Internal Fuses		Req'd. Maximum External Fuses		Min. Ckt. Ampacity		Power Ckt. Wiring		Ground Wire Size <sup>2</sup>	
					Ckt.A	Ckt.B	Ckt.A	Ckt.B	Ckt.A	Ckt.B	Ckt.A	Ckt.B	Ckt.A	Ckt.B
P24A1	230/1	0	17.4	1			30		21		10		10	
		5	25.2	1			35		32		8		10	
		10	46	1			60		57		4		10	
P30A1	230/1	0	20.9	1			40		25		10		10	
		5	25.2	1			40		32		8		10	
		10	46	1			60		57		4		10	
P36A3	230/208-1	0	29	1			50		35		8		10	
		5	29	1			50		35		8		10	
		10	45	1			60		56		4		10	
		15	65.9	1	60	30	90		82		2		8	
P36A3	230/208-3	0	19.5	1			35		23		10		14	
		9	25.1	1			35		31		8		12	
		12	32.3	1			40		40		8		12	
		15	39.6	1			50		50		6		10	
P48A2	230/208-1	0	31.7	1			60		38		8		10	
		5	31.7	1			60		38		8		10	
		10	45.5	1			60		57		4		10	
		15	66.4	1	60	30	90		83		2		8	
		20	87.1	2	60	60	60	60	57	52	4	6	10	10
P48A2	230/208-3	0	24.7	1			45		29		10		10	
		9	25.6	1			45		32		8		10	
		12	32.8	1			45		41		6		10	
		15	40.1	1			50		50		6		10	
		18	47.3	1			60		59		4		10	
P60A2	230/208-1	0	37.2	1			60		44		6		10	
		5	37.2	1			60		44		6		10	
		10	45.8	1			60		57		4		10	
		15	66.4	1	60	30	90		83		2		8	
		20	87.1	2	60	60	60	60	57	52	4	6	10	10
P60A2	230/208-3	0	29.2	1			50		34		8		10	
		9	29.2	1			50		34		8		10	
		12	32.8	1			50		41		6		10	
		15	40.1	1			50		50		6		10	
		18	47.3	1			60		59		4		10	

<sup>1</sup> Based upon the use of 60°C copper wiring material.

<sup>2</sup> Based upon Table 250-95 of N.E.C., 1978.

IMPORTANT

PURCHASER'S RESPONSIBILITIES

Below are the responsibilities of the purchaser and these items cannot be considered as defects in workmanship or material.

1. Air filter cleaning or replacement.
2. Failure to operate due to improper air distribution over indoor and outdoor equipment sections.
3. Failure to start due to voltage conditions, blown fuses or other damage due to inadequacy or interruption of electrical service.
4. Damage caused directly or indirectly by improper installation.
5. Damage due to lack of proper and periodic maintenance.
6. Damage resulting from transportation, moving or storage of unit.
7. Unit must be readily accessible for servicing and/or repair at all times.
8. Any adjustment or service to the unit should be made by qualified service personnel.
9. Misapplication of product.

MODEL NO. \_\_\_\_\_ SERIAL NO. \_\_\_\_\_ DATE  
INSTALLED \_\_\_\_\_

INSTALLER: Please fill in above blanks and leave  
this manual with equipment owner/operator.