MANUAL 2100-0308

MODELS
RPMA 30 and RPMA 36

ROOF MOUNT
PACKAGED AIR CONDITIONER

INSTALLATION INSTRUCTIONS

SPECIALLY DESIGNED FOR ROOFTOP HEATING / COOLING APPLICATIONS

ENERGY CONSERVING

ROOF MOUNT PACKAGED AIR CONDITIONERS

MODELS
RPMA30
RPMA36

ENGINEERED FEATURES

UPFLOW CONDENSER AIR DISCHARGE allows more freedom of unit placement. Condenser fan is less susceptible to wind effect than horizontal discharge models.

ROOF ADAPTER - Special one piece design eliminates the possibility of water leaks. Permits the installer to rough-in the duct work. (Model RA3036 Roof Adapter - order separately).

ROOF CURB - Factory supplied option, designed to mate with the RA3036 Roof Adapter. Makes a lower cost, quicker, easier to install, leakproof installation. Flexible design suitable for most flat roofs. Has built-in roofing "nailer strip." (Model RPM36 Roof Curb - order separately). Special order curbs for pitched roofs available - consult factory.

COPPER TUBE aluminum finned coil surface provides maximum heat transfer.

GAUGE PORTS are standard equipment for easier maintenance.

EASY TO SERVICE because all components and controls are accessible for inspection.

THREE-SPEED BLOWER MOTOR provides airflow adjustments for both high or low static operation. Standard on both models.

ELECTRIC HEAT STRIPS with automatic limit and thermal cutoff are available as a built-in option.

INTERNAL FUSING with single power circuit eliminates extra field wiring. Fusing standard on 15 and 20K models.

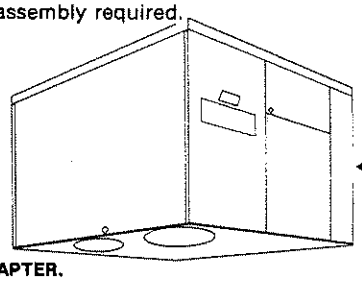
COMPRESSOR is equipped with crankcase heater and is protected with internal overload, high-pressure relief valve and an anti-slug device.

BUILT-IN THROWAWAY FILTER is standard equipment.

FRESH AIR INLET - Standard.

Easy 3-step installation for roof top applications. Saves installation labor, time, cost and provides leakproof installation. No special roof hood plenum assembly required.

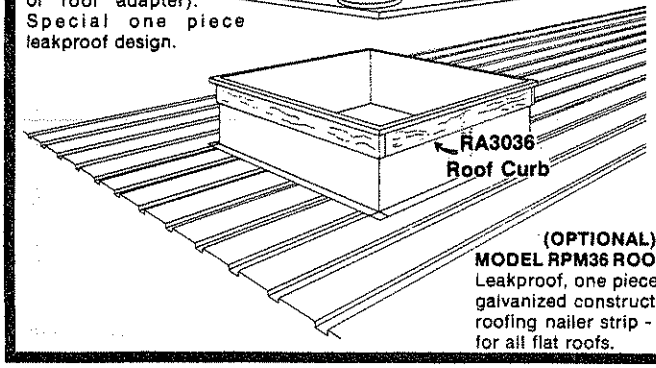
RPM SERIES. Packaged Roof Mount Air Cond. Unit.



RPMA30 and RPMA36

RA3036 ROOF ADAPTER. Painted galvannealed steel adapter permits installer to rough-in the duct work at the job sight and install RPM unit later. (Duct flanges provided on bottom of roof adapter). Special one piece leakproof design.

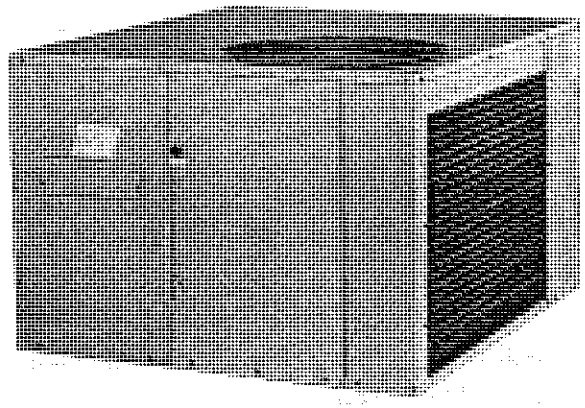
RA3036 Roof Adapter



RA3036 Roof Curb

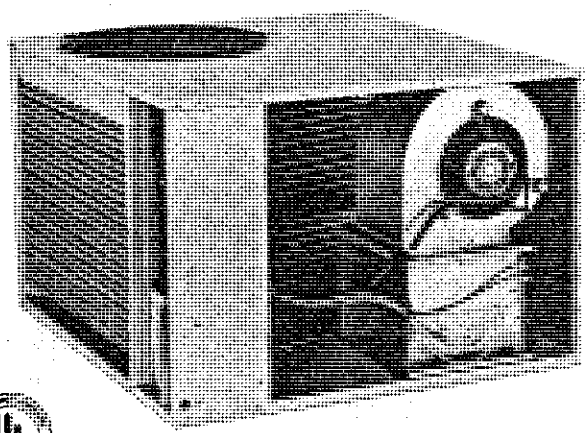
(OPTIONAL) MODEL RPM36 ROOF CURB Leakproof, one piece welded galvanized construction with roofing nailer strip - suitable for all flat roofs.

COOLING CAPACITIES: 29,400 to 35,000 BTU



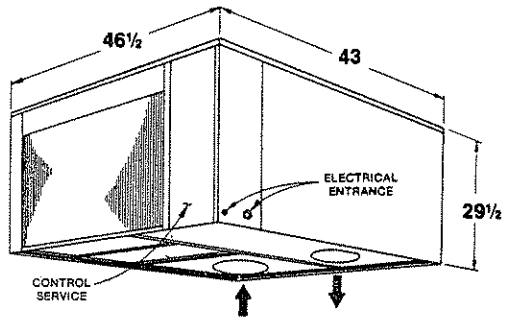
CAPACITY AND EFFICIENCY RATINGS

MODEL	PHASE	BTUH	EER	SEER
RPMA30	1	29,400	--	8.00
RPMA30-3	3	31,400	8.00	--
RPMA36	1	35,000	--	8.00
RPMA36-3	3	35,000	8.00	--



LISTED

CERTIFIED



SPECIFICATIONS —

MODEL	RPMA30	RPMA30-3	RPMA30-3†	RPMA36	RPMA36-3	RPMA36-3†
Cooling Capacity BTUH	29,400	31,400	31,400	35,000	35,000	35,000
Heating Capacity BTUH	SEE ELECTRIC HEAT TABLES NO. 1 & 2					
Electrical — Less KW	230/208-1-60	230/208-3-60	460-3-60	230/208-1-60	230/208-3-60	460-3-60
Operating Voltage Range	197-253	187-253	414-506	197-253	187-253	414-506
Min. Circuit Ampacity	24	18	15	29	20	15
*Field Wire Size	No. 10	No. 12	No. 14	No. 10	No. 12	No. 14
**Delay Fuse — Max.	40	25	15	45	30	15
Total Unit Amps	20.3	15.0	8.2	24.3	17.3	9.2
Compressor — Circuit A						
Volts	230/208	230/200	460	230/208	230/200	460
Rated Load	16.0	11.0	6.0	20.0	13.0	7.0
Lock Rotor Amps	68	65	32	83.5	66	35
Fan Motor & Condenser						
Fan Motor — HP/RPM	1/5 H.P. — 1075 RPM			1/5 H.P. — 1075 RPM		
Fan Motor — Amps	1.5	1.5	1.5	1.5	1.5	1.5
Fan — Dia/CFM	18"/1840	18"/1840	18"/1840	18"/1900	18"/1900	18"/1900
Face Area - Sq. Ft.	5.04	5.04	5.04	5.04	5.04	5.04
Row/Fins per in.	3/16	3/16	3/16	3/16	3/16	3/16
Motor & Evaporator						
Blower Motor — HP/RPM	1/3 H.P. - 1075 - 3 Speed			1/3 H.P. - 1075 RPM - 3 Speed		
Blower Motor — Amps	2.8	2.8	2.8	2.8	2.8	2.8
CFM (Rated)	1050	1050	1050	1300	1300	1300
Face Area — Sq. Ft.	3.16	3.16	3.16	4.16	4.16	4.16
Row/Fins per in.	3/14	3/14	3/14	3/15	3/15	3/15
Refrigerant 22 (oz.)	64	64	64	66	66	66
Shipping Weight Lbs.	410	410	410	415	415	415

*60° Copper Wire Size.
**Maximum time delay fuse or "HACR" type circuit breaker. Basic unit only — does not include supplemental heaters from Table No. 1. Refer to Table No. 2 for heater amps.
†460 volt not U.L. listed.

INDOOR BLOWER PERFORMANCE
CFM DRY COIL WITH FILTER

E.S.P. in H_2O	RPMA30 High Speed	RPMA30 Medium Speed	RPMA30 Low Speed	RPMA36 High Speed	RPMA36 Medium Speed	RPMA36 Low Speed
.0	1275	1205	1140	1425	1225	1130
.1	1225	1155	1085	1385	1190	1115
.2	1155	1080	1025	1330	1150	1085
.3	1070	1010	955	1275	1100	1050
.4	980	930	870	1205	1050	1005
.5	895	805	770	1130	995	950
.6	-	-	-	1060	935	890

ELECTRIC HEAT TABLE NO. 1

Model	KW	VOLTS	PHASE	*BTUH
RPMA30 and RPMA36	5	240	1	19000
	**10	240	1	36000
	15	240	1	53000
	20	240	1	70000
RPMA30-3 and RPMA36-3	6	240 or 460	3	22000
	**9	240 or 460	3	33000
	15	240 or 460	3	53000
	18	240 or 460	3	63000

*Includes blower motor with fresh air cover plate.
**Standard KW.

BEFORE PURCHASING THIS APPLIANCE, READ IMPORTANT ENERGY COST AND EFFICIENCY INFORMATION AVAILABLE FROM YOUR RETAILER.

ELECTRIC HEAT TABLE NO. 2

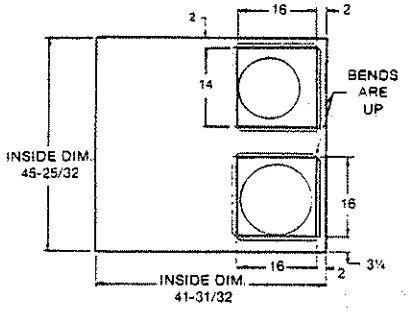
MODEL	RATED VOLTS & PH	HEATER Kw @ 240V	MAX. UNIT AMPS	NO. FIELD POWER CIRCUITS	INTERNAL FUSES CKT. A/B	MAXIMUM FUSE OR CIRCUIT BREAKER* CKT. A	MINIMUM CIRCUIT AMPACITY CKT. A	FIELD POWER WIRING ⚠ CKT. A	GROUND WIRE SIZE ⚠ CKT. A
RPMA30	230/208-1	5	23.6	1		40	30	10	10
		10	44.4	1		60	56	4	10
		15	65.3	1	60/30	90	82	2	8
		20	86	1	60/60	110	108	1	6
RPMA30-3	230/208-3	6	17.2	1		25	22	10	10
		9	24.5	1		35	31	8	10
		15	39.0	1		50	49	6	10
		18	46.2	1		60	58	4	10
RPMA30-3	460-3	6	8.6	1		15	15	14	14
		9	12.2	1		15	15	14	14
		15	19.4	1		25	25	10	10
		18	23.1	1		30	29	10	10
RPMA36	230/208-1	5	24.3	1		45	29	10	10
		10	44.4	1		60	57	4	10
		15	65.3	1	60/30	90	82	2	8
		20	86	1	60/60	110	108	1	6
RPMA36-3	230/208-3	6	17.3	1		30	22	10	10
		9	24.5	1		35	31	8	10
		15	39.0	1		50	49	6	10
		18	46.2	1		60	58	4	10
RPMA36-3	460-3	6	9.2	1		15	15	14	14
		9	12.2	1		15	15	14	14
		15	19.4	1		25	25	10	10
		18	23.1	1		30	29	10	10

*Time Delay Fuses or "HACR Type" circuit breakers must be used for 60A and smaller sizes. Standard fuses or circuit breakers suitable for sizes 70A and larger.

⚠ Based on 60°C Copper wire.

IMPORTANT

While this electrical 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.

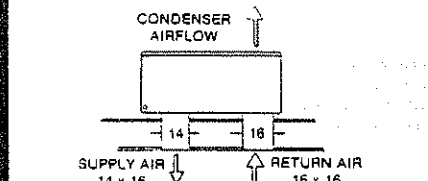


Bottom view
RA3036 ROOF ADAPTER

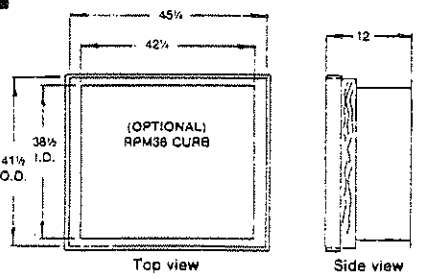
COOLING APPLICATION RATINGS — OUTDOOR TEMPERATURE °F*

MODEL		70°	75°	80°	85°	90°	95°	100°	105°	110°	115°
RPMA30	Total BTUH	36,700	35,200	33,600	32,000	30,400	29,400	27,400	25,800	24,200	22,600
	Sensible BTUH	23,400	22,600	21,800	20,900	20,100	19,500	18,300	17,500	16,700	15,800
	Latent BTUH	13,300	12,600	11,800	11,100	10,300	9,900	9,100	8,300	7,500	6,800
RPMA36	Total BTUH	44,600	42,600	40,500	38,500	36,400	35,000	32,300	30,200	28,100	26,000
	Sensible BTUH	29,800	28,800	27,900	27,000	26,000	25,300	24,200	23,300	22,400	21,500
	Latent BTUH	14,800	13,800	12,600	11,500	10,400	9,700	8,100	6,900	5,700	4,500

*At 80° DB/67° WB Return Air Temperature at Rated Indoor CFM.



All Specifications Subject To Change Without Notice



Top view
Side view

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 ductwork, supply and return, must be properly sized for the design air flow requirement of the equipment. NBSCA 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.

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.

INSTALLATION

Size of unit for a proposed installation should be based on heat loss calculation made according to methods of National Warm Air Heating and Air Conditioning Association. The air duct should be installed in accordance with the Standards of the National Fire Protection Association for the Installation of Air Conditioning and Ventilating Systems of Other Than Residence Type, NFPA No. 90A, and Residence Type Warm Air Heating and Air Conditioning Systems, NFPA No. 90B. Where local regulations are at a variance with instructions, installer should adhere to local codes.

DUCTWORK

Design the ductwork according to methods given by the National Warm Air Heating and Air Conditioning Association. When duct runs through unheated spaces, it should be insulated with a minimum of two inches of insulation. Use insulation with a vapor barrier on the outside of the insulation. Flexible joints should be used to connect the ductwork to the equipment in order to keep the noise transmission to a minimum.

LOCATING THE UNIT

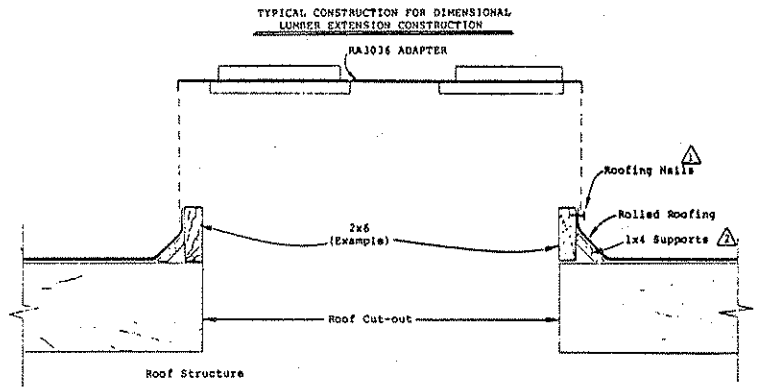
A location on the roof must be chosen that will provide adequate support to the unit, while at the same time allowing clearance for the supply air and return air duct connections to the RA3036 roof adapter—see layout and dimensions. NOTE: The RA3036 Roof Adapter MUST BE USED to assure a leak-free installation, and the U.L. approval is contingent upon the use of this mating adapter.

ROOF CURB FABRICATION

The roof curb (extension section between actual roof and RA3036 roof adapter) could be fabricated from either sheet steel or nominal dimensional lumber. In either case, the O.D. dimension of the extension section must be sized to fit the RA3036 adapter dimensions as shown.

All corners, seams or joints must be sealed to assure a leak-free installation. The height of the curb section is determined by installation requirements such as degree slope of roof, direction that the outdoor (exposed) coil faces, and geographic location. The unit MUST SET LEVEL when installed, and should be high enough to provide proper defrost drainage from outdoor coil during heating cycle.

A suggested design for a wood frame type construction is shown below:



CONDENSATE AND DEFROST DRAINAGE

A 3/4" FPT coupling is provided to connect a condensate drain line to, and is located on side opposite outdoor coil. See illustration.

An optional accessory outdoor coil drain pan, DP3036, is available to collect normal condensate run-off and defrost cycle condensate in applications where it may not be desirable to drain on to mounting surface, or may not be permitted by local codes.

There is a space beneath the outdoor coil for the DP3036 to slide in without unit modification, and the DP3036 is also supplied with a 3/4" FPT coupling for drain line connection.

AIR FILTER

A 24" x 24" x 1" disposable fiberglass type filter is located inside the unit for air filtration of both return air from structure and for optional fresh air intake (see below).

Access to the filter is by removing the corner panel where either the fresh air blank off panel or fresh air intake hood is located.

FRESH AIR INTAKE

The fresh air intake cover is a manual damper operated device to allow intake of fresh air whenever indoor blower is operating. The damper position can be manually set and locked in position with a wing nut. It is held in place by two screws and has a hardware cloth screen to prevent entry of birds or rodents. An optional cover plate is available if fresh air intake is not used.

WIRING - MAIN POWER

Refer to the unit rating plate for wire sizing information and maximum fuse or "HACR Type" circuit breaker 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 data 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" or "HACR Type" circuit breaker that is to be used with the equipment. The correct size 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.

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.

REFRIGERANT CHARGE

The correct system R-22 charge is shown on the unit rating plate. Optimum unit performance will occur with a refrigerant charge resulting in a suction line temperature (6" from compressor) as shown in the following table:

Model	Rated Airflow	95°F O.D. Temp.	82°F O.D. Temp.
RPMA30	1050	47 - 49	59 - 61
RPMA36	1300	49 - 51	56 - 58

The above suction line temperatures are based upon 80°F dry bulb/67°F wet bulb (50% R.H.) temperature and rated airflow across the evaporator during cooling cycle.

CRANKCASE HEATERS

All units are provided with some form of compressor crankcase heat. Some single phase units utilize the compressor motor start winding in series with a portion of the run capacitor to generate heat within the compressor shell to prevent liquid refrigerant migration.

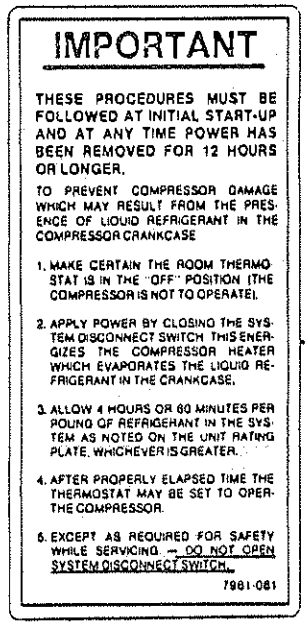
Some three phase units utilize a wraparound type of crankcase heater that warms the compressor oil from the outside.

Some single and three phase models have an insertion well-type heater located in the lower section of the compressor housing. This is a self-regulating type heater that draws only enough power to maintain the compressor at a safe temperature.

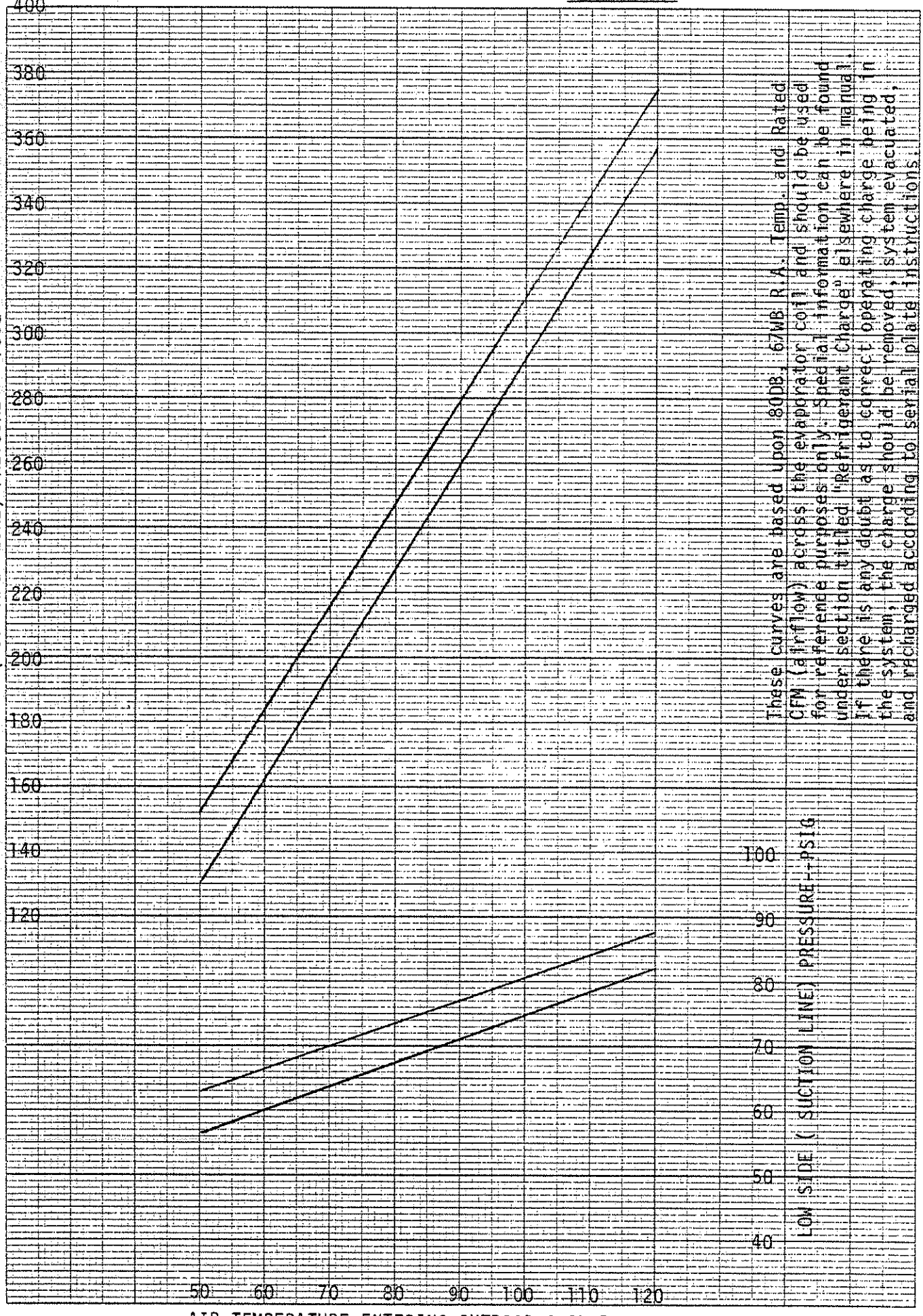
Some form of crankcase heat is essential to prevent liquid refrigerant from migrating to the compressor, causing oil pump out on compressor start-up and possible valve failure due to compressing a liquid.

Refer to unit wiring diagram to find exact type of crankcase heater used.

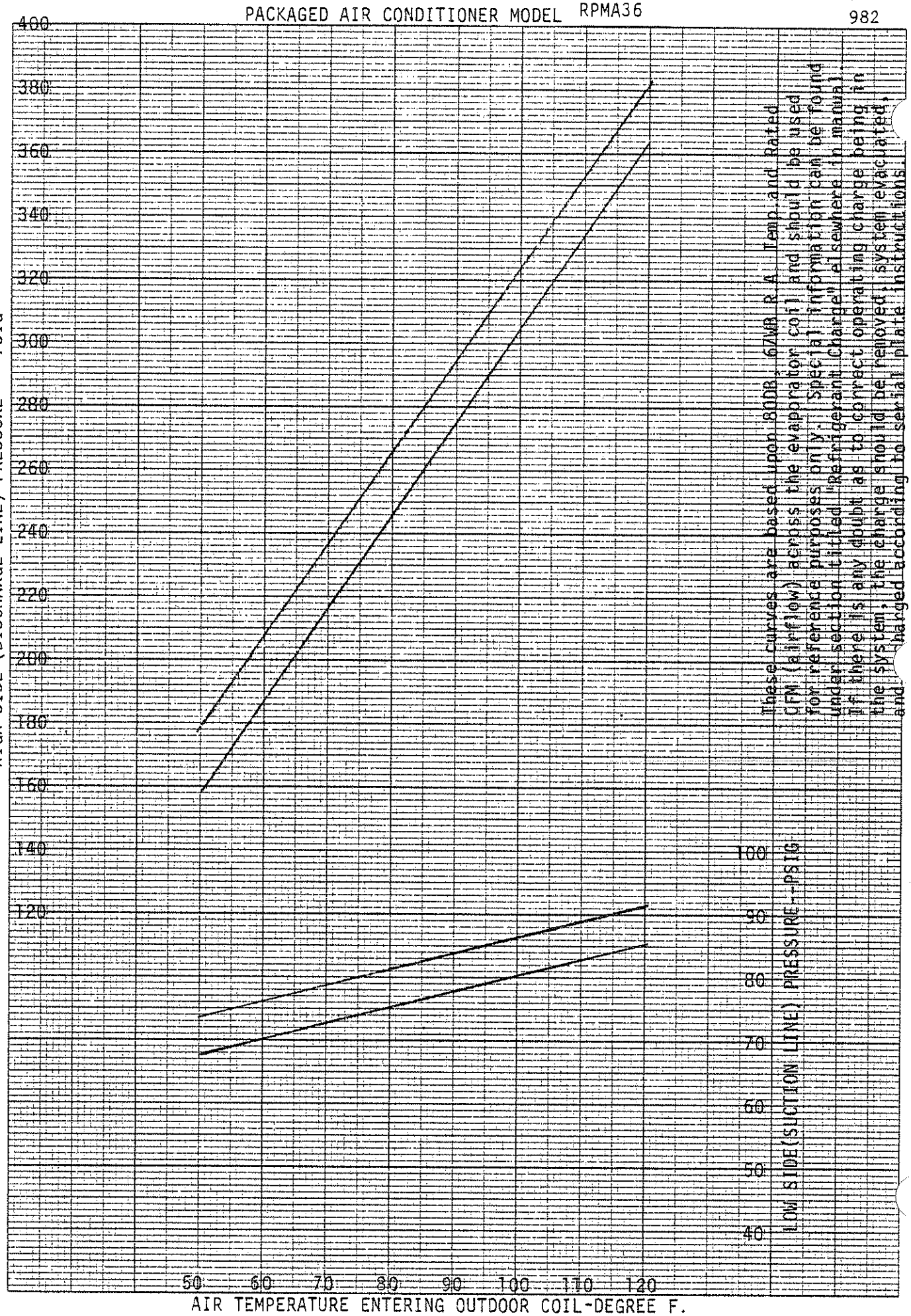
The following decal is affixed to all outdoor units detailing start-up procedure. This is very important. Please read carefully.



PACKAGED AIR CONDITIONER MODEL RPMA30



PACKAGED AIR CONDITIONER MODEL RPMA36



These curves are based upon 80DB, 67WB R.A. Temp. and Rated CFM (airflow) across the evaporator coil and should be used for reference purposes only. Special information can be found under section titled "Refrigerant Charge" elsewhere in manual. If there is any doubt as to correct operating charge being in the system, the charge should be removed, system evacuated, and charged according to serial plate instructions.

PARTS LIST

SINGLE PACKAGE AIR CONDITIONERS

PART NO.	DESCRIPTION	RPMA30	RPMA30-3	RPMA36	RPMA36-3	RPMA30-3 460V	RPMA36-3 460V
*	Blower Housing	x	x	x	x	x	x
5152-005	Blower Wheel DD9-8A	x	x			x	
5152-010	Blower Wheel DD10-7A			x	x		x
8552-032	Capacitor-Comp. 35/370V	x					
8552-033	Capacitor-Comp. 20/370V	x		x			
8552-019	Capacitor - Blower 5/440V	x	x	x	x	x	x
8552-002	Capacitor - Fan 5/370V	x	x	x	x	x	x
8552-035	Capacitor - Comp. 40/370V			x			
5811-031	Capillary Tube	(3)	(3)			(3)	
5811-017	Capillary Tube			(2)	(2)		(2)
8000-042	Compressor 700411-06-0265	x					
8000-053	Compressor CRG1-0250-TF5-270		x				
8000-054	Compressor CRG1-0250-TFD-270					x	
8000-055	Compressor CRH3-0275-PFV-270			x			
8000-056	Compressor CRH3-0275-TF5-270				x		
8000-057	Compressor CRH3-0275-TFD-270						x
5051-023	Condenser Coil	x	x	x	x	x	x
8401-007	Contactor 1P25A	x		x			
8401-002	Contactor 3P25A		x		x	x	x
8401-006	Contactor (Heat)	x	x	x	x		
5060-012	Evaporator Coil	x	x			x	
5060-022	Evaporator Coil			x	x		x
5151-024	Fan Blade A-1831-5 ccw	x	x	x	x	x	x
7051-014	Fan Guard	x	x	x	x	x	x
8614-017	Fuse Block	x		x			
8614-018	Fuse Block	x		x			
8614-006	Fuse OT30	x		x			
8614-007	Fuse OT60	x		x			
8614-022	Fuse TR60	x		x			
8604-023	Heat Strip 5Kw	x		x			
8604-024	Heat Strip 10Kw	x		x			
8604-025	Heat Strip 15Kw	x	x	x	x		
8604-064	Heat Strip 6Kw		x		x		
8604-035	Heat Strip 9Kw		x		x		
8604-036	Heat Strip 12Kw		x		x		
8604-065	Heat Strip 6Kw					x	x
8604-032	Heat Strip 9Kw					x	x
8604-033	Heat Strip 12Kw					x	x
8402-020	Limit Switch 135°-120°	x	x	x	x	x	x
8105-010	Motor - Blower 1/3 hp	x	x	x	x	x	x
8604-034	Heat Strip 15Kw					x	x
8103-007	Motor - Fan 1/5 hp	x	x	x	x	x	x

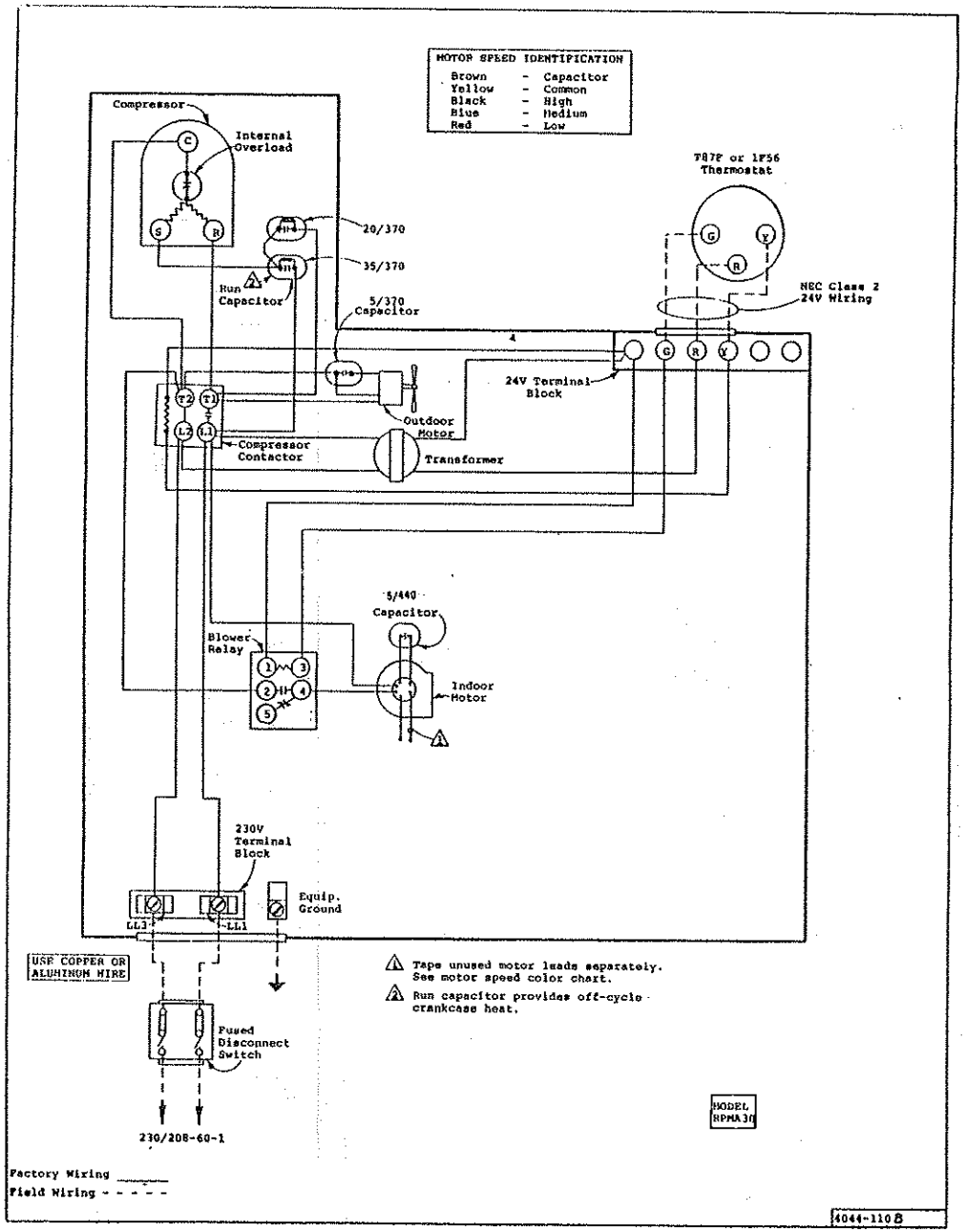
*Please order by model number . **Denotes change.

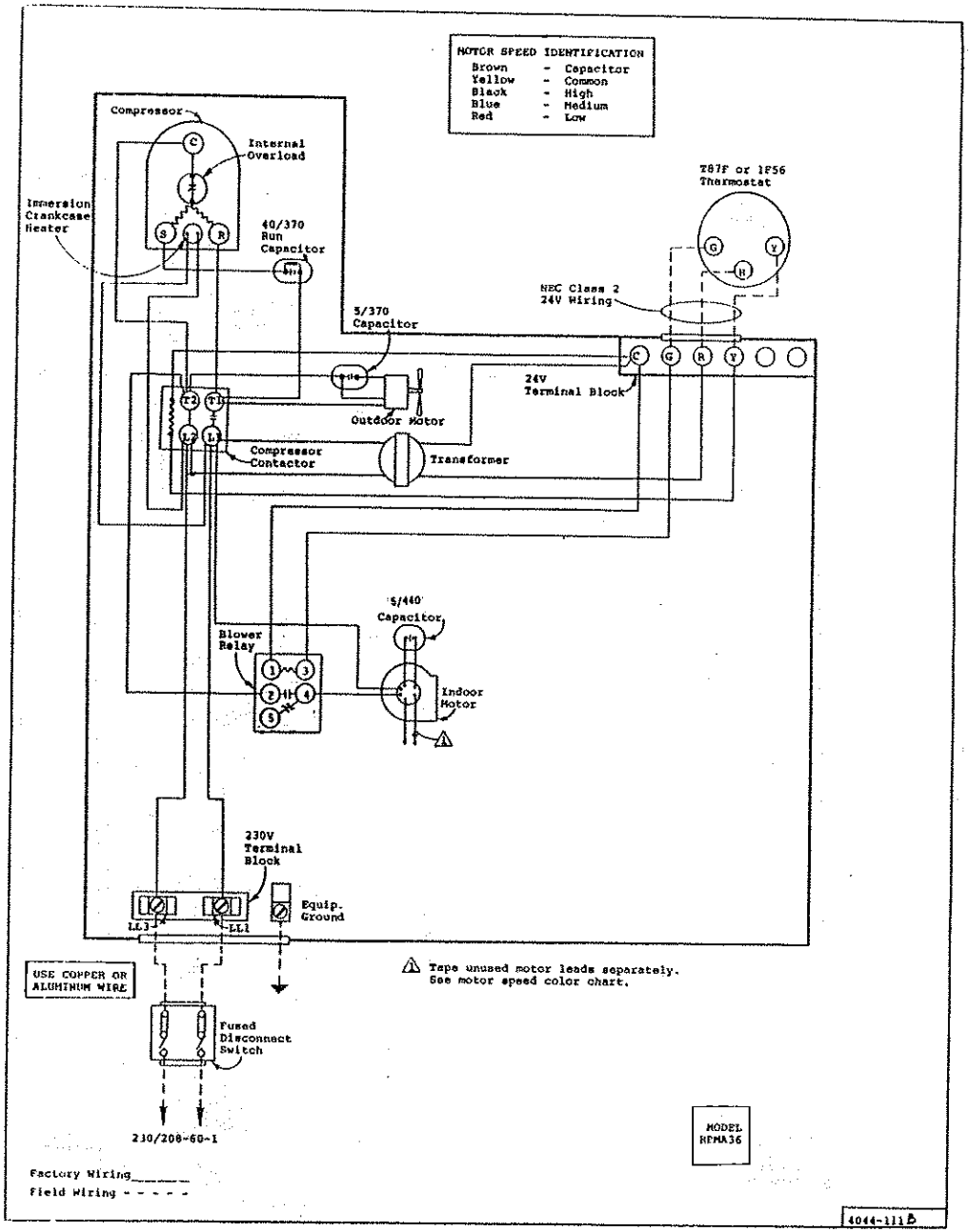
PARTS LIST

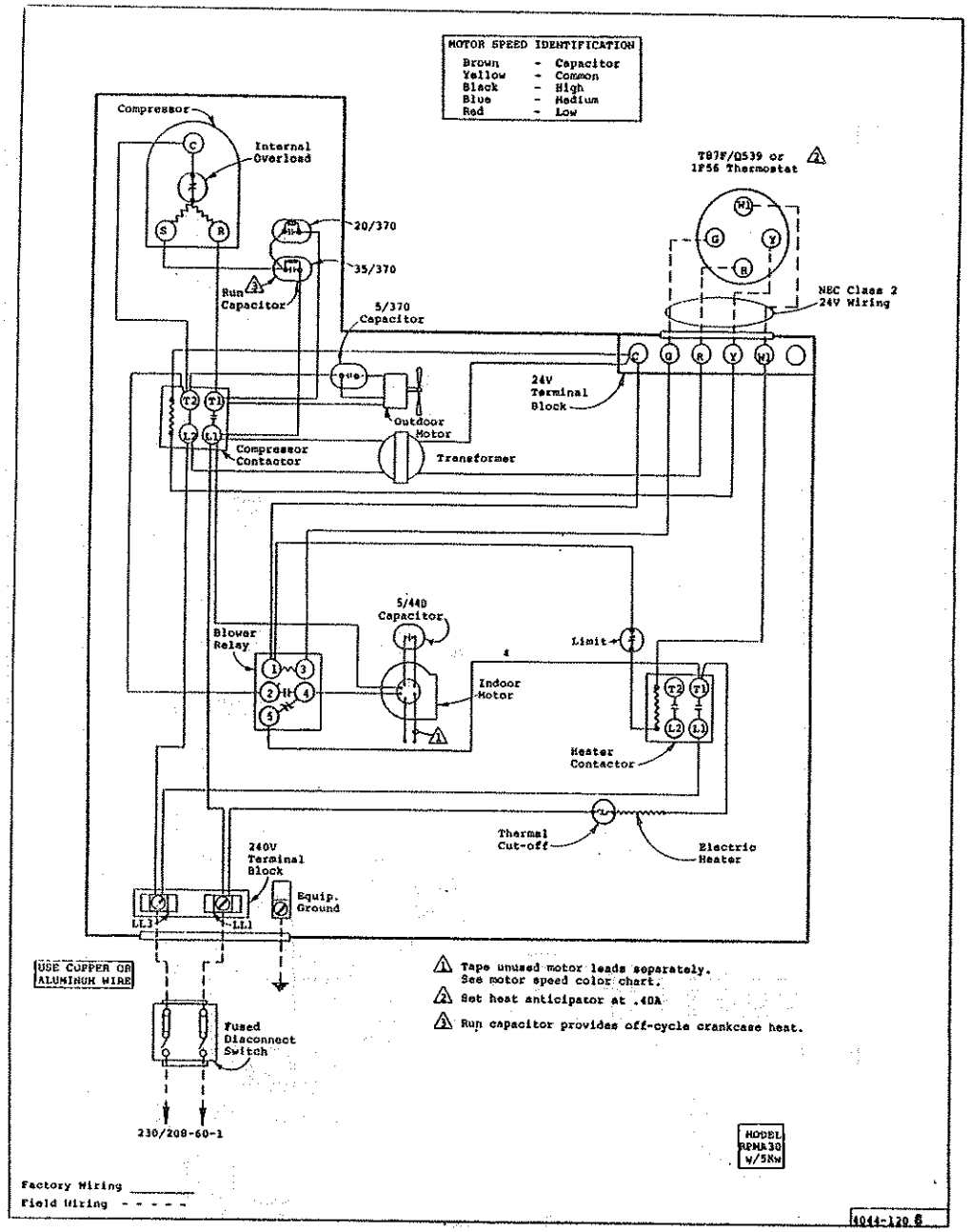
SINGLE PACKAGE AIR CONDITIONERS

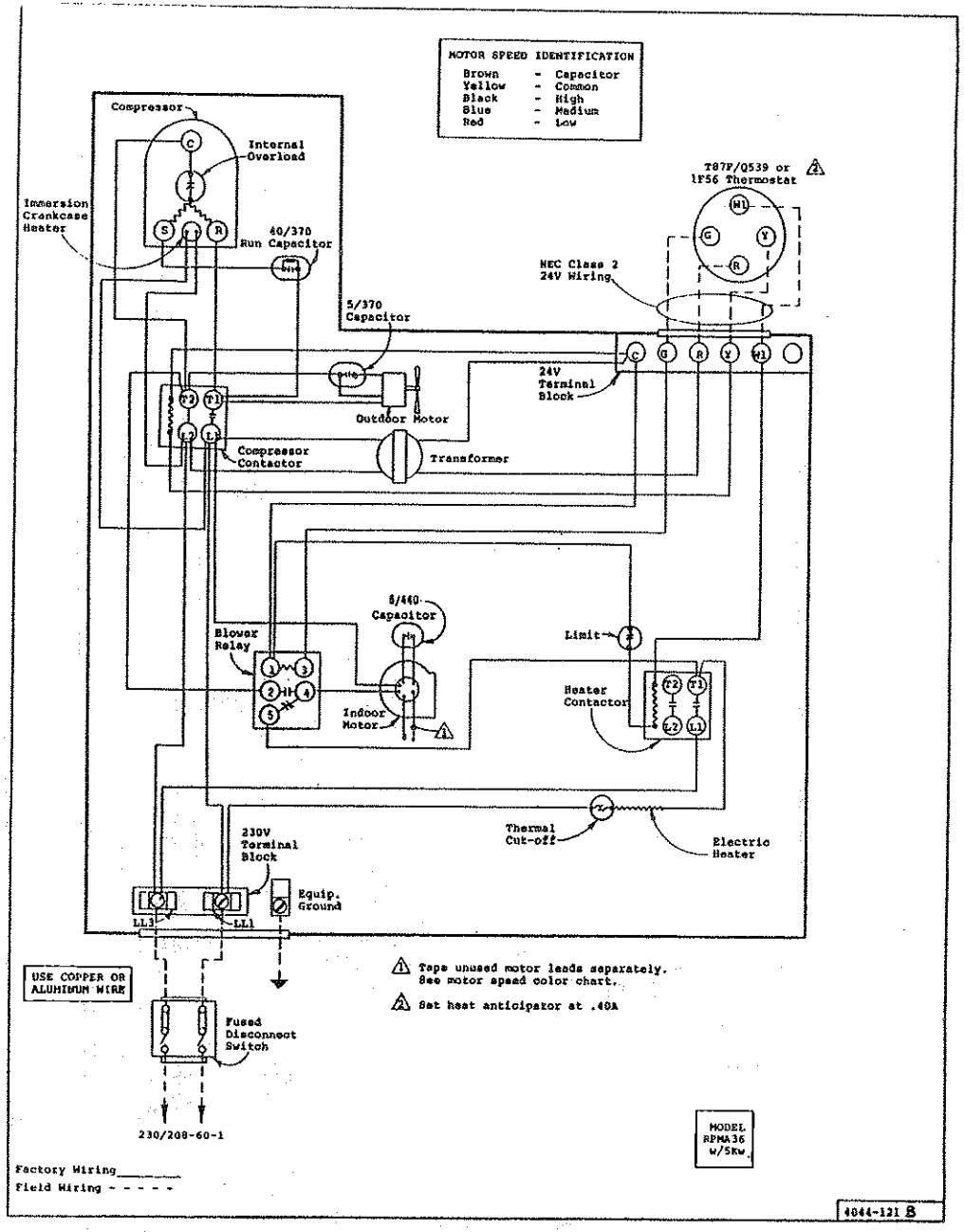
	PART NO.	DESCRIPTION	RPMA30	RPMA30-3	RPMA36	RPMA36-3	RPMA30-3 460V	RPMA36-3 460V
	8200-003	Motor Mount - Blower	x	x	x	x	x	x
	8200-022	Motor Mount - Fan	x	x	x	x	x	x
	5451-009	Motor Mounting Parts - Fan	x	x	x	x	x	x
	5451-011	Motor Mounting Parts	x	x	x	x	x	x
	5153-022	Rain Shield	x	x	x	x	x	x
	8201-009	Relay - Blower	x	x	x	x	x	x
	5210-003	Strainer	x	x			x	
	5210-004	Strainer			x	x		x
	8607-006	Terminal Board	x	x	x	x	x	x
*	8607-013	Terminal Block	x		x			
*	8607-014	Terminal Block		x		x	x	x
	8402-030	Thermal Cutoff	x	x	x	x	x	x
*	8407-034	Transformer 40VA	x	x	x	x	x	x
	8407-003	Transformer 1.5 KVA					x	x
	7004-015	Filter 24x24x1	x	x	x	x	x	x

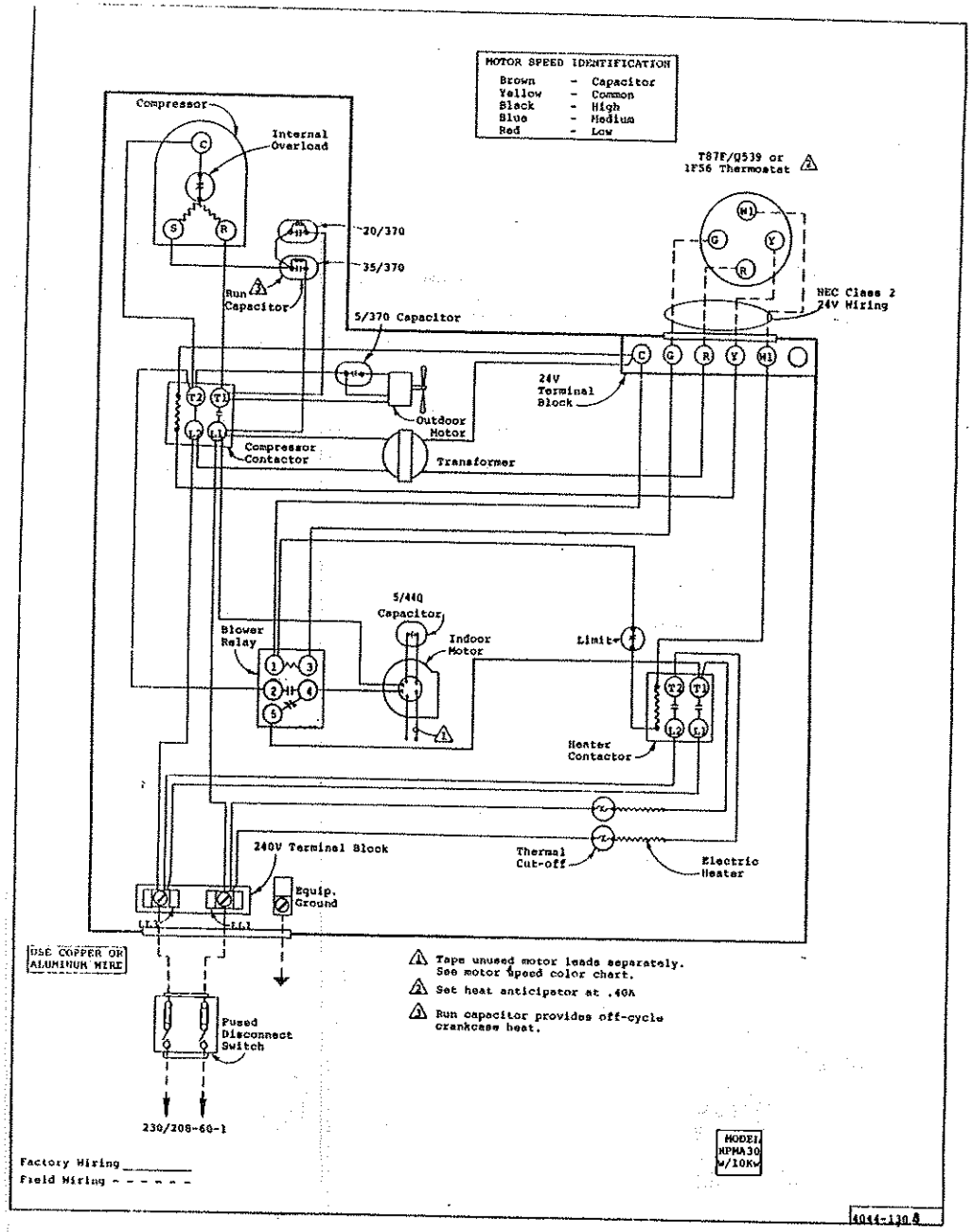
*Denotes Change.
Minimum Net Billing $15.00. Supersedes all previous lists.
Subject to change without notice.


MOTOR SPEED IDENTIFICATION
Brown - Capacitor
Yellow - Common
Black - High
Blue - Medium
Red - Low
Compressor
Internal Overload
T87F or 1F56 Thermostat
20/370
35/370
Run Capacitor
5/370 Capacitor
NEC Class 2 24V Wiring
24V Terminal Block
Outdoor Motor
Compressor Contactor
Transformer
5/440 Capacitor
Blower Relay
Indoor Motor
230V Terminal Block
Equip. Ground
USE COPPER OR ALUMINUM WIRE
Fused Disconnect Switch
230/208-60-1
Tape unused motor leads separately. See motor speed color chart.
Run capacitor provides off-cycle crankcase heat.
MODEL RPMA30
Factory Wiring
Field Wiring - - - - -
4044-110B

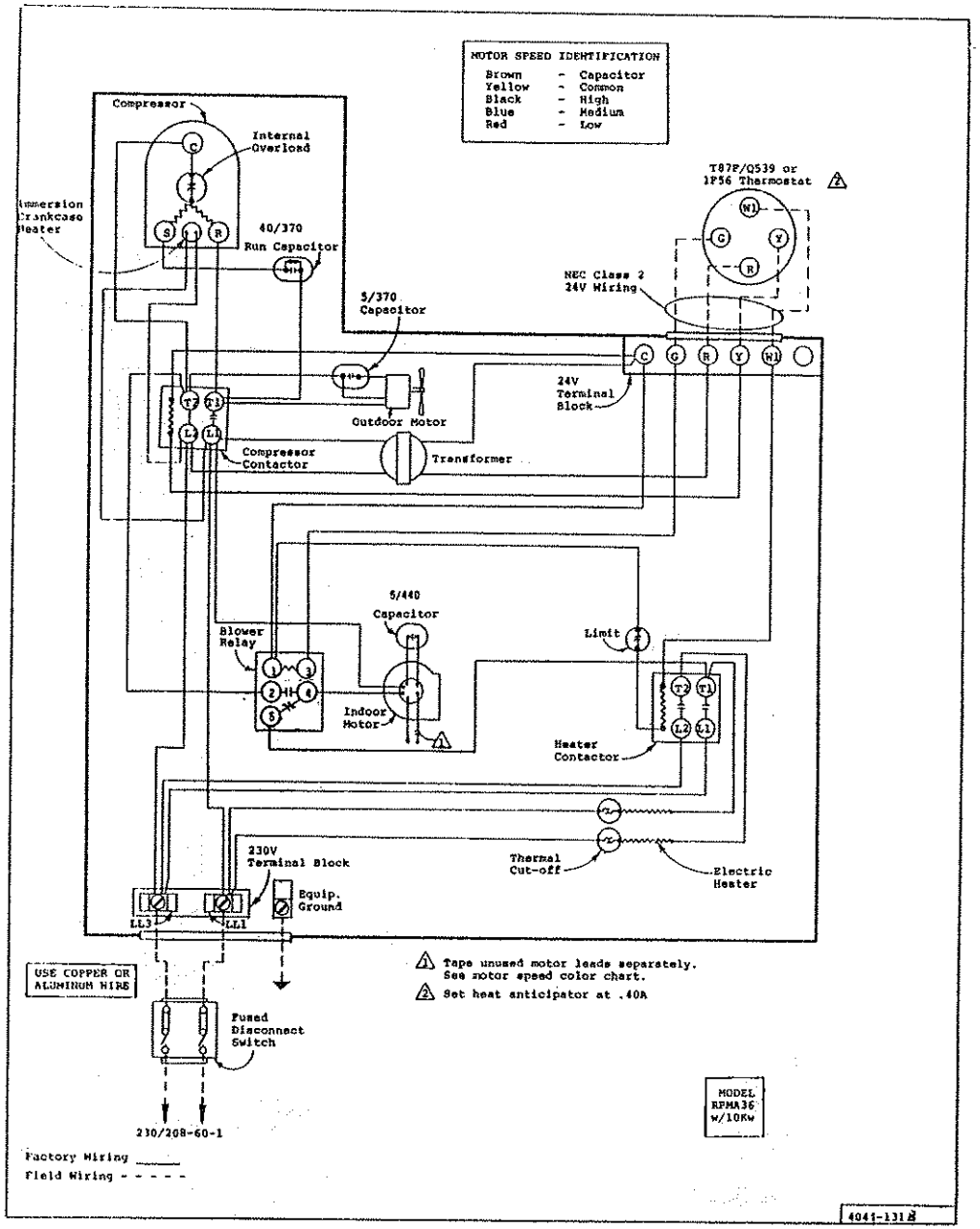

MOTOR SPEED IDENTIFICATION
Brown - Capacitor
Yellow - Common
Black - High
Blue - Medium
Red - Low
Compressor
Internal Overload
Immersion Crankcase Heater
40/370 Run Capacitor
T87F or 1F56 Thermostat
NEC Class 2 24V Wiring
5/370 Capacitor
24V Terminal Block
Outdoor Motor
Compressor Contactor
Transformer
5/440 Capacitor
Blower Relay
Indoor Motor
230V Terminal Block
Equip. Ground
USE COPPER OR ALUMINUM WIRE
Fused Disconnect Switch
230/208-60-1
Tape unused motor leads separately. See motor speed color chart.
MODEL RPMA36
Factory Wiring
Field Wiring - - - - -
4044-111B


MOTOR SPEED IDENTIFICATION
Brown - Capacitor
Yellow - Common
Black - High
Blue - Medium
Red - Low
Compressor
Internal Overload
T87F/Q539 or 1F56 Thermostat
20/370
35/370
Run Capacitor
5/370 Capacitor
NEC Class 2 24V Wiring
24V Terminal Block
Outdoor Motor
Compressor Contactor
Transformer
5/440 Capacitor
Blower Relay
Indoor Motor
Limit
Heater Contactor
Thermal Cut-off
Electric Heater
240V Terminal Block
Equip. Ground
USE COPPER OR ALUMINUM WIRE
Fused Disconnect Switch
230/208-60-1
Tape unused motor leads separately. See motor speed color chart.
Set heat anticipator at .40A
Run capacitor provides off-cycle crankcase heat.
MODEL RPMA30 w/5Kw
Factory Wiring
Field Wiring - - - - -
4044-120 B

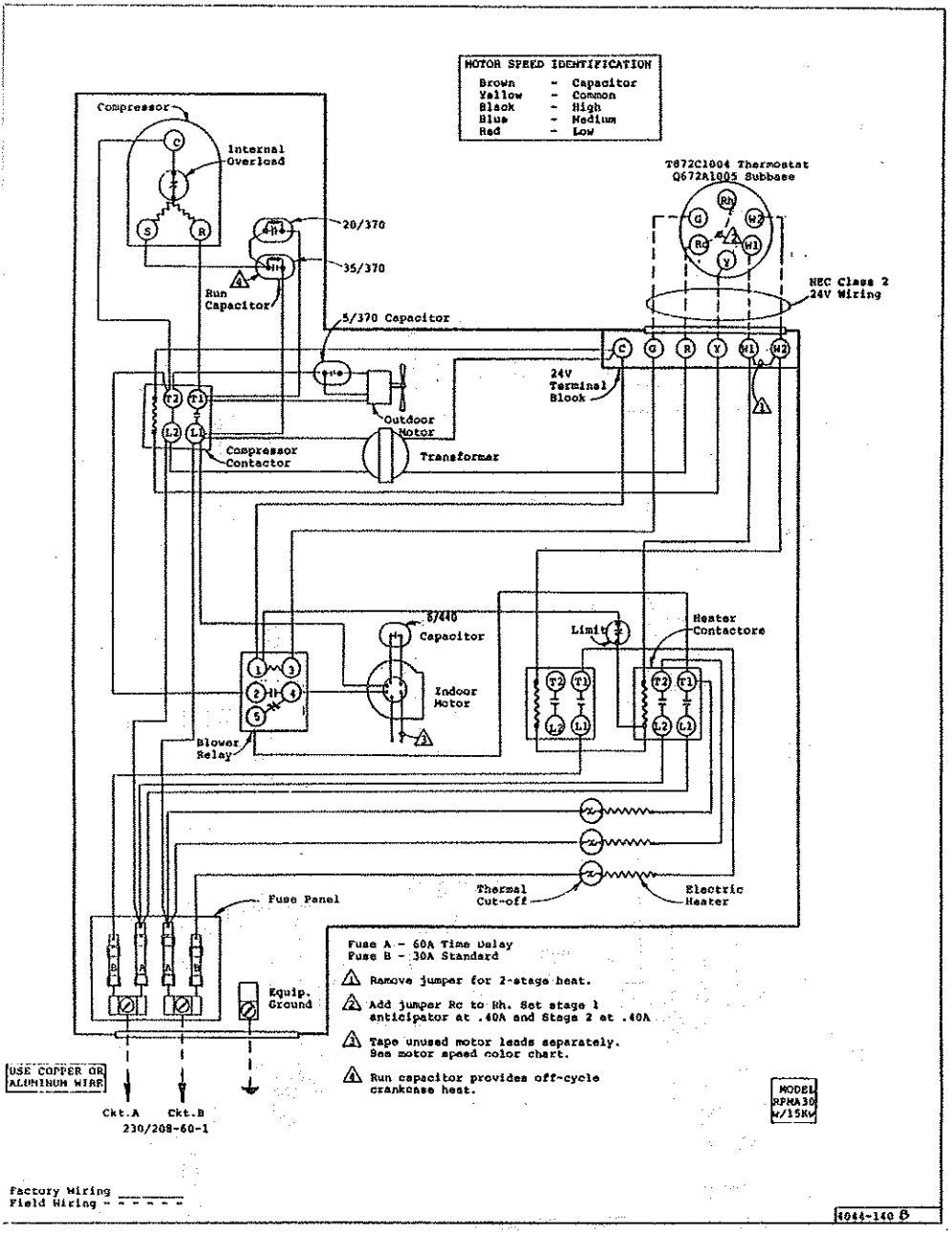

MOTOR SPEED IDENTIFICATION
Brown - Capacitor
Yellow - Common
Black - High
Blue - Medium
Red - Low
Compressor
Internal Overload
Immersion Crankcase Heater
T87F/Q539 or 1F56 Thermostat
40/370 Run Capacitor
NEC Class 2 24V Wiring
5/370 Capacitor
24V Terminal Block
Outdoor Motor
Compressor Contactor
Transformer
5/440 Capacitor
Blower Relay
Indoor Motor
Limit
Heater Contactor
Thermal Cut-off
Electric Heater
230V Terminal Block
Equip. Ground
USE COPPER OR ALUMINUM WIRE
Fused Disconnect Switch
230/208-60-1
Tape unused motor leads separately. See motor speed color chart.
Set heat anticipator at .40A
MODEL RPMA36 w/5Kw
Factory Wiring
Field Wiring - - - - -
4044-121 B

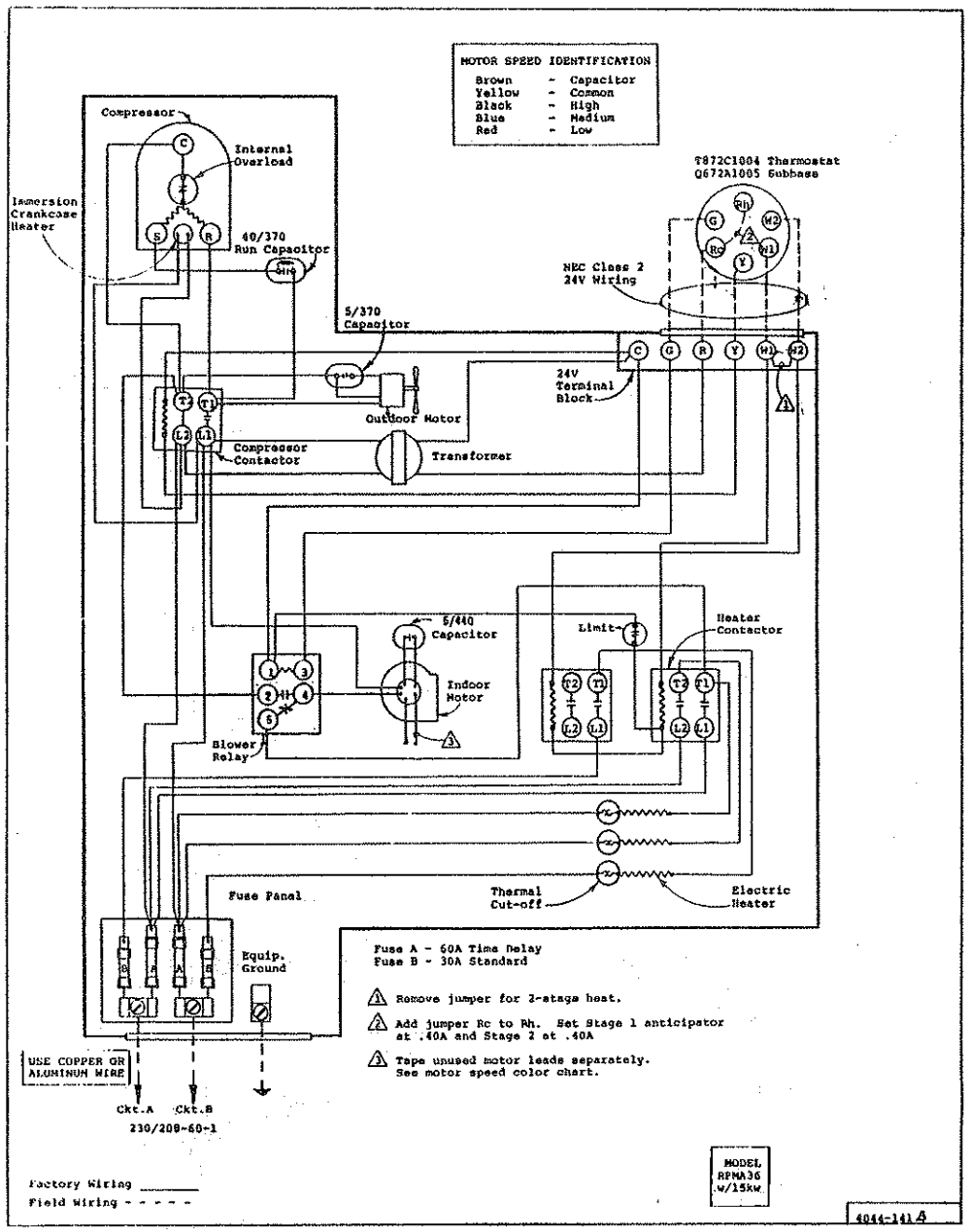


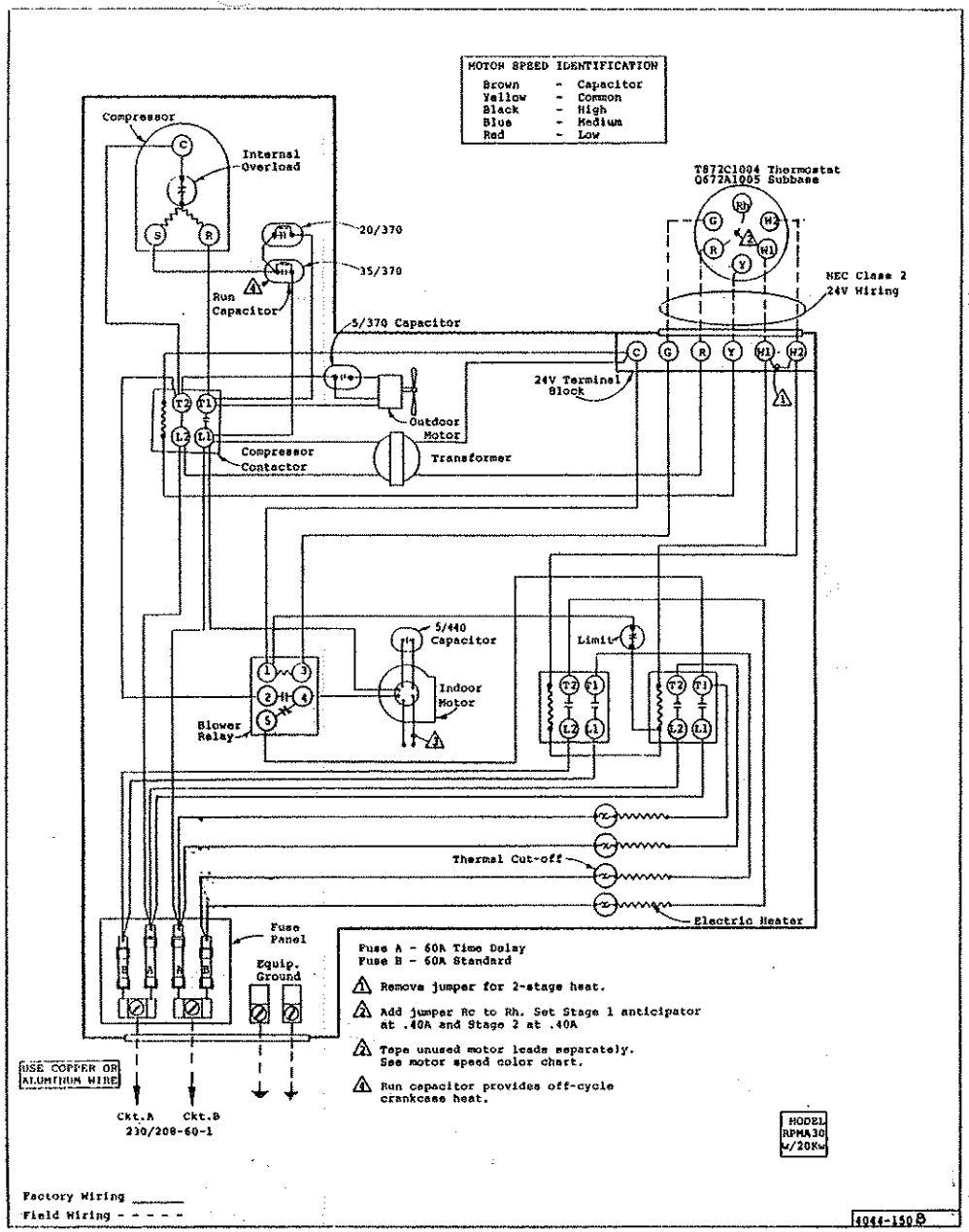
1. Tape unused motor leads separately. See motor speed color chart.
2. Set heat anticipator at .40A
3. Run capacitor provides off-cycle crankcase heat.

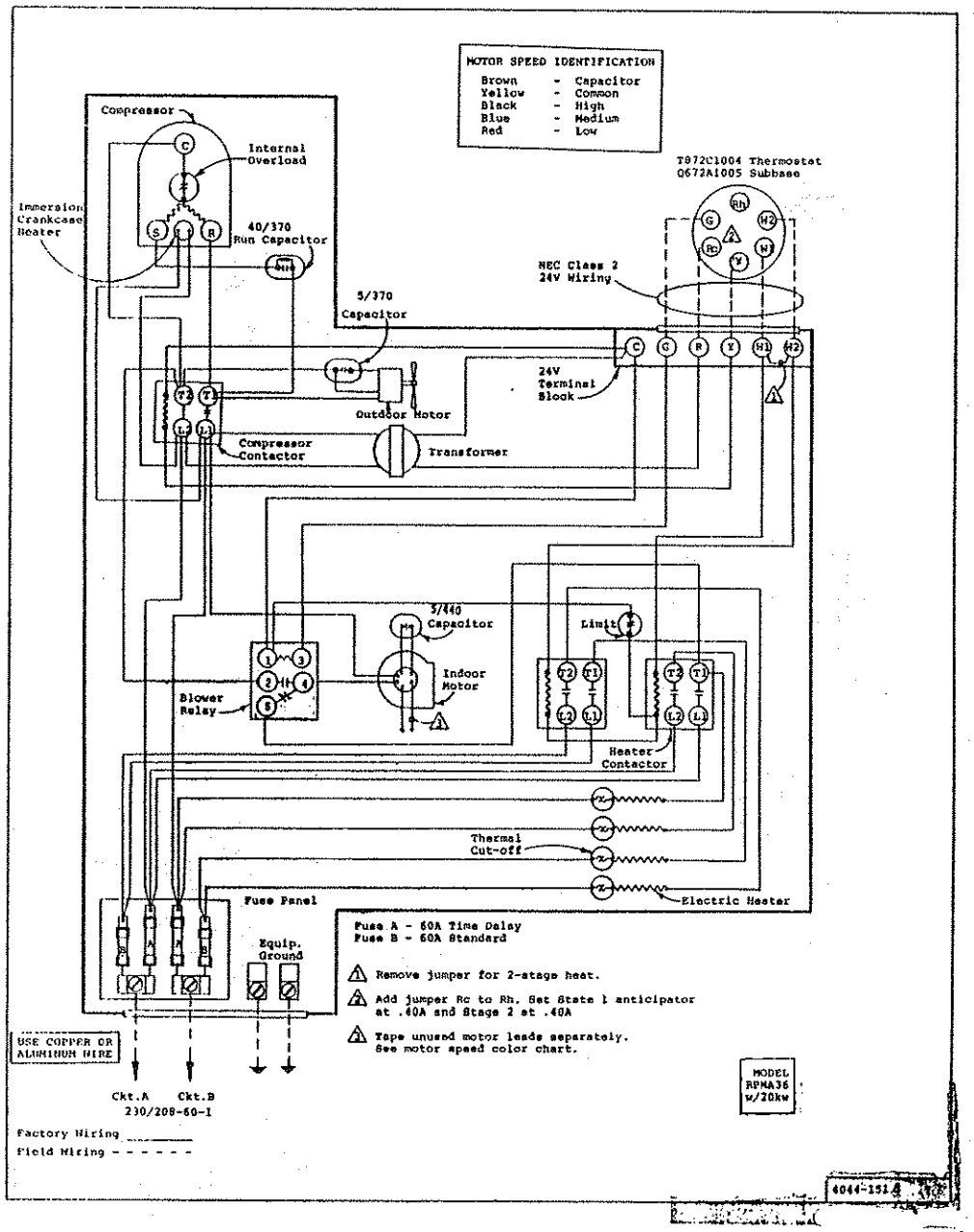


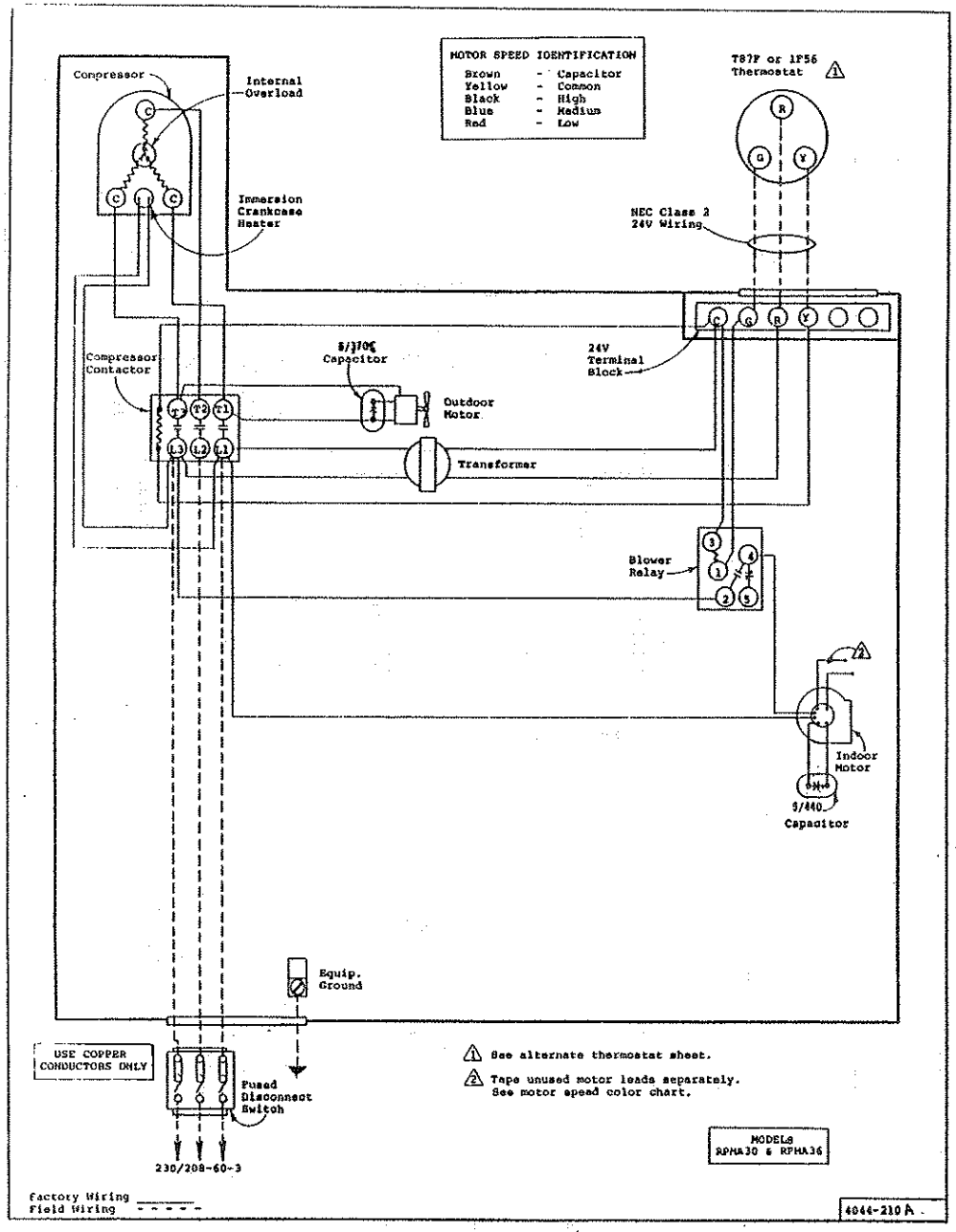
1. Tape unused motor leads separately. See motor speed color chart.
2. Set heat anticipator at .40A

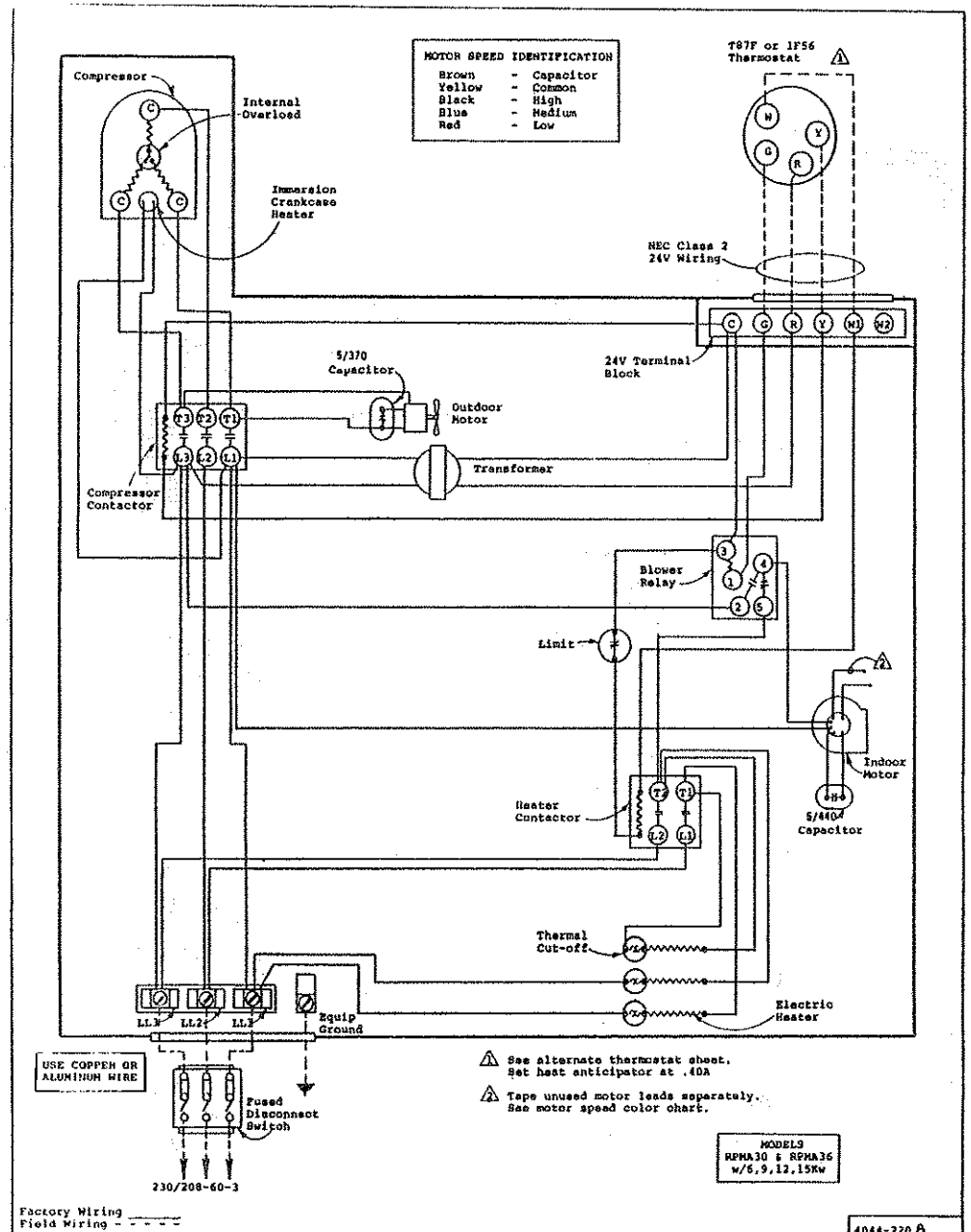

MOTOR SPEED IDENTIFICATION
Brown - Capacitor
Yellow - Common
Black - High
Blue - Medium
Red - Low
Compressor
Internal Overload
T872C1004 Thermostat
Q672A1005 Subbase
20/370
35/370
Run Capacitor
5/370 Capacitor
NEC Class 2 24V Wiring
24V Terminal Block
Outdoor Motor
Compressor Contactor
Transformer
5/440 Capacitor
Limit
Heater Contactors
Indoor Motor
Blower Relay
Thermal Cut-off
Electric Heater
Fuse Panel
Equip. Ground
Fuse A - 60A Time Delay
Fuse B - 30A Standard
1 Remove jumper for 2-stage heat.
2 Add jumper Rc to Rh. Set stage 1 anticipator at .40A and Stage 2 at .40A
3 Tape unused motor leads separately. See motor speed color chart.
4 Run capacitor provides off-cycle crankcase heat.
USE COPPER OR ALUMINUM WIRE
Ckt.A
Ckt.B
230/208-60-1
MODEL RPMA30 w/15kw
Factory Wiring
Field Wiring - - - - -
4044-140 B

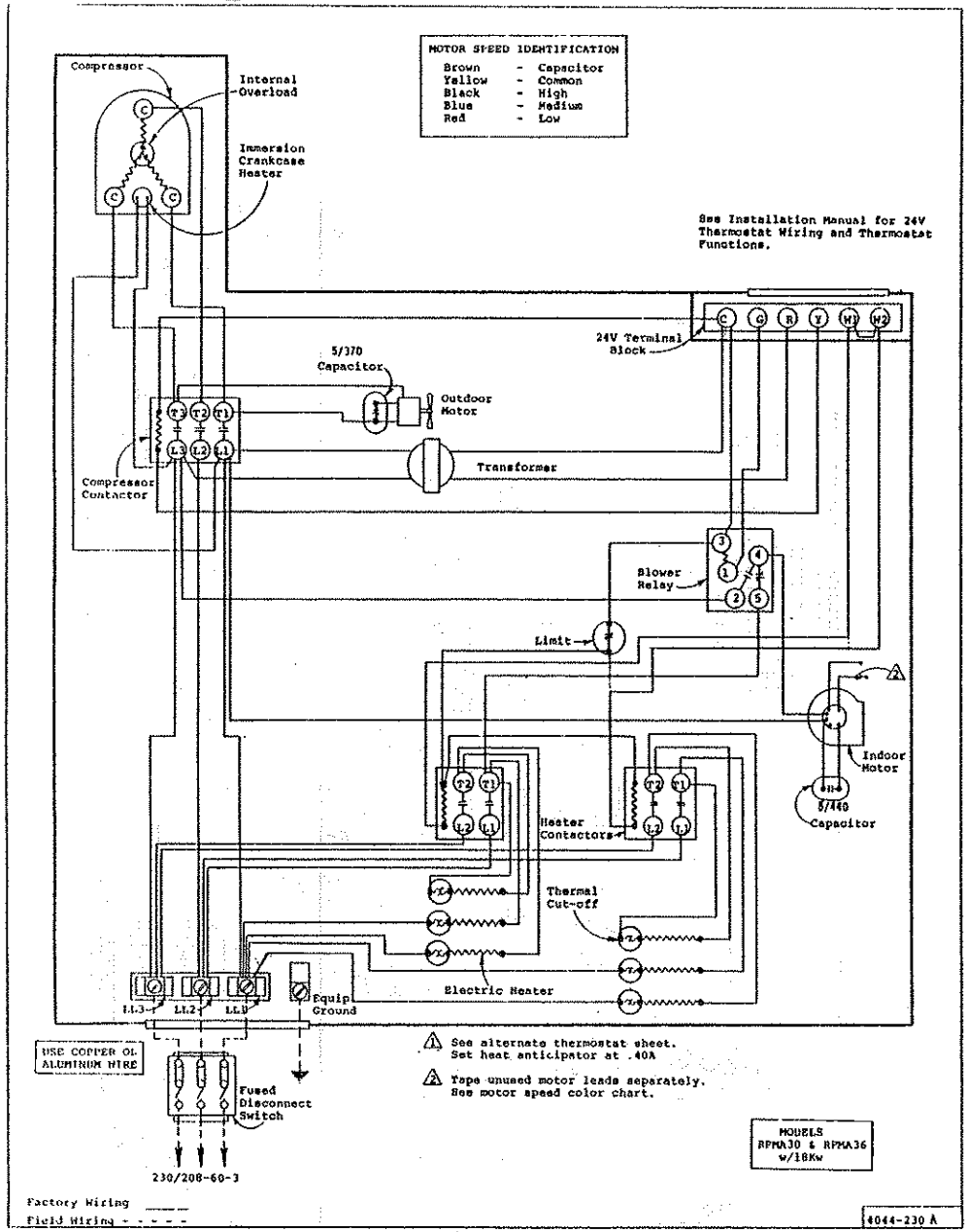

MOTOR SPEED IDENTIFICATION
Brown - Capacitor
Yellow - Common
Black - High
Blue - Medium
Red - Low
Compressor
Internal Overload
Immersion Crankcase Heater
T872C1004 Thermostat
Q672A1005 Subbase
40/370 Run Capacitor
NEC Class 2 24V Wiring
5/370 Capacitor
24V Terminal Block
Outdoor Motor
Compressor Contactor
Transformer
5/440 Capacitor
Limit
Heater Contactor
Indoor Motor
Blower Relay
Thermal Cut-off
Electric Heater
Fuse Panel
Equip. Ground
Fuse A - 60A Time Delay
Fuse B - 30A Standard
1 Remove jumper for 2-stage heat.
2 Add jumper Rc to Rh. Set Stage 1 anticipator at .40A and Stage 2 at .40A
3 Tape unused motor leads separately. See motor speed color chart.
USE COPPER OR ALUMINUM WIRE
Ckt.A
Ckt.B
230/208-60-1
MODEL RPMA36 w/15kw
Factory Wiring
Field Wiring - - - - -
4044-141 A

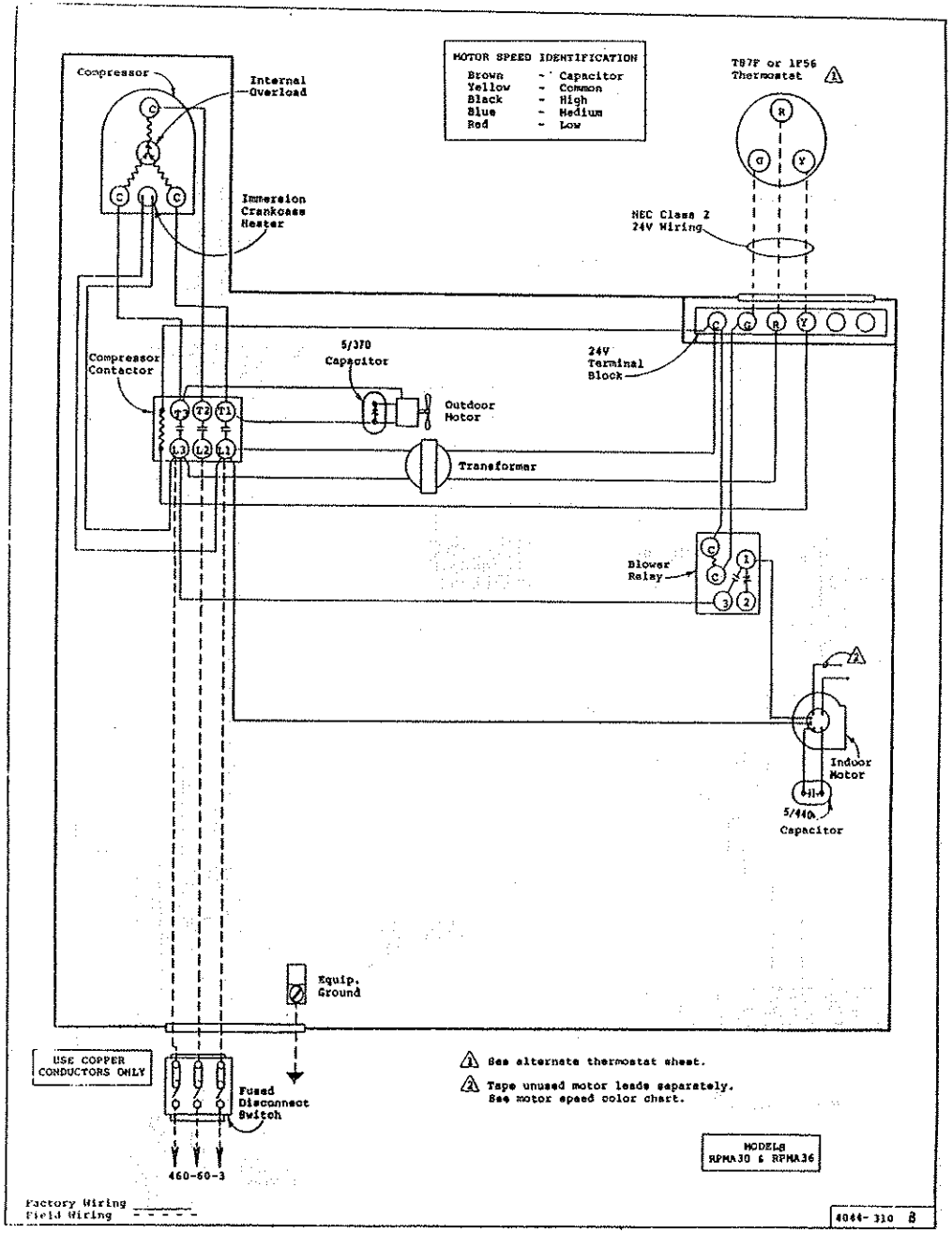

MOTOR SPEED IDENTIFICATION
Brown - Capacitor
Yellow - Common
Black - High
Blue - Medium
Red - Low
Compressor
Internal Overload
20/370
35/370
Run Capacitor
5/370 Capacitor
T872C1004 Thermostat
Q672A1005 Subbase
NEC Class 2 24V Wiring
24V Terminal Block
Outdoor Motor
Compressor Contactor
Transformer
5/440 Capacitor
Limit
Indoor Motor
Blower Relay
Thermal Cut-off
Electric Heater
Fuse Panel
Equip. Ground
Fuse A - 60A Time Delay
Fuse B - 60A Standard
1 Remove jumper for 2-stage heat.
2 Add jumper Rc to Rh. Set Stage 1 anticipator at .40A and Stage 2 at .40A
3 Tape unused motor leads separately. See motor speed color chart.
4 Run capacitor provides off-cycle crankcase heat.
USE COPPER OR ALUMINUM WIRE
Ckt.A Ckt.B
230/208-60-1
MODEL RPMA30 w/20kw
Factory Wiring
Field Wiring - - - - -
4044-150

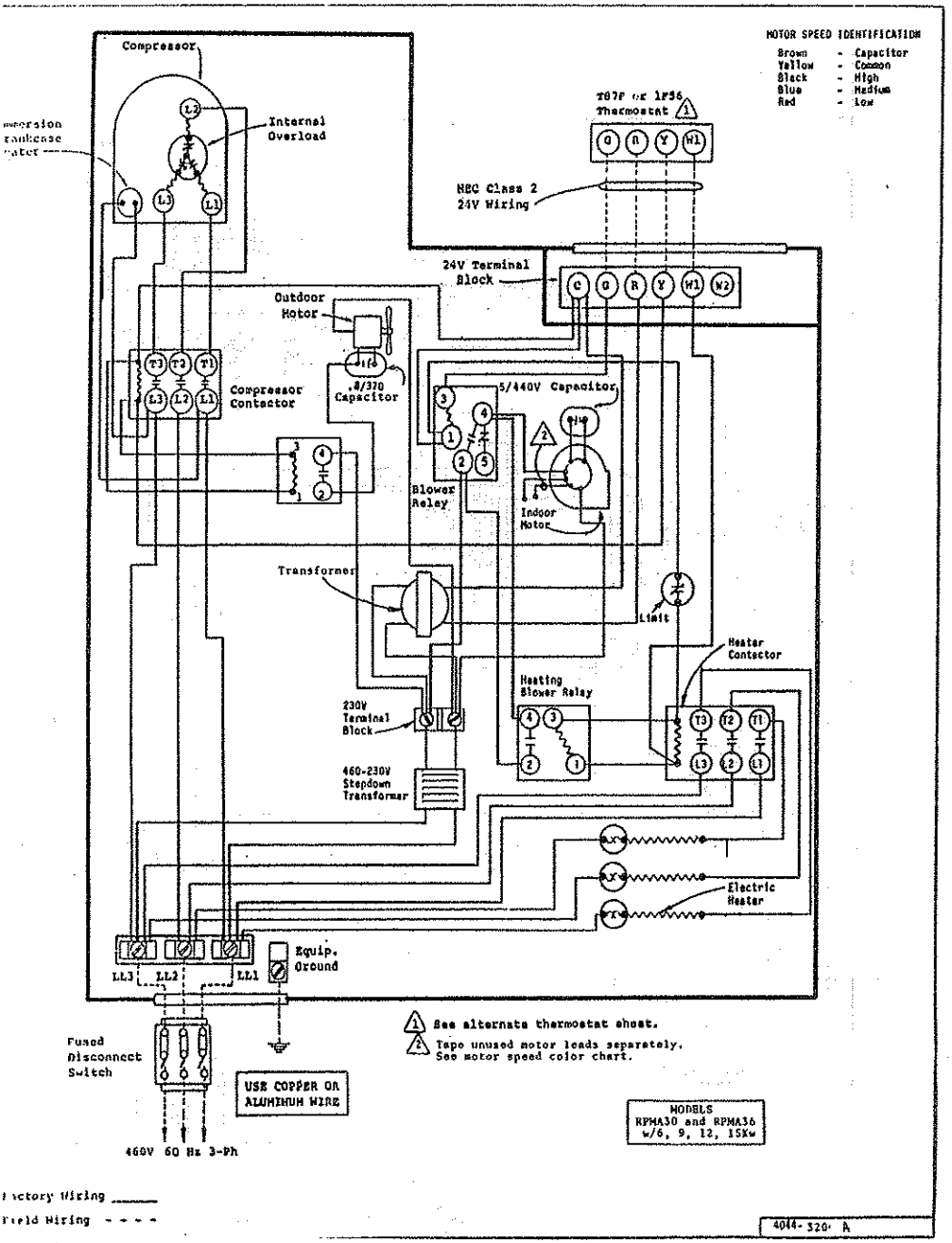

MOTOR SPEED IDENTIFICATION
Brown - Capacitor
Yellow - Common
Black - High
Blue - Medium
Red - Low
Compressor
Internal Overload
Immersion Crankcase Heater
40/370 Run Capacitor
5/370 Capacitor
T872C1004 Thermostat
Q672A1005 Subbase
NEC Class 2 24V Wiring
24V Terminal Block
Outdoor Motor
Compressor Contactor
Transformer
5/440 Capacitor
Limit
Indoor Motor
Blower Relay
Heater Contactor
Thermal Cut-off
Electric Heater
Fuse Panel
Equip. Ground
Fuse A - 60A Time Delay
Fuse B - 60A Standard
1 Remove jumper for 2-stage heat.
2 Add jumper Rc to Rh. Set State 1 anticipator at .40A and Stage 2 at .40A
3 Tape unused motor leads separately. See motor speed color chart.
USE COPPER OR ALUMINUM WIRE
Ckt.A Ckt.B
230/208-60-1
MODEL RPMA36 w/20kw
Factory Wiring
Field Wiring - - - - -
4044-151

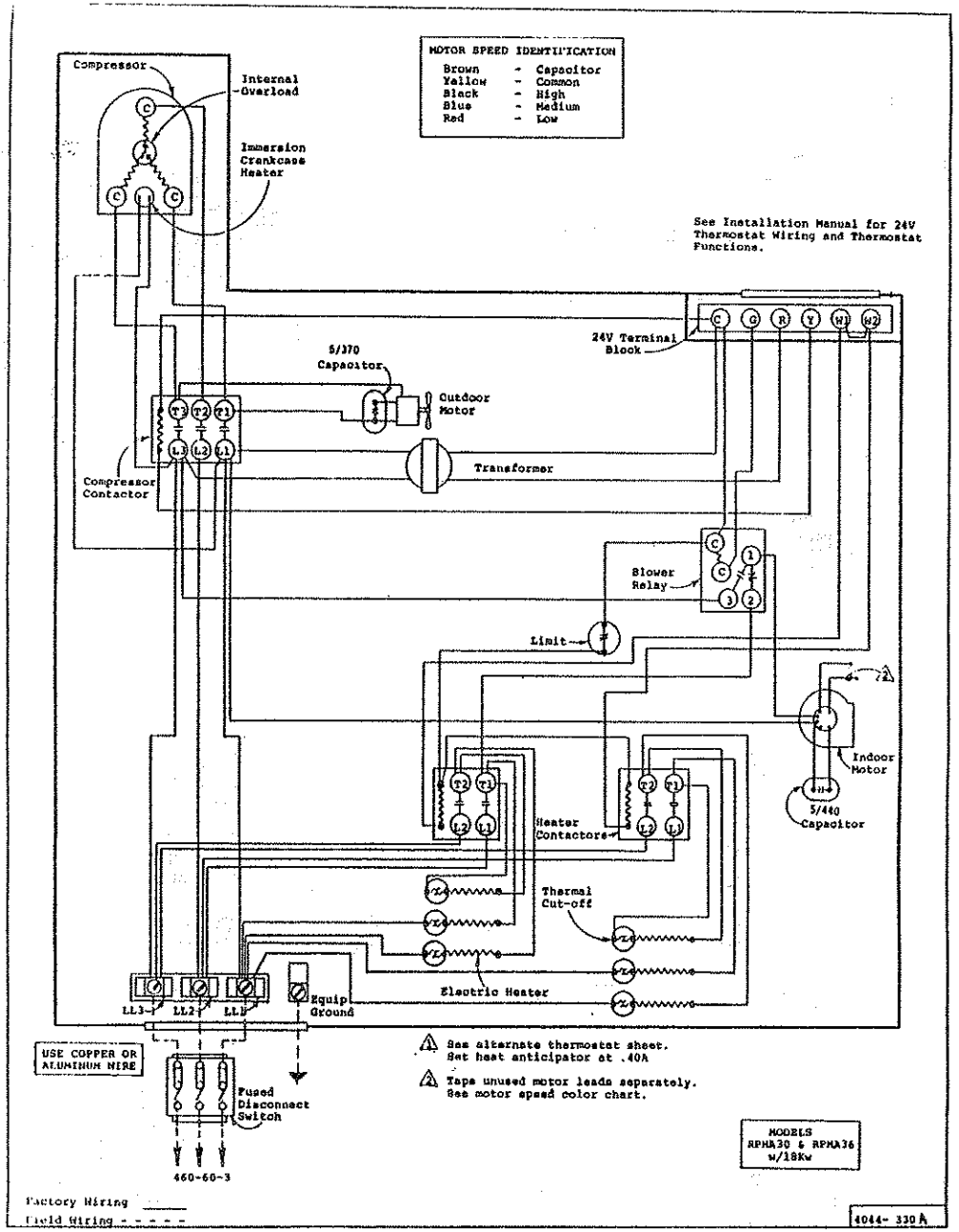

MOTOR SPEED IDENTIFICATION
Brown - Capacitor
Yellow - Common
Black - High
Blue - Medium
Red - Low
T87F or 1F56 Thermostat
Compressor
Internal Overload
Immersion Crankcase Heater
NEC Class 2 24V Wiring
Compressor Contactor
Capacitor
24V Terminal Block
Outdoor Motor
Transformer
Blower Relay
Indoor Motor
Capacitor
Equip. Ground
USE COPPER CONDUCTORS ONLY
Fused Disconnect Switch
230/208-60-3
See alternate thermostat sheet.
Tape unused motor leads separately. See motor speed color chart.
MODELS RPMA30 & RPMA36
Factory Wiring
Field Wiring
4044-210 A


MOTOR SPEED IDENTIFICATION
Brown - Capacitor
Yellow - Common
Black - High
Blue - Medium
Red - Low
T87F or 1F56 Thermostat
Compressor
Internal Overload
Immersion Crankcase Heater
NEC Class 2 24V Wiring
Compressor Contactor
Capacitor
24V Terminal Block
Outdoor Motor
Transformer
Blower Relay
Limit
Heater Contactor
Indoor Motor
Capacitor
Thermal Cut-off
Electric Heater
Equip Ground
USE COPPER OR ALUMINUM WIRE
Fused Disconnect Switch
230/208-60-3
See alternate thermostat sheet. Set heat anticipator at .40A
Tape unused motor leads separately. See motor speed color chart.
MODELS RPMA30 & RPMA36 w/6,9,12,15Kw
Factory Wiring
Field Wiring
4044-220 A


MOTOR SPEED IDENTIFICATION
Brown - Capacitor
Yellow - Common
Black - High
Blue - Medium
Red - Low
Compressor
Internal Overload
Immersion Crankcase Heater
See Installation Manual for 24V Thermostat Wiring and Thermostat Functions.
24V Terminal Block
5/370 Capacitor
Outdoor Motor
Transformer
Compressor Contactor
Blower Relay
Limit
Indoor Motor
5/440 Capacitor
Heater Contactors
Thermal Cut-off
Electric Heater
Equipt Ground
USE COPPER OR ALUMINUM WIRE
Fused Disconnect Switch
230/208-60-3
See alternate thermostat sheet. Set heat anticipator at .40A
Tape unused motor leads separately. See motor speed color chart.
MODELS RPMA30 & RPMA36 w/18Kw
Factory Wiring
Field Wiring
4044-230 A


MOTOR SPEED IDENTIFICATION
Brown - Capacitor
Yellow - Common
Black - High
Blue - Medium
Red - Low
T87F or 1F56 Thermostat
Compressor
Internal Overload
Immersion Crankcase Heater
NEC Class 2 24V Wiring
24V Terminal Block
Compressor Contactor
5/370 Capacitor
Outdoor Motor
Transformer
Blower Relay
Indoor Motor
5/440 Capacitor
Equip. Ground
USE COPPER CONDUCTORS ONLY
Fused Disconnect Switch
460-60-3
See alternate thermostat sheet.
Tape unused motor leads separately. See motor speed color chart.
MODELS RPMA30 & RPMA36
Factory Wiring
Field Wiring
4044-310 B


MOTOR SPEED IDENTIFICATION
Brown - Capacitor
Yellow - Common
Black - High
Blue - Medium
Red - Low
Compressor
Internal Overload
T87F or 1F56 Thermostat
NEC Class 2 24V Wiring
24V Terminal Block
Outdoor Motor
.8/370 Capacitor
Compressor Contactor
5/440V Capacitor
Blower Relay
Indoor Motor
Transformer
Limit
Heater Contactor
Heating Blower Relay
230V Terminal Block
460-230V Stepdown Transformer
Electric Heater
Equip. Ground
LL3
LL2
LL1
Fused Disconnect Switch
USE COPPER OR ALUMINUM WIRE
460V 60 Hz 3-Ph
See alternate thermostat sheet.
Tape unused motor leads separately. See motor speed color chart.
MODELS RPMA30 and RPMA36 w/6, 9, 12, 15Kw
Factory Wiring
Field Wiring
4044- 320 A


MOTOR SPEED IDENTIFICATION
Brown - Capacitor
Yellow - Common
Black - High
Blue - Medium
Red - Low
Compressor
Internal Overload
Immersion Crankcase Heater
See Installation Manual for 24V Thermostat Wiring and Thermostat Functions.
24V Terminal Block
5/370 Capacitor
Outdoor Motor
Transformer
Compressor Contactor
Blower Relay
Limit
Indoor Motor
5/440 Capacitor
Heater Contactors
Thermal Cut-off
Electric Heater
LL3
LL2
LL1
Equip Ground
USE COPPER OR ALUMINUM WIRE
Fused Disconnect Switch
460-60-3
See alternate thermostat sheet. Set heat anticipator at .40A
Tape unused motor leads separately. See motor speed color chart.
MODELS RPMA30 & RPMA36 w/18Kw
Factory Wiring
Field Wiring
4044- 330 A