INSTALLATION INSTRUCTIONS

WALL MOUNTED PACKAGE AIR CONDITIONERS

20WA4 24WA6

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			ELECT		INFORMATIO					**CRMATION
		Operating		Max	No. Field	Internal	Required (1)	Min. Ckt.	Field Power	Ground
	Rated	Yoltage	Heater	Unit	Power	Fuses	Overcurrent	Ampacity	Wiring	Wire Size
Model	Volts/Ph	Range	KM*	Amps	Circuits	Ckt, A/B	Protection	Ckt. A/B	Ckt. A/B	Ckt. A/B
20WA4	230/208-1	197-253	0	11.0	1		25	15	12	10
			5	22.1			30	28	10	10
			8	34.6	1		45	44	6	10
	! 		10	42.9	11		60	54	6	10
24WA6	230/208-1	197-253	0	12.5	1		25	17	12	10
			5	22.1	1		30	28	10	10
			8	34.6	1		45	44	6	10
			10	42.9	1		60	5 4	6	10
*E	lectric hea	ters are i	nominal	KH @	240V or 48	30V.	1) Time dela	y fuses of	"HACR Type"	'circuit
**B	ased on 60	degree C d	copper s	vire.	Other wir	ring	breakers	must be us	sed for 60 am	nd smaller
ma	aterials 🗪	ist be rate	ed for a	narke	l "Minimum	Circuit	sizes. S	Standard fo	uses or circu	it
Ar	npacity" or	r greater.	Not al	ll mod	iels approv	ed for	breakers	are suital	ole for sizes	: 70 or

aluminum wire.

larger.

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 design air flow requirement of the equipment. ACCA is an excellent quide 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.

INSTALLATION

Size of unit for a proposed installation should be based on heat loss calculation made according to methods of Air Conditioning Contractors of America (ACCA). 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.

DUCT WORK

Design the duct work according to methods given by the Air Conditioning Contractors of America. When duct runs through unheated spaces, it should be insulated with a minimum of one inch of insulation. Use insulation with a vapor barrier on the outside of the insulation. Flexible joints should be used to connect the duct work to the equipment in order to keep the noise transmission to a minimum.

A one-inch clearance to combustible material for the first three feet of duct attached to the outlet air frame is required. See Figure 4, Page 7 for further details.

FILTER

A one-inch throwaway filter is supplied with each unit. The filter slides into position making it easy to service. This filter can be serviced from the outside by removing the service door.

FRESH AIR INTAKE

All units are built with a fresh air inlet hole punched in the service panel. The fresh air damper assembly is shipped with each unit, and must be attached at the installation site. See Figure 3, Page 7 for typical installation procedure.

The fresh air damper assembly is standard equipment with the unit because of the variety of state or local codes requiring fresh air capability.

All capacity, efficiency and cost of operation information as required for Department of Energy "Energyguide" Fact Sheets is based upon the fresh air blank-off plate in place and is recommended for maximum energy efficiency.

The blank-off plate is available upon request from the factory and is installed in place of the fresh air damper shipped with each unit.

WALL MOUNTING

- 1. Two holes, the size of the supply and return air openings must be cut through the wall as shown in Figure 4, Page 7.
- 2. On wood-frame walls, the wall construction must be strong and rigid enough to carry the weight of the unit without transmitting any unit vibration.
- 3. Concrete block walls must be thoroughly inspected to insure that they are capable of carrying the weight of the installing unit.
- 4. Ducts through the walls must be insulated and all joints taped or sealed to prevent air or moisture entering the wall cavity.

Some installations may not require any return air duct. It is recommended that on this type of installation that a filter grille be located in the wall. Filters must be of sufficient size to allow a maximum velocity of 400 FPM.

NOTE: If no return air duct is used, applicable installation codes may limit this cabinet to installation only in a single story structure.

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 KM 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 degree 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.

FAN BLADE SETTING DIMENSIONS

Shown in the drawing below are the correct fan blade setting dimensions for proper air delivery across the outdoor coil.

Any service work requiring removal or adjustment in the fan and/or motor area will require that the dimensions below be checked and blade adjusted in or out on the motor shaft accordingly.

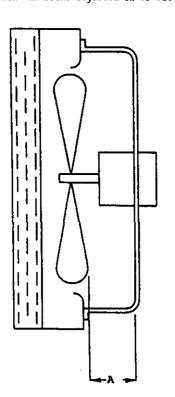


FIGURE 1

Model	Dim. A
20 WA4	1/2
24 WA6	1/2

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:

		TABLE 2	
Model	Rated Airflow	95 degree F OD Temp.	82 degree F OD Temp.
20WA4	650	55 - 57	64 - 66
24WA6	800	57 - 59	63 - 65

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

TABI	LE 3
1	er Performance il With Filter
E.S.P.	Model
Inches H20	20WA4-24WA6
.0 .1 .2 .3 .4 .5	1000 935 870 800 715 630

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.

1	T.	ABLE 4	
	RATED CFM B.S.P.	(WET COILCOO	DLING)
Model	Rated CFM	Rated B.S.P.	Recommended Airflow Range
20WA4	650	, 35	585 - 725
24WA6	82 5	.15	725 - 900

IMPORTANT INSTALLER NOTE

For improved start-up performance, wash the indoor coil with a dishwasher detergent.

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.

FIGURE 2

IMPORTANT

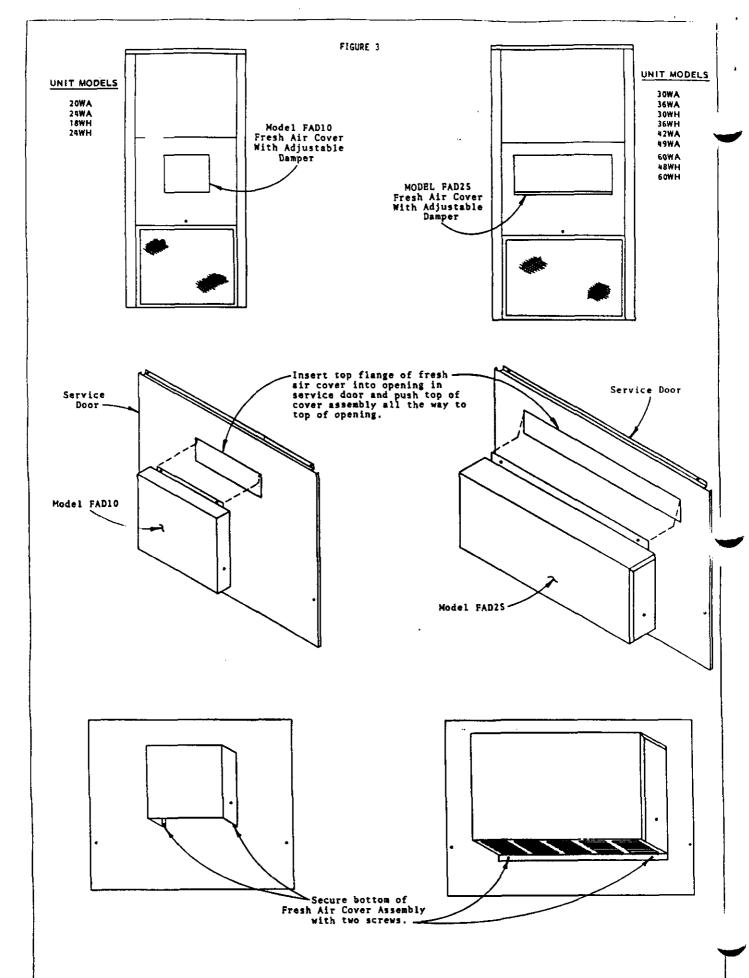
THESE PROCEDURES MUST BE FOLLOWED AT INITIAL START-UP AND AT ANY TIME POWER HAS BEEN REMOVED FOR 12 HOURS OR LONGER.

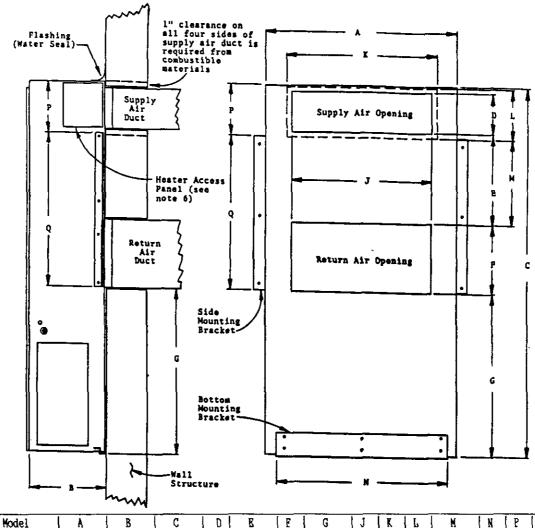
TO PREVENT COMPRESSOR DAMAGE WHICH MAY RESULT FROM THE PRES-ENCE OF LIQUID REFRIGERANT IN THE COMPRESSOR CRANKCASE

- 1, MAKE CERTAIN THE ROOM THERMO-STAT IS IN THE "OFF" POSITION, (THE COMPRESSOR IS NOT TO OPERATE),
- 2. APPLY POWER BY CLOSING THE SYSTEM DISCONNECT SWITCH. THIS ENERGIZES THE COMPRESSOR HEATER WHICH EVAPORATES THE LIQUID REFRIGERANT IN THE CRANKCASE.
- 3. ALLOW 4 HOURS OR 50 MINUTES PER POUND OF REFRIGERANT IN THE SYS-TEM AS NOTED ON THE UNIT RATING PLATE, WHICHEVER IS GREATER.
- 4. AFTER PROPERLY ELAPSED TIME THE THERMOSTAT MAY BE SET TO OPER-THE COMPRESSOR.
- 5. EXCEPT AS REQUIRED FOR SAFETY WHILE SERVICING DO NOT OPEN SYSTEM DISCONNECT SWITCH.

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NOTE: If this unit is operated in cooling below a 65 degree outdoor ambient temperature, the installation of low ambient control module is required. Use control module CGA-5 for air conditioner models,





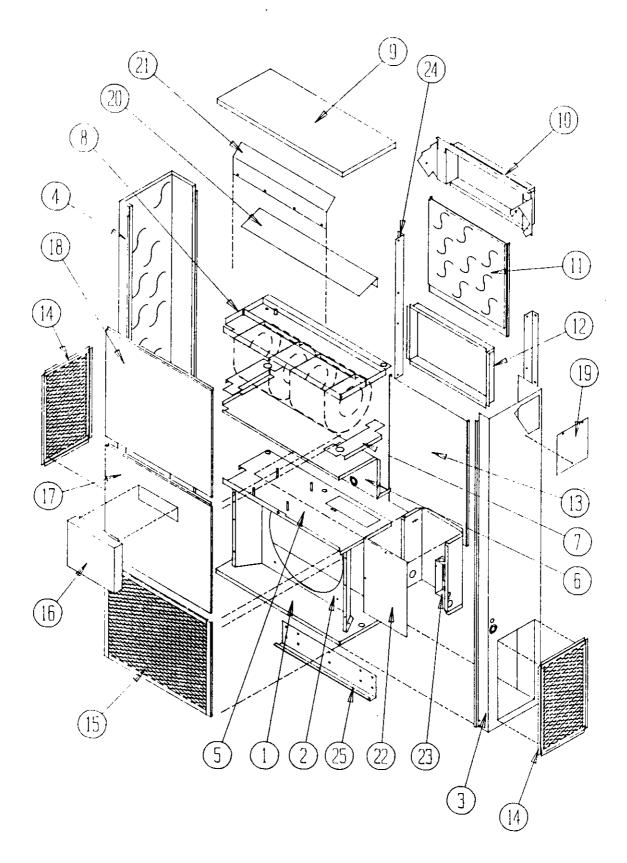
Model	A	В	С	_0_	E	F_	G	J	K	L.	M	N_	P	Q
20WA, 24WA	32-1/4	13-1/2	69-3/8	8	20-1/2	12	27-1/2	20	22	10	19-1/2	24	10	31
18WH, 24WH										l	<u>.</u>		<u> </u>	
30WA, 36WA	38-1/4	15-1/4	74	8	18	14	32-5/8	28	30	10	17	34	10	31
30WH, 36WH										L :				
42WA, 49WA, 60WA	42	22	84	10	30	16	26-5/8	30	32	12	29	34	10	42
48WE, 60WE										· 		<u></u>	<u> </u>	

MOUNTING INSTRUCTIONS

- These units are secured by wall mounting brackets which secure the unit to the outside wall surface at both sides and at the bottom.
- 2. The unit itself is suitable for "0" inch clearance, but the supply air duct flange and the first few feet of supply air duct require 1 inch clearance to combustible material. If combustible wall, use K and L dimensions for sizing, if non-combustible, use D and J.
- After the wall opening positions have been selected, lay out the position for the bottom and side brackets. Fasten the brackets securely to the wall (type of fasteners will depend on wall construction).
- 4. Be sure to observe the P dimension when attaching the side brackets. This will assure that no screws are driven into the unit sides damaging any internal parts. One-half inch sheet metal screws are recommended.
- 5. For additional mounting rigidity, the return air and supply air (depending upon wall construction) frames or collars can be drilled and screwed or welded to the structural wall itself. Be sure to observe required clearance if combustible wall.
- 6. Maintain 30 inches minimum clearance on right side of unit to allow access to heat strip.

CABINET COMPONENTS 18MH6, 24MH6, 20MA2 and 24MA6 WALL MOUNT AIR CONDITIONERS AND HEAT PUMPS

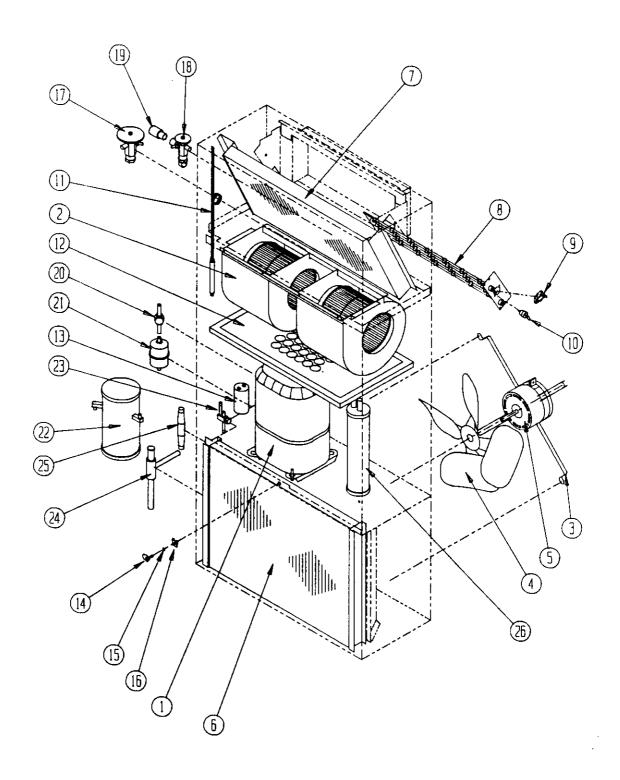
Date: 12/20/88 U S A Item Part No. Description G No. E 1 126-001 Lower Base Х 2 124-001 Fan Shroud Х 3 501-162 Right Side Assembly Х 501-163 Left Side Assembly X 5 Compressor Base Х 127-103 520-096 Compressor Partition Х 6 Х 7 130-001 Filter Support 121-089 Water Pan Assembly X 8 9 X 506-094 Тор Supply Air Frame 10 111-015 X 11 508-054 Upper Back X 12 111-016 Inlet Air Frame X 13 Lower Back X 108-055 14 119-002 Side Condenser Grille Х Х 15 119-001 Front Condenser Grille X 16 FAD10 Fresh Air Damper 17 552-106 Service Door X X 18 514-045 Upper Front X 19 542-001 Side Cover Plate 20 136-112 Byaporator Bottom Support Fill X 21 134-004 Air Baffle Х Control See Control Panel Assembly Drawing and Parts List 22 X Panel Cvr X 23 Control See Control Panel Assembly Drawing and Parts List X X Panel Asy 24 112-002 Side Mounting Bracket X 25 112-001 Bottom Support Bracket Х



18-24 WA & WH

FUNCTIONAL COMPONENTS 20WA4 WALL MOUNT AIR CONDITIONERS

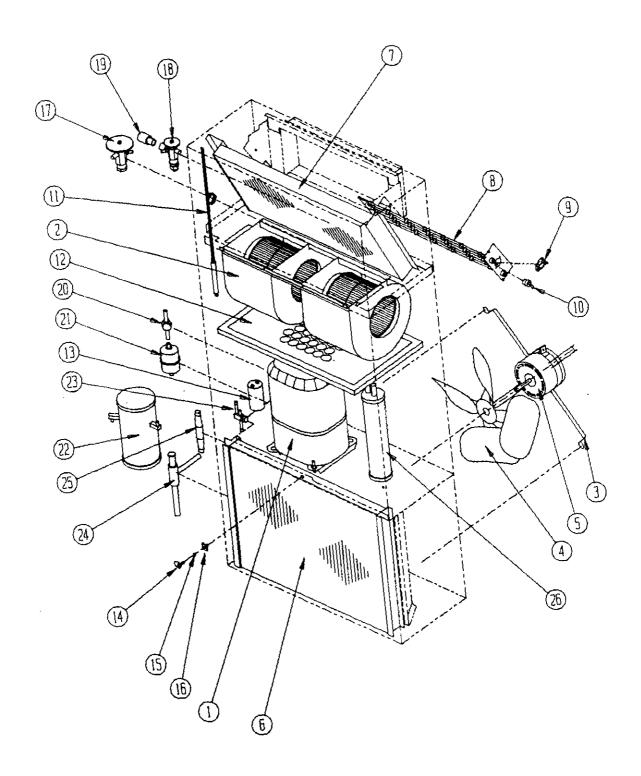
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			N	N	N	N	C	C	C	C	1
1	8000-102	Compressor H23B173ABCA	X	ж	ж	Х	Х	Х	Х	Ж	Ī
2	900-038	Blower Assembly (Complete)	Х	×	ж	Х	X	Х	Х	Х	ŀ
3	8200-023	Fan Motor Mount	Х	ж	Х	X	X	X	Х	Х	İ
4	5151-033	Fan Blade F10H8.7	Х	X	Х	Х	X	X	Х	X	
5	8103-016	Condenser Motor	Х	Х	Х	Х	X	X	Х	Х	ĺ
6	5051-036	Condenser Coil	Х	×	Х	х	Х	Х	Х	Х	İ
7	5060-048	Evaporator Coil	Х	х	х	Х	X	X	Х	Х	٠
8	8604-042	Heat Strip 5KW		Х				X	L		
8	8604-043	Heat Strip 8KW			Х				Х		
8	8604-044	Heat Strip 10KW				Х				Х	
9	8402-048	Limit Switch 160 Degree		х	Х	х		X	Х	Х	
10	8402-030	Thermal Cutoff		1	2	2		1	2	2	
11	905-0063	Capillary Assembly (3/8" x .059)	Х	Х	Х	Ж	Х	X	X	X	ĺ
12	7004-006	Filter 14x25	X	ĸ	Х	х	X	Х	X	Х	
13	8552-027	Compressor Capacitor	X	x	Х	X	X	X	Х	Х	
14	1171-019	1/4 Turn Fastener	x	X	Х	X	X	x	Х	x	Ĺ
15	1171-021	Retainer Clip	X	X.	X	Х	Х	Х	X	Х	
16	1171-020	Fastener Receptacle	×	х	X	Х	x	х	х	Х	ĺ



20-24 WA

FUNCTIONAL COMPONENTS 24WA6 WALL MOUNT AIR CONDITIONERS

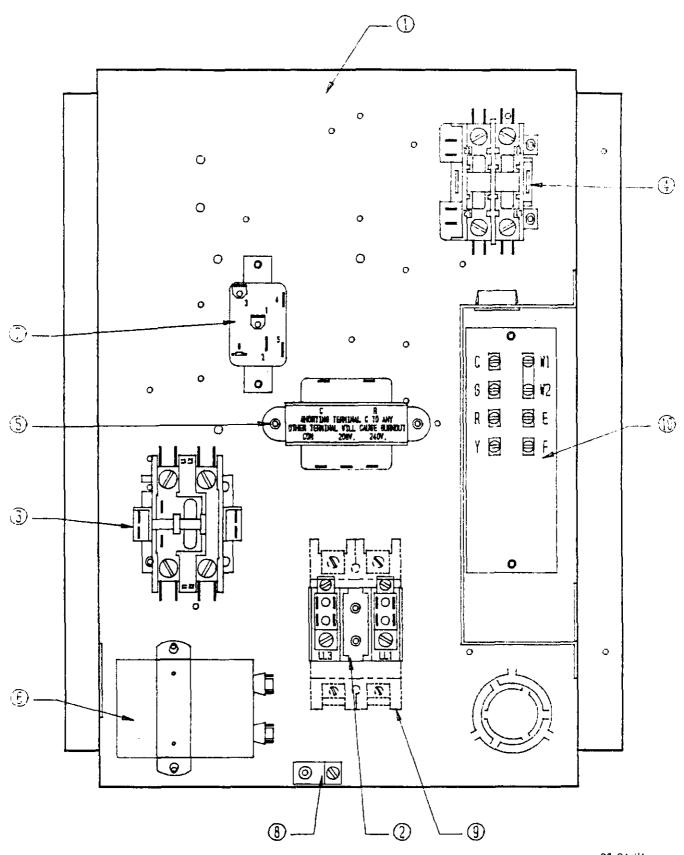
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			0	5	8	0	0	5	8	0	0	5	8	0	ı
			N	N	N	N	C	C	C	C	H	H	H	H	1
1	8000-098	Compressor H23B2O3ABCA	Х	Ж	Х	X	X	Х	Х	Х	Х	Х	ж	Х	Ţ
2	900-038	Blower Assembly (Complete)	×	x	X	Х	x	х	Х	Х	X	X	ж	Х	
· 3	8200-023	Motor MountFan	×	X	Х	Х	х	х	ж	Х	x	X	ж	Х	١
4	5151-033	Fan Blade F10H8.7	Х	x	X	X	X	X	Х	X	X	X	х	X	1
5	8103-016	MotorFan 1/5 hp	Х	х	X	Х	Х	X	х	X	Х	Х	Х	Х	Ţ
6	5051-036	Condenser Coil	l x	X	R	×	Х	Х	Х	Х	x	Х	х	Х	
7	5060-048	Evaporator Coil	×	×	ж	x	x	х	Х	R	х	х	x	Х	ŀ
8	8604-042	Heat Strip 5KW		1				1				1			l
8	8604-043	Heat Strip 8K₩		1	1				1		[1		Ţ
8	8604-044	Heat Strip 10KW			İ	1				1				1	ŀ
9	8402-048	Limit Switch 160 Degrees		x	х	х		х	X	х		x	х	X	ĺ
10	8402-030	Thermal Cutoff		1	2	2		1	2	2	-	1	2	2	1
11	905-0064	Capillary Tube Assembly (37-1/2 x .064)	2	2	2	2	2	2	2	2					Ī
12	7004-006	Filter 14x25	×	l x	х	х	х	х	х	х	×	ж	х	х	ļ
13	8552-027	Capacitor 25/370V	×	R	×	х	х	x	Х	ж	R	ж	х	Х	1
14	1171-019	1/4 Turn Fastener	X.	X	X	X	Х	X	x	X	X	X	Х	Х	1
15	1171-021	Retainer Clip	Я	Х	Я	х	Х	Х	Х	х	Х	Х	Х	Х	Ī
16	1171-020	Fastener Receptacle	x	l x	х	х	X	Х	х	x	Х	Х	х	Х	I
17	5651-064	Hot Gas Bypass Valve		1	}						х	х	х	Х	l
18	5651-038	TXV Expansion Valve		L		ĺ					X	X	Х	X	
19	5651-018	Distributor		T							Х	х	Х	Х	T
20	5201-014	Sight Glass		1		ŀ			ļ		×	х	х	Х	l
21	5201-001	Filter Drier									×	×	х	Х	l
22	5203-004	Receiver							l		x	X	х	X	
23	5651-051	Manual Shut Off Valve									X	Х	Х	Х	Ţ
24	5651-015	Head Pressure Control Valve		1							Х	х	х	Х	
25	5651-016	Pressure Differential Valve									×	x	х	х	
26	5202-013	Accumulator	j	1					l		x	×	x	x	-



20-24 WA

CONTROL PANEL 20WA4 WALL MOUNT AIR CONDITIONERS

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	4007-110	Wiring Diagram	X							i
	4007-120	Wiring Diagram		х						İ
	4007-130	Wiring Diagram			X	Х				
	4007-111	Wiring Diagram					X	<u> </u>		
[4007-121	Wiring Diagram						Х		
	4007-131	Wiring Diagram							Х	Х
1	902-0249	Complete Control Panel Assembly	X						•	İ
1	902-0252	Complete Control Panel Assembly		X				<u> </u>		<u> </u>
1	902-0256	Complete Control Panel Assembly			X	Х			'	ł
1	902-0251	Complete Control Panel Assembly				ĺ	X			l
1	902-0254	Complete Control Panel Assembly						х		
1	902-0257	Complete Control Panel Assembly	L.						Х	<u> </u>
1	902-0258	Complete Control Panel Assembly								X
2	8607-013	Terminal Block 230V		×	Х	X	,			ĺ
3	8401-007	ContactorComp. 25A	X	X	Х	Х	X	Х	X	X
4	8401-006	ContactorHeater 2P18		1	1	1		1	1	1
5	8407-034	Transformer 40VA	Х	X	Х	Х	Х	Х	X	X
6	8552-002	Capacitor 5/370V	Х	X	Х	Х	Х	Х	Х	Х
7	8201-009	RelayBlower	X	Х	Х	X	Х	X	X	X
8	8611-006	Ground Luq	X	X	X	X	X	X_	X	Х
9	8615-010	Circuit Breaker							Х	
9	8615-012	Circuit Breaker					X	ĺ		
9	8615-013	Circuit Breaker						Х		
9	8615-016	Circuit Breaker								Х
10	8607-018	Terminal Board 24V	Х	X	х	X	X	Х_	Х	Х



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CONTROL PANEL 24WA6 WALL HOUNT AIR CONDITIONERS

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	4007-110	Wiring Diagram	Ι×	ŀ							Х	ŀ		
	4007-120	Wiring Diagram		×	ľ	İ						Х		İ
	4007-130	Wiring Diagram			Х	x							Х	Х
	4007-111	Wiring Diagram	_	ļ			Х	<u> </u>						<u> </u>
	4007-121	Wiring Diagram						х						
	4007-131	Wiring Diagram	1	1					Х	X				
1	902-0249	Complete Control Panel Assembly	X								X	ŀ		
1	902-0252	Complete Control Panel Assembly	<u> </u>	Х								X		
1	902-0256	Complete Control Panel Assembly	}	'	Х	Х	·	}					X	Х
1	902-0251	Complete Control Panel Assembly			,		х							
1	902-0254	Complete Control Panel Assembly						Х	l					1
1	902-0257	Complete Control Panel Assembly	1						Х					
1	902-0258	Complete Control Panel Assembly								X				1
2	8607-013	Terminal Block 230V		Х	X	X						X	X	Х
3	8401-007	ContactorComp. 25A	Х	x	X	X	X	Х	X	Х	X	x	X	Х
4	8401-006	ContactorHeater 2P18	<u> </u>	1	1	1		1	1	1		1_	1	1
5	8407-034	Transformer 40VA	X	х	Х	X	X	X	X	Х	X	Х	X	X
6	8552-002	Capacitor 5/370V	Х	Х	Х	X	X	X	X	X	X	X	X	X
7	8201-009	RelayBlower	x	Х	X	X	X	Х	Х	X	X	X	X	Х
8	8611-006	Ground Lug	X	Х	X	X	X	X	Х	Х	X	X	Х	Х
9	8615-012	Circuit Breaker					X							
9	8615-013	Circuit Breaker	1	'				X						
9	8615-016	Circuit Breaker								Х				
9	8615-010	Circuit Breaker							Х					
10	8607-018	Terminal Board 24V	X	Х	X	X	X	Х	Х	X	X	X	X	X

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BLOWER ASSEMBLY
WALL MOUNT AIR CONDITIONERS AND HEAT PUMPS

—- _T		Date	: 12/20/88
Dwg. No.	Part No.	Description	900-038
1	5152-051	Blower Housing And Wheel Assembly	X
2	5152-028	Blower Wheel	×
3	5152-052	Blower Housing And Wheel Assembly	×
4	5152-029	Blower Wheel	Х
5	104-001	Angle	×
6	102-300	Offset	×
7	104-505	Angle Back Brace	\ x
8	8102~009	Blower Motor	
9	8200-031	Blower Motor Mount	×
10	5451-011	Grommet	×
11	8552-004	Capacitor 7.5/370V	×
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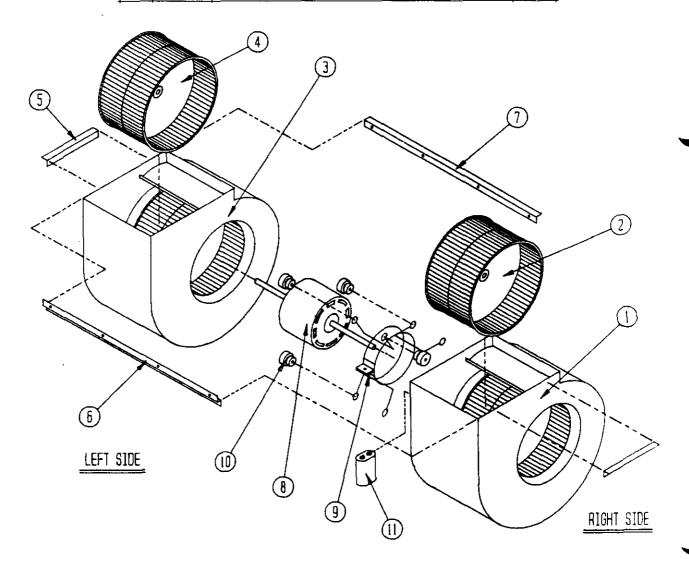
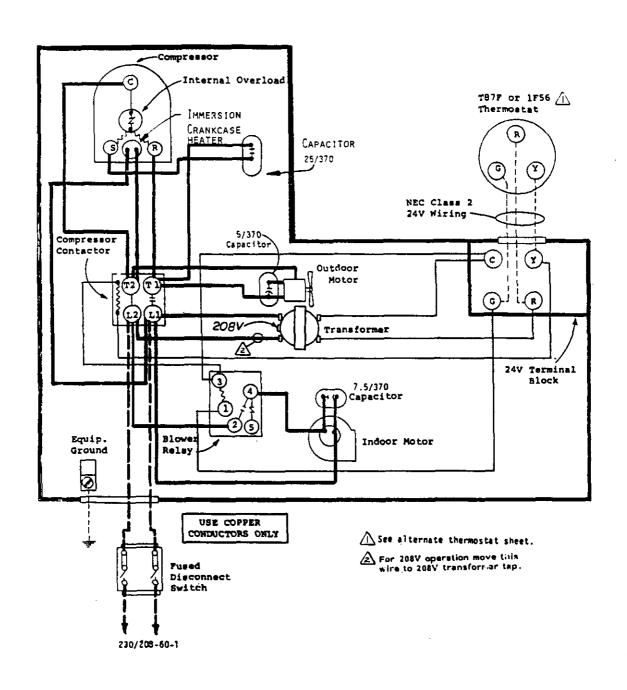
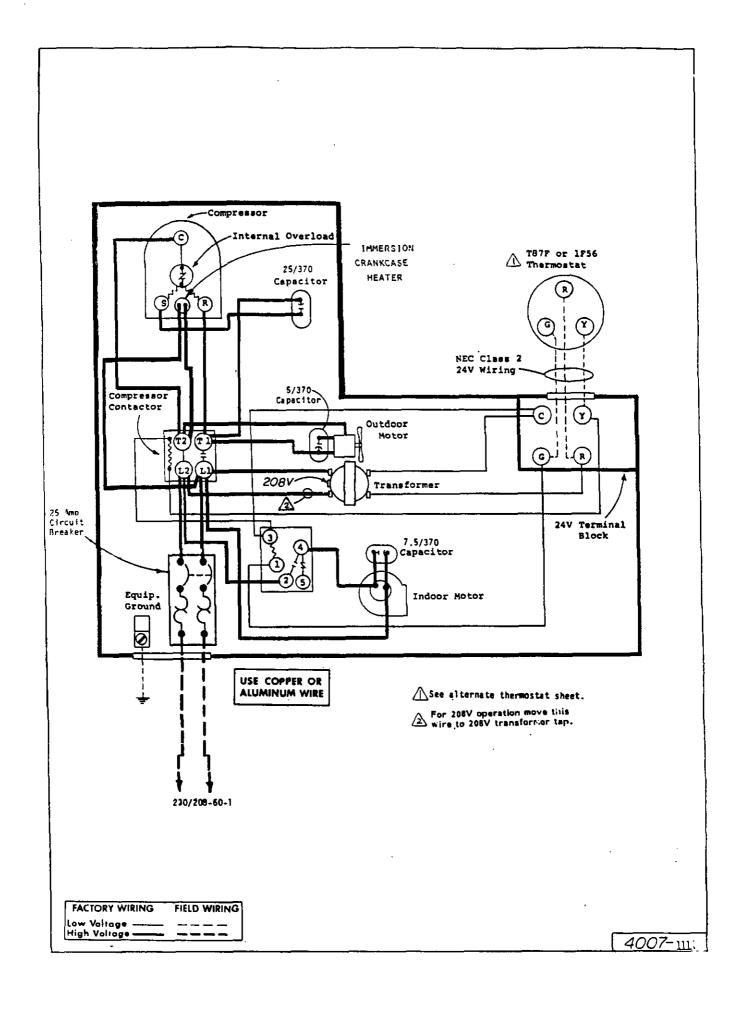
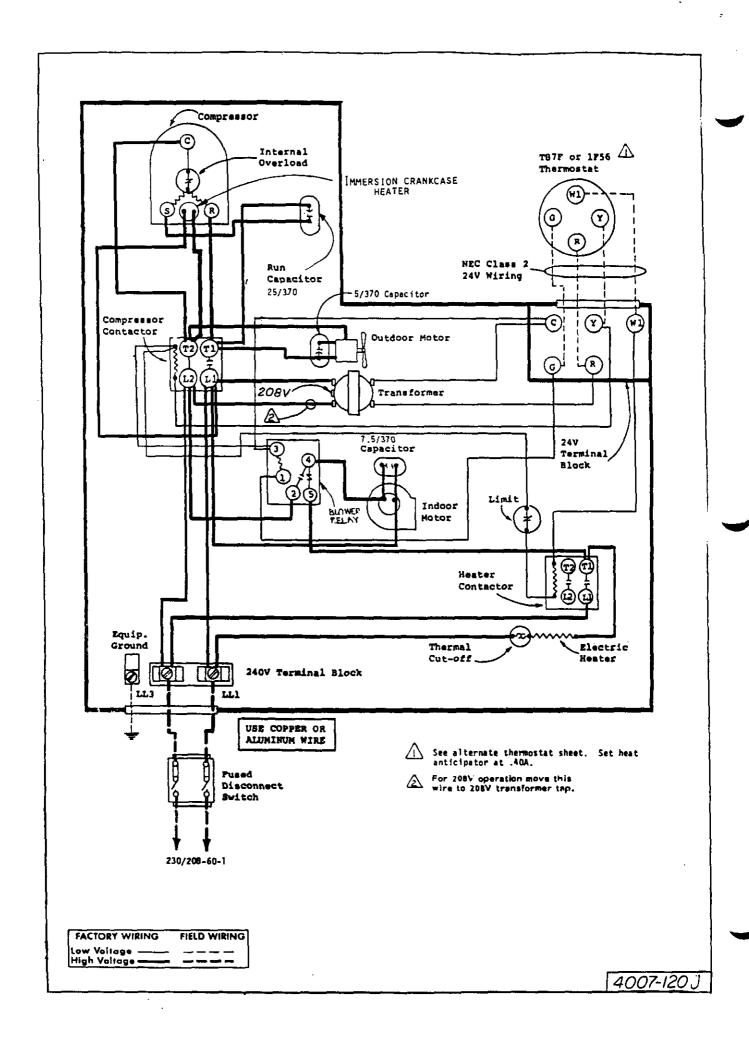


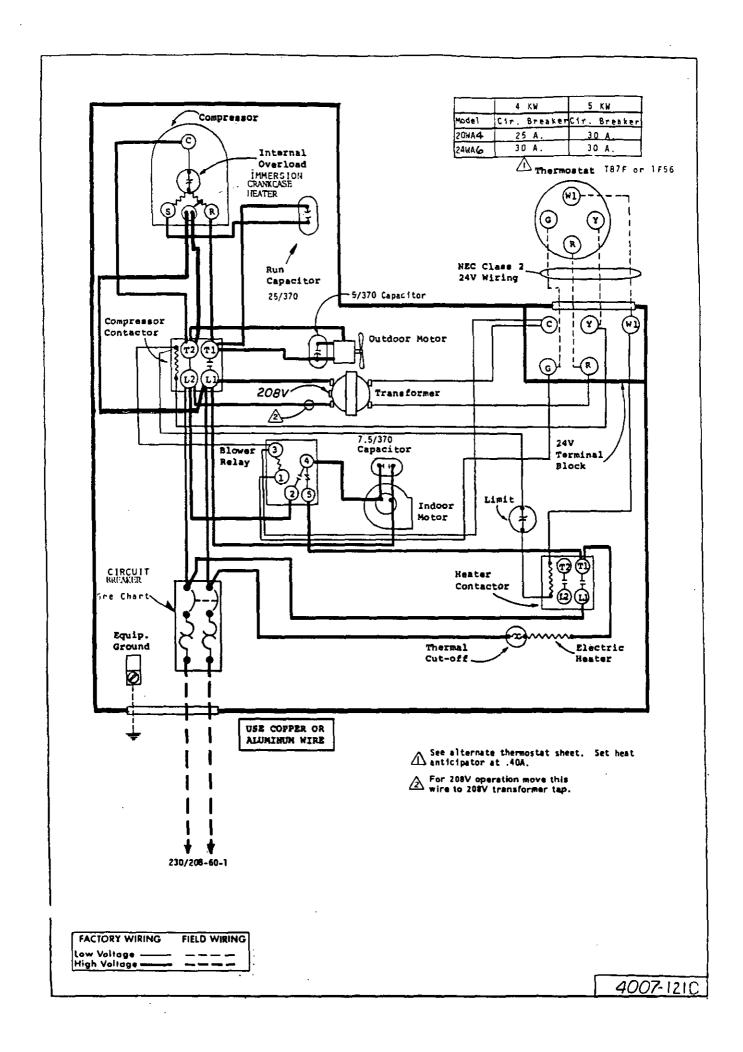
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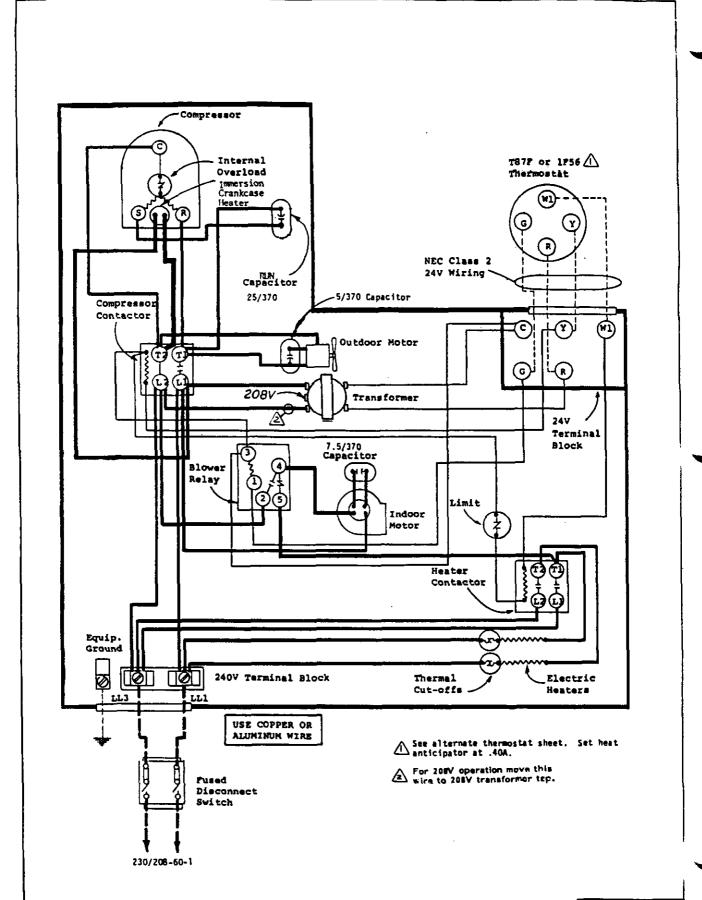


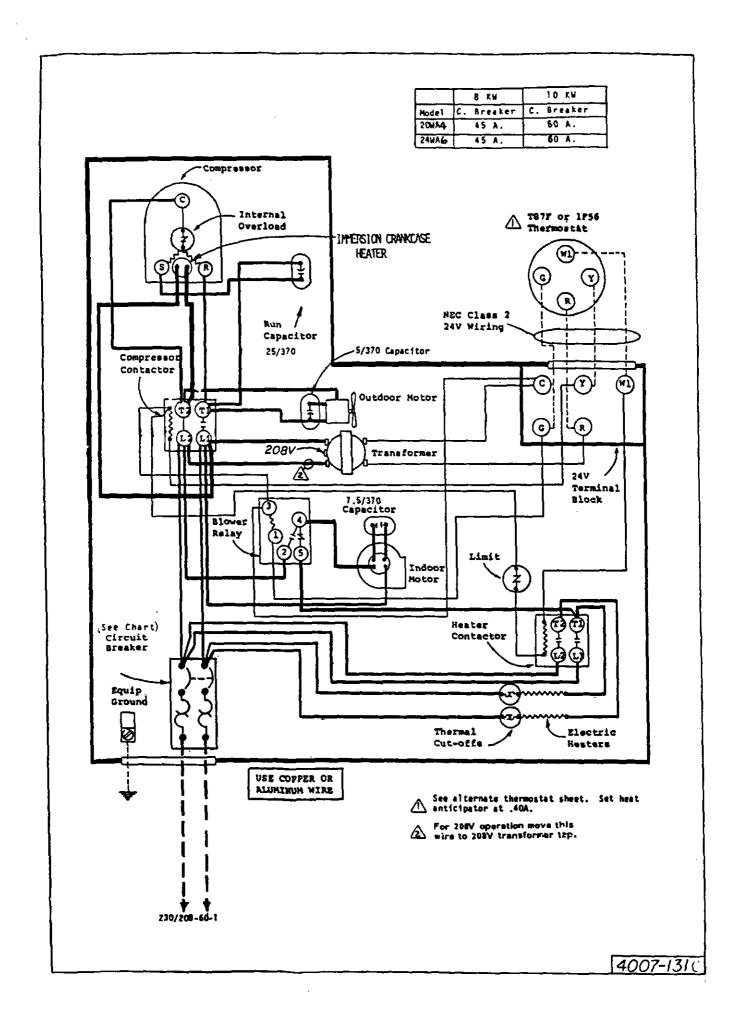
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