

INSTALLATION INSTRUCTIONS

ROOF MOUNTED PACKAGED HEAT PUMPS

MODELS

**RPMH30B
RPMH36B
RPMH36C**

**SPECIALLY DESIGNED FOR ROOFTOP
HEATING/COOLING APPLICATIONS**

MANUAL 2100-028 REV. M
SUPERSEDES REV. L
FILE VOL. II, TAB 11

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BRYAN, OHIO**

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

or

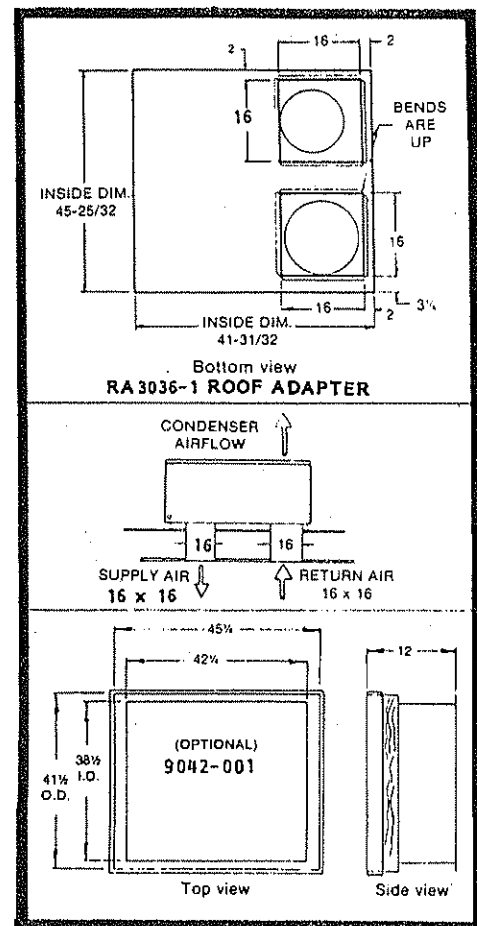
RPMH36C

RA 3036-1

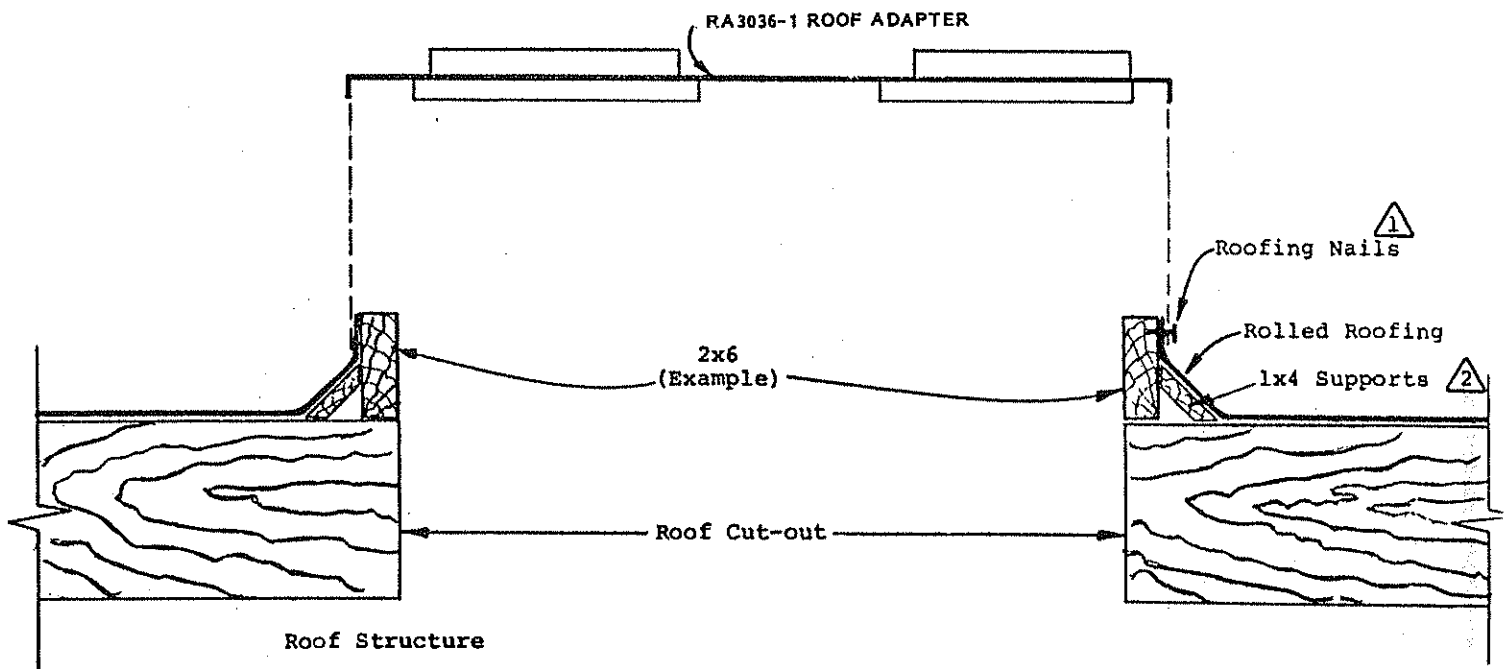
Roof Adapter

9042-001
Roof Curb

9042-001 ROOF CURB
Leakproof, one piece welded
galvanized construction with
roofing nailer strip - suitable
for all flat roofs.



RA3036-1 ROOF ADAPTER



- ① Nail 3/4" from top.
- ② Provides support to roofing material, prevents sharp bends and cracking.

TABLE 1
ELECTRICAL DATA

Model	Rated Volts & PH	Operating Voltage Range	Maximum Unit Amps 230/208	Maximum Fuse Or Ckt. Brk *	Minimum Circuit Ampacity	Field Power Wiring**	Ground Wire Size**
				Ckt. A	Ckt. A	Ckt. A	Ckt. A
RPMH30B	230/208-1	197-253	19.3/20.3	40	25	10	10
RPMH30B-B	230/208-3	187-253	13.8/14.3	30	19	12	10
RPMH30B-C+	460-3	414-506	8.2	15	15	14	14
RPMH36B	230/208-1	197-253	19.7/21.6	40	27	10	10
RPMH36C	230/208-1	197-253	20.0/20.4	40	27	10	10
RPMH36B-B	230/208-3	187-253	14.3/15.3	30	19	12	10
RPMH36B-C+	460-3	414-506	7.7	15	15	14	14

*Maximum time delay fuse or HACR type circuit breaker. HACR type not applicable to 460 volt.

**60 degree C copper wire size, basic unit only.

+460 volt not U.L. listed.

TABLE 2
OPTIONAL FIELD INSTALLED HEATER PACKAGES
ARE ONLY TO BE USED WITH THE AIR CONDITIONING MODELS AS INDICATED BELOW

Heater Package Model No.	Volts and Phase	1	1	1	1	1	1	1
		R P M H 3 O B	R P M H 3 O B	R P M H 3 O B	R P M H 6 B	R P M H 6 B	R P M H 6 B	R P M H 6 C
EH3RA-A05	240/1	S	A	A	S	A	A	S
EH3RA-A10		S	A	A	S	A	A	S
EH3RA-A15		S	A	A	S	A	A	S
EH3RA-A20		S	A	A	S	A	A	S
EH3RA-B09	240/3	A	S	A	A	S	A	A
EH3RA-B15		A	S	A	A	S	A	A
EH3RA-B18		A	S	A	A	S	A	A
EH3RA-C09	480/3	A	A	S	A	A	S	A
EH5RA-C15		A	A	S	A	A	S	A
EH5RA-C18		A	A	S	A	A	S	A

S Standard application--Heater volts and phase same as basic unit.

A Alternate application--Heater volts and phase different from basic unit.

1 Maximum amount of electric heat which operated in with the compressor during heating mode is 10KW on 1 phase and 12KW on 3 phase. The balance of the heat can be operated only during compressor cutoff or emergency heat mode.

TABLE 3
OPTIONAL FIELD-INSTALLED ELECTRIC HEATER TABLE

Heater Pkg. Model No.	Unit Volts Phase	Htr. KW & Cap. @240V (or 480V if applicable)		Heater KW & Capacity @208 Volts		Heater Amp @240V/208 or 480V if Applicable	Heater Internal Fuses	Circuit B				
								No. Field Ckts.	Minimum Circuit Ampacity	Maximum Overcurrent Protection	① Field Power Wiring	② Ground Wire Size
BH3RA-A05	240/208-1	5	17,100	3.75	12,800	20.8/18.1		1	26/23	30/25	10/10	10
BH3RA-A10	240/208-1	10	34,100	7.5	25,600	41.6/36.2		1	53/46	60/50	6/6	10
BH3RA-A15	240/208-1	15	51,200	11.25	38,400	62.5/54.1	30/60	1	79/68	80/70	3/4	8
BH3RA-A20	240/208-1	20	68,200	15.0	51,200	83.2/72.1	60/60	1	104/91	110/100	2/3③	6
BH3RA-B09	240/208-3	9	30,700	6.75	23,000	21.7/18.7		1	28/24	30/25	10/10	10
BH3RA-B15	240/208-3	15	51,200	11.25	38,400	36.2/31.2		1	46/39	50/40	6/8	10
BH3RA-B18	240/208-3	18	61,400	13.5	46,100	43.3/37.5		1	55/47	60/50	6/6	10
BH3RA-C09	480-3	9	30,700	6.75	23,000	10.8		1	15	15	14	14
BH3RA-C15	480-3	15	51,200	11.25	38,400	18.0		1	23	25	10	10
BH3RA-C18	480-3	18	61,400	13.5	46,100	21.7		1	28	30	10	10

① Based on wire suitable for 60 degrees C. Other wiring materials must be rated for marked "Minimum Circuit Ampacity" or greater.

② Based upon Table 250-95 of N.E.C. 1984. See electrical data for basic air conditioning for Ckt. A wiring specification requirements.

③ For ampacities over 100 amperes use wire suitable for at least 75 degrees C.

TABLE 4

INDOOR BLOWER PERFORMANCE CFM--DRY COIL WITH FILTER			
E.S.P. In H2O ***	RPMH30B, RPMH36B and RPMH36C		
	High Speed	Medium Speed	Low Speed
.00	1425	1225	1130
.10	1385	1190	1115
.20	1330	1150	1085
.30	1275	1100	1050
.40	1205	1050	1005
.50	1130	995	950
.60	1060	935	890

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.

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. ACCA 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.

UNPACKING THE SELF-CONTAINED UNIT

It is recommended that the unit be unpacked at the installation site to minimize damage due to handling.

1. Cut and remove the metal band from around the unit.
2. Remove the carton from the unit.
3. The installation manual is contained in an envelope shipped with the unit. Make sure that it does not get lost.
4. Carefully block up the unit and remove the shipping skid.
5. CAUTION--DO NOT tip the unit on its side. Oil may enter the compressor cylinders and cause starting or operating trouble. If unit has set on its side, restore to upright position and do not run for several hours. Also run intermittently for a few seconds. Do this three or four times with three minutes in between. Observe abnormal compressor noise.

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. 90B. Where local regulations are at a variance with instructions, installer should adhere to local codes.

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.

An optional accessory outdoor coil drain pan, DP3036, is available to collect normal condensate run-off and defrost cycle condensate 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 protection.

DUCT WORK

Design the duct work 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 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.

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 RA3036-1 roof adapter (see layout and dimensions). NOTE: The RA3036-1 roof adapter MUST BE USED to assure a leak-free installation and the UL approval is contingent upon the use of this mating adapter.

ROOF CURB FABRICATION

The roof curb (extension section between actual roof and RA3036-1 roof adapter) could be fabricated from either sheet steel or nominal dimensional lumber. In either case, the OD dimension of the extension section must be sized to fit the RA3036-1 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 the heating cycle.

A suggested design for a wood frame type construction is shown on page 1.

OPTIONAL ELECTRIC HEATER PACKAGES

The EH3RA series electric heater packages are available as options. Each package comes complete with heaters and controls.

IMPORTANT: A separate power entrance is required for the heater package. DO NOT attempt to wire a basic unit and a heater package to one power circuit.

INSTALLATION

Installation of the heat package requires removing the unit blower from its securing slide mount, inserting the heat package into the same mount and reinstalling the unit blower into a similar mount on the heat package. A minimal amount of wiring is required. Refer to the heat package installation instructions for detailed installation information.

WIRING--MAIN POWER

Refer to the unit rating plate for wire sizing information and maximum fuse or "HACR Type" circuit breaker size. Each unit is marked with a "Minimum Circuit Ampacity." This means that the field wiring used must be sized to carry that amount of current. Refer to the National Electrical Code for complete current carrying capacity data on the various insulation grades of wiring material.

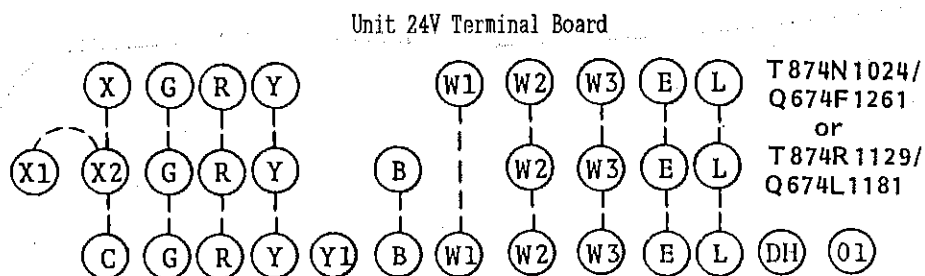
If an optional heater package is installed, a separate power circuit must be added. Refer to the Electrical Information Chart for circuit information. DO NOT ATTEMPT TO COMBINE A BASIC UNIT AND A HEATER PACKAGE TO ONE POWER SUPPLY CIRCUIT.

The unit rating plate lists a "Maximum Time Delay Relay 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.

WIRING--24V CONTROL CIRCUIT

Ten (10) wires should be run from thermostat subbase to the 24V terminal board in the unit. An 18 gauge copper, color-coded thermostat cable is recommended. The connection points are shown on most of the wiring diagrams and are also shown below.

FIGURE 2



IMPORTANT NOTE: Only the thermostat and subbase combinations as shown above will work with this equipment. The thermostat and subbase MUST be matched, and correct operation can be assured only by proper selection and application of these parts.

COMPRESSOR MALFUNCTION RELAY (1-Phase Models Only)

Actuation of the green "check" lamp is accomplished by a voltage type relay which is factory installed. Any condition such as loss of charge, defective capacitor, defective contactor, etc., that will prevent compressor from operating will cause green lamp to activate. This is a signal to the operator of the equipment to place system in emergency heat position.

PRESSURE SERVICE PORTS

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

THERMOSTAT INDICATOR LAMPS

The red lamp marked "EM HT" comes on and stays on whenever the system switch is placed in the EM HT position. The green lamp marked "check" will come on if there is any problem that prevents the compressor from running when it is supposed to be.

EMERGENCY HEAT POSITION

The operator of the equipment must manually place the system switch in this position. This is done when there is a known problem with the outdoor section, or when the green "check" lamp comes on indicating a problem.

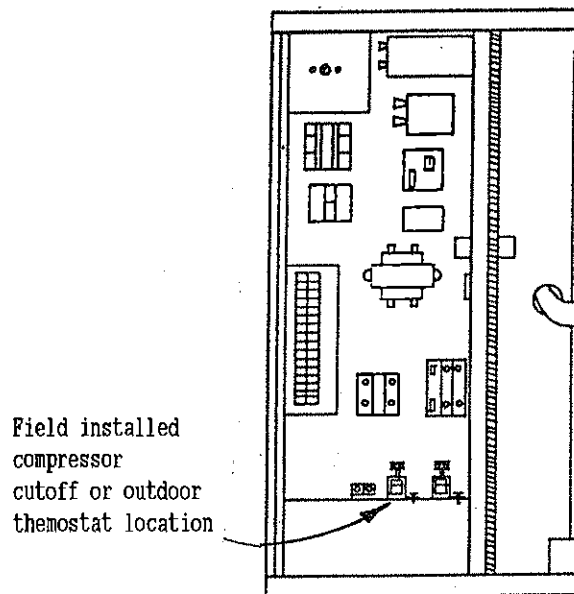
COMPRESSOR CUT-OFF THERMOSTAT AND OUTDOOR THERMOSTAT

Heat pump compressor operation at outdoor temperatures below 0 degree F are neither desirable nor advantageous in terms of efficiency. Since most equipment at time of manufacture is not designated for any specific destination of the country, and most of the equipment is installed in areas not approaching the lower outdoor temperature range, the compressor cut-offs are not factory installed.

NOTE: Maximum amount of electric heat which can be operated in conjunction with the compressor during heating mode is 10KW on 1 phase and 12KW on 3 phase. The balance of the electric heat can be operated only during compressor cut off or emergency heat mode.

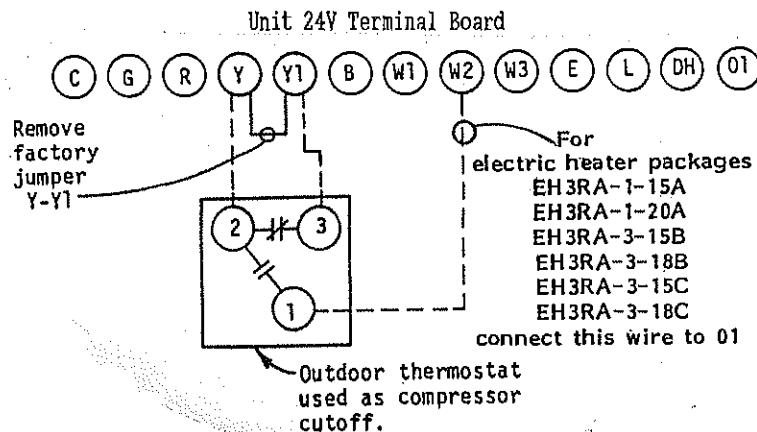
NOTE: If this unit is operated in cooling below a 65 degree outdoor ambient temperature, the installation of low ambient controls (LAC-1 and 8201-008 relay) to unit is required.

FIGURE 3



COMPRESSOR CUT-OFF AND OUTDOOR THERMOSTAT WIRING

FIGURE 4



HEAT ANTICIPATION

Both of the thermostats shown below have a fixed heat anticipator for stage 1 with no adjustment required. Stage 2 has an adjustable anticipator for the W2 connection and fixed for the W3 connection. Both the W2 and W3 circuits are controlled by the stage 2 bulb. The only heat anticipator that needs to be checked is stage 2 and it should be set to match the load carried by the W2 circuit. If special field wiring is done, it is best to actually measure the load but a good rule is .40A for EACH heat contactor controlled by W2.

TABLE 5

WALL THERMOSTAT AND SUBBASE COMBINATIONS			
Group	Thermostat	Subbase	Predominant Feature
A	8403-017 (T874R1129)	8404-009 (Q674L1181)	Heat or Cool ① No Auto
B	8403-018 (T874N1024)	8404-010 (Q674F1261)	Automatic Heat-Cool ② Changeover Position

- ① No automatic changeover position--must manually place in heat or cool. Reversing valve remain energized at all times system switch is in heat position (except during defrost cycle). No pressure equalization noise when thermostat is satisfied on either heating or cooling.
- ② Allows thermostat to control both heating or cooling operation when set in "AUTO" position. Reversing valve de-energizes at end of each "ON" heating cycle.

IMPORTANT NOTE: Both thermostat and subbase combinations shown above incorporate the following features: Man-Auto fan switch, Off-Heat-Cool-Em. Heat Switch, and two (2) indicator lamps--one for emergency heat and one for compressor malfunction.

SEQUENCE OF OPERATION

COOLING--Circuit R-Y makes at thermostat pulling in compressor contactor starting the compressor and outdoor motor. The G (indoor motor) circuit is automatically completed on any call for cooling operation, or can be energized by manual fan switch on subbase for constant air circulation.

HEATING--A 24V solenoid coil on reversing valve controls heating cycle operation. Two thermostat options, one allowing "Auto" changeover from cycle to cycle and the other constantly energizing solenoid coil during heating season and thus eliminating pressure equalization noise except during defrost, are to be used. On "Auto" option, a circuit is completed from R-W1 and R-Y on each heating "on" cycle, energizing reversing valve solenoid and pulling in compressor contactor starting compressor and outdoor motor. R-G also make starting indoor blower motor. Heat pump heating cycle now in operation. The second option has no "Auto" changeover position, but instead energizes the reversing valve solenoid constantly whenever the system switch on subbase is placed in "Heat" position, the "B" terminal being constantly energized from R. A thermostat demand for heat completes R-Y circuit, pulling in compressor contactor starting compressor and outdoor motor. R-G also make starting indoor blower motor.

CRANKCASE HEATERS

All single and three phase models except RPMH36C (see note ①) have an insertion well-type crankcase 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.

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.

The decal in Figure 5 is affixed to all outdoor units detailing start-up procedure. This is very important. Please read carefully.

NOTE ① Model RPMH36C employs a scroll compressor. Due to the scroll compressor's inherent ability to handle liquid refrigerant in flooded conditions, no crankcase heater is required.

FIGURE 5

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 PRESENCE OF LIQUID REFRIGERANT IN THE COMPRESSOR CRANKCASE

1. MAKE CERTAIN THE ROOM THERMOSTAT 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 60 MINUTES PER POUND OF REFRIGERANT IN THE SYSTEM AS NOTED ON THE UNIT RATING PLATE, WHICHEVER IS GREATER.
4. AFTER PROPERLY ELAPSED TIME THE THERMOSTAT MAY BE SET TO OPERATE THE COMPRESSOR.
5. EXCEPT AS REQUIRED FOR SAFETY WHILE SERVICING — DO NOT OPEN SYSTEM DISCONNECT SWITCH.

7961-061

AIR FILTER

A 24" x 24" x 1" disposable fiberglass type filter is located inside the unit 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.

DEFROST CYCLE

The defrost cycle is controlled by time and temperature. The 24 volt timer motor runs all the time the compressor is in operation. When the outdoor temperature is in the lower 40 degree F temperature range or colder, the outdoor coil temperature is 32 degrees F or below. This temperature is sensed by the defrost thermostat mounted near the bottom of the outdoor coil on a return bend. The defrost thermostat closes at approximately 32 degrees F. Every 60 (or 30) minutes that the compressor is running, contacts 3 - 5 close for 7 minutes, with contacts 3 - 4 closed for the first 40 seconds of that 7 minutes. If the defrost thermostat is closed, the defrost relay energizes and places the system in defrost mode. An interlocking circuit is created with timer contact 3 - 5 and defrost relay contact 7 - 9 in series.

During the defrost mode, the refrigerant cycle switches back to the cooling cycle, the outdoor motor stops, electric heaters are energized, and hot gas passing through the outdoor coil melts any accumulated frost. When the temperature rises to approximately 57 degrees F, the defrost thermostat opens, de-energizing the defrost relay and returning the system to heating operation.

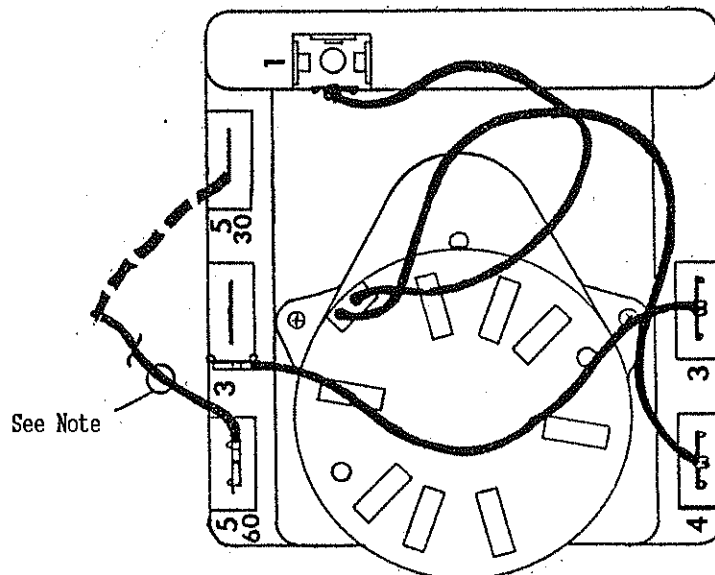
If some abnormal or temporary condition such as a high wind causes the heat pump to have a prolonged defrost cycle, contacts 3 - 5 of the defrost timer will open after 7 minutes and restore the system to heating operations automatically.

There are two time settings on the defrost timer--30 minutes and 60 minutes. Most models are shipped wired on the 60 minute setting for greatest operating economy. If special circumstances require a change to the shorter time, remove wire connected to terminal 5/60 and reconnect to terminal 5/30.

There is a manual advance knob located on the timer. This can be used to advance timer to contact point if it is desired to check out defrost cycle operation, without waiting for time to elapse.

FIGURE 6

Defrost Timer Wiring



NOTE: All models are connected to 5/60 terminal (60 minute). Any models can be changed from 60 minutes to 30 minutes by unplugging from 5/60 terminal and reconnecting to 5/30 terminal as shown by dotted line.

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 6

Model	Rated Airflow	95 F OD Temperature	82 F OD Temperature
RPMH30B	1100	59 - 61	69 - 71
RPMH36B	1275	64 - 66	75 - 77
RPMH36C	1200	56 - 58	59 - 61

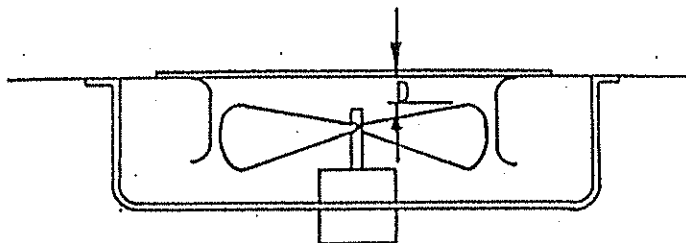
The above suction line temperatures are based upon 80 degrees F dry bulb/67 degrees F wet bulb (50% R.H.) temperature and rated airflow across the evaporator during cooling cycle.

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 7



Model	Dimension D
RPMH30B	2.00"
RPMH36B	2.00"
RPMH36C	2.00"

SERVICE HINTS

1. Caution homeowner to maintain clean air filters at all times. Also not to needlessly close off supply and return air registers. This reduces air flow through the system, which shortens equipment service life as well as increasing operating costs.
2. Switching to heating cycle at 75 degrees F or higher outside temperature may cause a nuisance trip of the manual reset high pressure switch.
3. The heat pump wall thermostats perform multiple functions. Be sure that all function switches are correctly set for the desired operating mode before trying to diagnose any reported service problems.
4. Check all power fuses or circuit breakers to be sure that they are the correct rating.
5. Periodic cleaning of the outdoor coil to permit full and unrestricted airflow circulation is essential.

TABLE 7

COOLING

Air Temperature Entering Outdoor Coil Degree F

Model	Return Air Temperature	Pressure	75	80	85	90	95	100	105	110	115
RPMH30B	75 deg. DB	Low Side	64	67	69	72	74	76	78	80	82
	62 deg. WB	High Side	214	230	246	262	278	294	310	326	342
	80 deg. DB	Low Side	70	72	74	77	79	81	84	86	88
	67 deg. WB	High Side	220	236	252	269	285	301	318	334	350
	85 deg. DB	Low Side	74	77	80	82	85	87	90	92	94
	72 deg. WB	High Side	227	244	261	278	295	312	329	346	363
RPMH36B	75 deg. DB	Low Side	66	69	72	74	76	78	80	81	82
	62 deg. WB	High Side	219	236	253	271	288	305	323	340	357
	80 deg. DB	Low Side	71	74	76	79	81	83	85	87	89
	67 deg. WB	High Side	224	242	260	277	295	313	331	349	367
	85 deg. DB	Low Side	78	80	82	85	87	89	92	94	96
	72 deg. WB	High Side	231	250	268	287	305	324	342	361	379
RPMH36C	75 deg. DB	Low Side	71	73	74	75	76	77	78	79	80
	62 deg. WB	High Side	213	229	245	261	278	294	310	326	342
	80 deg. DB	Low Side	76	77	79	80	81	82	83	83	84
	67 deg. WB	High Side	218	235	251	268	285	301	318	335	351
	85 deg. DB	Low Side	76	77	79	80	82	84	86	88	90
	72 deg. WB	High Side	225	243	260	277	295	312	329	346	363

TABLE 8

HEATING

Air Temperature Entering Outdoor Coil Degree F

Model	Return Air Temperature	Pressure	0	5	10	15	17	20	25	30	35	40	45	47	50	55	60
RPMH30B	70 degree	Low Side	15	19	23	27	29	31	35	39	43	47	50	52	54	58	61
		High Side	135	145	156	167	171	177	188	198	208	219	229	233	239	249	259
RPMH36B	70 degree	Low Side	14	18	22	26	28	30	34	38	42	46	50	52	54	58	62
		High Side	130	140	150	160	164	170	180	190	200	210	221	225	231	241	252
RPMH36C	70 degree	Low Side	19	23	27	31	27	34	38	41	41	47	50	52	52	54	56
		High Side	158	165	173	181	173	188	196	204	204	220	228	236	236	244	252

Low side pressure \pm 2 PSIGHigh side pressure \pm 5 PSIG

Tables are based upon rated CFM (airflow) across the evaporator coil and should 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 recharged to serial plate instructions.

