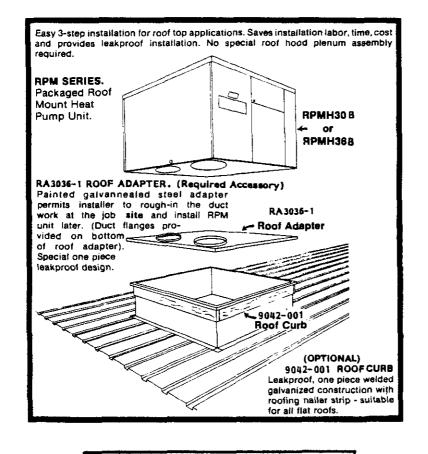
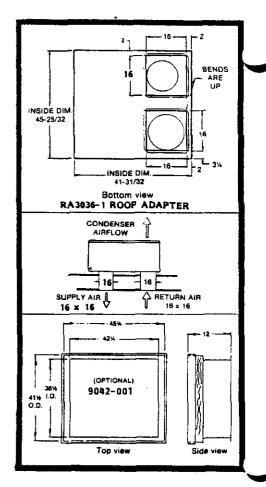
MODELS RPMH30B & RPMH36B ROOF MOUNT PACKAGED HEAT PUMP

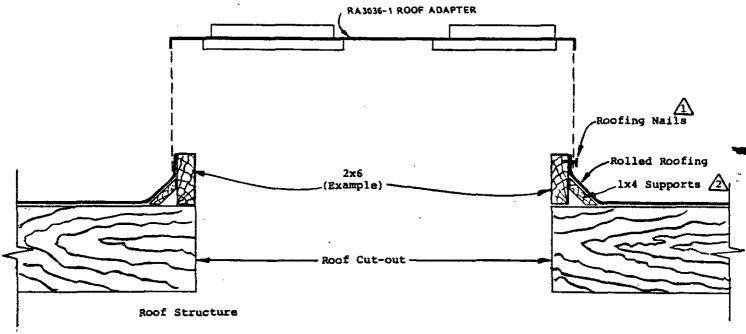
INSTALLATION INSTRUCTIONS

SPECIALLY DESIGNED FOR ROOFTOP HEATING / COOLING APPLICATIONS





TYPICAL CONSTRUCTION FOR DIMENSIONAL LUMBER EXTENSION CONSTRUCTION



⚠ Nail 3/4" from top.

Provides support to roofing material, prevents sharp bends and cracking.

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. Air Conditioning Contractors of America (ACCA) is an excellent guide to proper sizing. All ductwork 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, praferably 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.

- Cut and remove the metal band from around unit.
- 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.
- Carefully block up the unit and remove the shipping skid.
 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 pacakged 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 the 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.

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 $3/4^{\rm H}$ FPT coupling for drain line connection.

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 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

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 heating cycle.

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

OPTIONAL ELECTRIC HEATER PACKAGES

The EH3RA-Series electric heeter packages are available as options. Each peckage comes complete with heaters and controls.

IMPORTANT: A separate power entrance is required for the heater package. OO 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 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.

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

INDOOR BLOWER PERFORMANCE CFM - Dry Coil With Filter								
_	RPMH30B and RPMH36B							
E.S.P. In H ₂ 0	High Speed	Medium Speed	Low Speed					
. 0	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					

BASIC UNIT ELECTRICAL DATA									
Model	Rated Volts & Ph	Operating Voltage Range	Max. Unit Amps 230/208	Maximum Fuse or Circuit Breaker* Ckt.A	Minimum Circuit Ampacity Ckt.A	Field** Power Wiring Ckt.A	Ground** Wire Size Ckt.A		
RPMH 30B - B RPMH 30B - C +	230/208-1 230/208-3 460-3	197-253 187-253 414-506	19.3/20.3 13.8/14.3 8.2	40 30 15	25 19 15	10 12 14	10 10 14		
RPMH 36B RPMH 36B - B RPMH 36B - C+	230/208-1 230/208-3 460-3	197~253 187~253 414~506	19.7/21.6 14.3/15.3 7.7	40 30 15	27 19 15	10 12 14	10 10 14		

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

OPTIONAL FIELD-INSTALLED ELECTRIC HEATER TABLE

	Heater	Htr. Kw & Capacity		Heater Kw &		Heater Amps		CIRCUIT B					
Heater Package Model No.	Package Volts		or 480V if icable) Btuh	© 208		@ 240/208 {or 480V if	Heater	Number Field	Minimum Circuit	Max.Over- Current	Power	Ground Wire Size	
Model No.	Phase	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Btun	N.W	Stuh	applicable)	Fuses	Ckts.	Ampacity	Protection	Wiring	Size	
EH 3RA-A 05	240/208-1	5	17,100	3.75	12,800	20.8/18.1		1	26/23	30/25	10/10	10	
EH 3RA-A10	240/208-1	10	34,100	7.5	25,600	41.6/36.2	Į.	1 1	53/46	60/50	6/6	10	
EH3RA-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	
EH 3R A - A 20	240/208-1	20	68,200	15.0	51,200	83.2/72/1	60/60	1	104/91	110/100	2/3③	6	
EH3RA-B09	240/208-3	9	30,700	6.75	23.000	21.7/18.7		1	28/24	30/25	10/10	10	
EH 3RA-815	240/208~3	15	51,200	11.25	38,400	36.2/31.2	İ	1 1	46/39	50/40	6/8	10	
EH3RA-B18	240/208-3	18	61,400	13.5	46,100	43.3/37.5		1	55/47	60/50	6/6	10	
EH3RA-C09	480-3	9	30,700	6,75	23,000	10.8		1	15	15	14	14	
EH3RA-C15	480-3	15	51,200	11.25	38,400	18.0	1	1	23	25	10	10	
EH3RA-C18	480-3	18	61,400	13.5	46,100	21.7	{	1	28	30	10	10	

① Based on wire suitable for 60°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. ③ For ampacities over 100 amperes use wire suitable for at least 75°C.

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

Heater Model Number	Volts & Phase	RPMH 30B	① RPMH 368 - В	Ф	① RPMH36B	① RPMH36B-B	① R РМН 30В- С	0
EH 3RA- A 05 EH 3RA- A 10 EH 3RA- A 15 EH 3RA- A 20	240/208-1 240/208-1 240/208-1 240/208-1	\$ \$ \$ \$	A A A A	A A A	\$ 5 5 5	A A A	A A A	Max. amount of electric heat which operated in with the compressor
EH3RA- B09 EH3RA- B15 EH3RA- B18	240/208-3 240/208-3 240/208-3	A A A	5 S S	A A A	A A A	S S S	A A A	during heating mode is 10Kw on 1 phase and 12Kw on 3 phase. The balance of the
EH3RA- C09 EH3RA- C15 EH3RA- C18	480~3 480~3 480~3	A A A	A A A	\$ \$ \$	A A A	Â	S S S	heat can be operated only during comp- ressor cutoff or emergency heat mode.

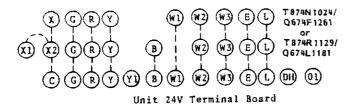
^{**60°}C copper wire size, basic unit only. +460V not UL listed.

See electrical data for basic air conditioning for Circuit A wiring specification requirements.

 $[\]rm S$ - Standard application - heater volts and phase same as basic unit. A - Alternate application - heater volts and phase different from basic unit.

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.



IMPORTANT NOTE: Only the thermostat and subbase combinations as shown above will work with this equipment. The stat 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 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.

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

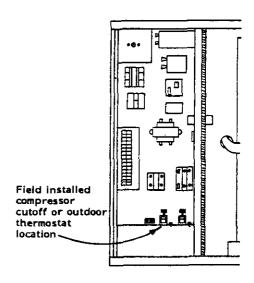
The operator of the equipment must manually place the system switch in this position. This is done when there is a known problem with the outdoor section, or when the green "check" lamp comes on indicating a problem.

COMPRESSOR CUT-OFF THERMOSTAT AND OUTDOOR THERMOSTAT

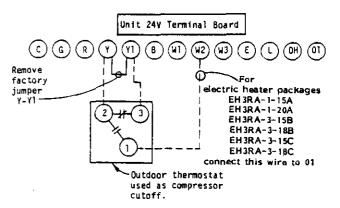
Heat pump compressor operation at outdoor temperatures below 0°F are neither desirable nor advantageous in terms of efficiency. Since most equipment at time of manufacture is not designated for any specific destination of the country, and most of the equipment is installed in areas not approaching the 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° outdoor ambient temperature, the installation of low ambient controls (LAC-1 and 8201-008 reley) to unit is required.



COMPRESSOR CUT-OFF & OUTDOOR THERMOSTAT WIRING



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.

WALL THERMOSTAT AND SUBBASE COMBINATIONS

Group	Thermostat	Subbase	Predominant Feature
A	8403-017 (T 874R 1129)	8404-009 (Q674L1181)	Heat or Cool 1
В	8403-018 (T 874N 1024	8404-010 (Q674F1261)	Automatic Heat-Cool Changeover Position

No automatic changeover position--must manually place in heat or cool. Reversing valve remains 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.

Allows thermostat to control both heating and 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" changeous 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

Ail single and three phase models 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 following decal is affixed to all outdoor units detailing start-up procedure. This is very important. Please read carefully.

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

- MAKE CERTAIN THE ROOM THERMO-STAT IS IN THE OFF POSITION (THE COMPRESSOR IS NOT TO OPERATE).
- 2. APPLY POWER BY CLOSING THE SYS TEM DISCONNECT SWITCH THIS ENER GIZES THE COMPRESSOR HEATER WHICH EVAPORATES THE LOQUID RE FRIGERANT IN THE CRANKCASE.
- 3. ALLOW 4 HOURS OR 60 MIRUTES 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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AIR FILTER

A 24"x24"x1" disposable fibergiass 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.

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°F temperature range or colder, the outdoor coil temperature is 32°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°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

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°F, the defrost thermostat opens, de-energizing the defrost relay and returning the system to heating operation.

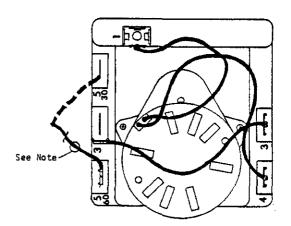
If some abnormal or temporary condition such as a high wind causes the heat pump to have a prolonged defrost cycle, contacts 3-5 of the defrost timer will open after 7 minutes and restore the system to heating operations automatically.

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 closure point if it is desired to check out defrost cycle operation, without waiting for time to elapse.

DEFROST TIMER WIRING

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NOTE: All models are connected to 5/60 terminal (60 minute).

Any model 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:

Modei	Rated Airflow	95°F O.D. Temp.	82°F O.D. Temp.
RPMH 30B	1100	59 - 61	69 - 71
RPMH 36B	1275	64 - 66	75 - 77

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

SERVICE HINTS

- 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.
- Switching to heating cycle at 75°F or higher outside temperature may cause a nuisance trip of the manual reset high pressure switch.
- 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.
- Check all power fuses or circuit breakers to be sure that they are the correct rating.
- Periodic cleaning of the autdoor coil to permit full and unrestricted airflow circulation is essential.

						2	/87
		30B	130B -B	136B	R PMH 3668B	130B-C	RPMH36B-C
PART NO.	DESCRIPTION	R PMH 30B	R PMH 30B	R PMH 36B	RPMI	RPMH30B	RPM
5202-003	Accumulator	×	×			×	
5202-004	Accumulator			×	x .		× .
*	Blower Housing 10-8	×	×	×	×	×	х
5152-010	Blower Wheel DD10-7A	×	×	×	X	×	×
8552-035 8552-019	Capacitor 40/370V Capacitor 5/440V	×		X			
		×	×	×	×	×	×
8552-002 5811-0 3 3	Capacitor 5/370V Capillary Tube - Cool	X (2)	(2)	(2)	(2)	(2)	(2)
5811-016	Capillary Tube - Cool Capillary Tube - Heat	(2)	(2)	(2)	(2)	(2) ×	(2)
5811-021	Capillary Tube - Heat	X	×	x			×
8000-052	Compressor - CRG3-0250-PFV-270	×		^	^	[^
8000-053	Compressor - CRG3-0250-TF5-270		×			1	
8000-054	Compressor - CRG3-0250-TFD-270					×	
8000-055	Compressor - CRH3-0275-PFV-270]		x			
8000-056	Compressor - CRH3-0275-TF5-270				×		
8000-057	Compressor - CRH3-0275-TFD-270						×
5051-003	Condenser Coil	×	×	X	X	×	×
8401-007 8401-002	Contactor 1P25A Contactor 3P35A	×		×			ļ <u></u>
8401-002	Contactor 3P35A		×		×	×	×
8408-016	Defrost Thermostat	×	×	х	×	×	×
5060-022	Evaporator Coil	×	×	×	×	×	×.
5151-031	Fan Blade	×	×	×	×	×	×
7051-014	Fan Guard	х	×	×	×	x	×
8406-011	High Pressure Switch	х	X	×	×	×	×
8607-015	Phenolic Insulator					×	X
8105-010 8103-013	Motor - Blower 1/3 hp Motor - Fan 1/5 hp	X	X	X	×	X	×
7004-015	Filter	×	×	×	×	x	x
5651-036	Check Valve	x	×	×	x	×	×
8200-003	Motor Mount - Blower	×	×	X	×	X	×
8200-022	Motor Mount - Fan	×	×	×	x	×	x
5451-011	Motor Mounting Parts	×	×	×	×	×	×
5451-009	Motor Mounting Parts - Fan	×	×	×	×	×	×
5153-022	Rain Shield	×	×	×	X	×	×
8201-008	Relay - Blower	×	×	×	X	×	×
8201-013	Relay - Emergency Heat	×	×	×	×		
8201-047 8201-031	Relay - Defrost Relay - Compressor Fault	×	×	X X	×	×	X
5650-005	Reversing Valve	×	×	 ^- -		 x -	1
5650-014	Reversing Valve	~	~	×	×	"	×
5650-012	Solenoid Coil	×	×	×	×	×	×
5210-004	Strainer	×	×	×	×	×	×
5210-002	Strainer	×	×	×	×	×	×
8607-010	Terminal Board	×	×	×	×	×	<u> </u>
8607-013	Terminal Block	×	i	×		1	1
8607-014	Terminal Block		X		X	×	×
8612-012 8407-035	Timer w/7 Min. Time Safe Transformer	X	×	X	X	×	X
8407-035	Transformer - Stepdown 1.5 KVA	1 ^	1 ^] ^	Î) x	l â
8607-017	Terminal Block	ļ	<u> </u>			×	×

^{*}Please order by model number.

Minimum net billing \$15.00. Supersedes all previous lists. Subject to change without notice.

Cooling curves are based upon 80DB, 67WB Temp. and rated

