SINGLE PACKAGE HEAT PUMP INSTALLATION INSTRUCTIONS

MODELS

2 TON

2.5 TON

3 TON

3.5 TON

4 TON

5 TON

FOR RESIDENTIAL AND COMMERCIAL HEATING / COOLING APPLICATIONS

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Modei	Rated Volts & PH	Operating Voltage Range	Max. Unit Amps	Req'd Maximum External Fuses or Ckt. Breaker* Ckt. A	Minimum Circuit Ampacity Ckt. A	Field Power Wiring** Ckt, A	Ground Wire Size** Ckt. A
2 Ton	230/208-1	197-253	14.8	30	20	12	10
5 Ton	230/208-1	197-253	18.4	35	24	10	10
Ton	230/208-1	197-253	24.4	45	30	· 10	10
3.5 Ton	230/208-1	197-253	28.0	50	35	8	10
3.5 Ton	230/208-3	187-253	21.0	35	26	10	10
4 Ton	230/208-1	197-253	30	40	36	8	10
4 Ton	230/208-3	187-253	22	60	26	10	10
5 Ton	230/208-1	197-253	37.5	60	45	6	· 10
5 Ton	230/208-3	187-253	26.5	50	31	B	

^{*}Maximum time delay fuse or HACR type circuit breaker.

OPTIONAL FIELD-INSTALLED ELECTRIC HEATER TABLE

Heater Package	Unit Volts	@ 240V	w & Capacity (or 480V if icable)	Cap	r Kw & acity Volts	@ 240V or 480V as applicable	Heater	Number Field		cuit B Max.Over- Current(1)		Ground
Model No.	Phase	Kw	Btuh	Kw	B tur.	Hitr. Amps		Ckts.		Protection	Wiring	Wire Size
EH3PA-A05 EH3PA-A08 EH3PA-A10 EH3PA-A15	240/208-1 240/208-1 240/208-1 240/208-1	5 8 10 15	17,100 27,300 34,100 51,200	3.75 6 7.5 11.25	12,800 20,500 26,000 38,400	20.8 33.3 41.7 62.5	30/60	1 1 1 1	26 42 53 79	30 45 60 80	10 6 6 3	10 10 10 8
EH5PA-A05 EH5PA-A10 EH5PA-A15 EH5PA-A20 EH5PA-B09 EH5PA-B15 EH5PA-B18	240/208-1 240/208-1 240/208-1 240/208-3 240/208-3 240/208-3 240/208-3	5 10 15 20 9 15	17,100 34,100 51,200 68,200 30,700 51,200 61,400	3.75 7.5 11.25 15 6.75 11.25 13.5	51,200 23,000	20.8 41.7 62.5 83.2 21.7 36.2 43.4	30/60 60/60	1 1 1 1 1 1	26 53 79 104 28 46 55	30 60 80 110 30 50	10 6 3 2 4 10 6	10 10 8 6 10 10

¹ Time Delay fuses or "HACR Type" circuit breakers must be used for 60 and smaller sizes. Standard fuses or circuit breakers are suitable for sizes 70 and larger.

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

3) Based upon Table 250-95 of N.E.C. 1984. See electrical data for basic heat pump for Ckt. A wiring specifical See electrical data for basic heat pump for Ckt. A wiring specification

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

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

Heater Package Model No.		2 Tan	2.5 Ton	3 Ton	3.5 Ton	230V 3.5 Ton 3-Ph	4 Ton	230V 4 Ton 3-Ph		5 Ton	230V 5 Ton 3-Ph	
EH3PA-A 05 EH3PA-A 08 EH3PA-A 1 0 EH3PA-A 1 5	240/1	1	1 1 1	1 1 1 1								
EH5PA-A05 EH5PA-A10 EH5PA-A15 EH5PA-A20	240/1				1 1 1	* *	1 1 1	*	·	1 1 1	*	
EHSPA-B09 EHSPA-B15 EHSPA-B18	240/3				‡	1 1	*	1		* *] [

^{**60°}C copper wire size, basic unit only.

⁽a) For ampacities over 100 amperes use wire suitable for at least 75°C.

Standard application - Heater volts and phase same as basic unit. Alternate application - Heater volts and phase different from basic unit.

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.

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.

LOCATION

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

Slab Mounting - In areas where winter temperatures DO NOT go below 32°F for periods over twelve hours, the unit may be slab mounted at grade level. When installing unit at grade level, install on a concrete slab at least four inches above finished grade level. Slab should have a slope tolerance away from the building structure of at least 1/4 inch per foot, while being level from side to side. This will prevent ice buildup under the unit during defrost cycles. Place slab in a location where run-off water from higher ground will not collect around unit. See Figure 1.

A minimum of 18 inches should be provided between the coil inlet and any building surfaces. Provide at least four feet between coil outlet and any building wall, fences or other vertical structures. Provide a minimum of three feet clearance on the service access side of the unit. See Figure 2.

Roof Mounting - When a unit is installed in areas where low ambient temperatures or strong winter winds exist, it should be placed so prevailing winter winds are not in direct line with the heat pump coil. If this is not possible, a wind barrier should be constructed. Place barrier 24 inches from the coil inlet side of the unit and in the direction of prevailing winds. Size barrier at least the same height and width as the unit. This may also be necessary on ground level installations. See Figure 3.

Winter Installation Below 32°F - In areas where winter conditions go below 32°F for extended periods, the unit must be elevated above the mounting surface to prevent snowfall or defrost ice accumulation from interfering with the operation of the unit. A minimum of twelve inch elevation is recommended, while greater elevation may be required for areas of high snow accumulation. Poured concrete, steel framework, brick, cement block, etc., can be utilized to construct a suitable raised mounting platform. See Figure 4.

TYPICAL INSTALLATION

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

RATED CF		RATED CFM AND EXTERNAL STATIC PRESSURE (ESP) WET COIL (COOLING)									
Model	Rated CFM	Rated ESP	Recommended Air Flow Range								
2 Ton	800	. 35	720 - 880 CFM								
2.5 Ton	1125	. 50	1000 - 1340 CFM								
3 Ton	1275	.23	1150 - 1400 CFM								
3.5 Ton	1500	.30	1520 ~ 1765 CFM								
4 Ton 5 Ton	1700	.20	1520 - 1765 CFM								

If this unit is operated in cooling below a 65° outdoor ambirtemperature, the installation of low ambient controls (LA and 8201-008 relay) to unit is required.

A FILTERS

Air filters for the return air side of the system are not provided as part of the basic piece of equipment because of the various types of application for these models, and must be field supplied and installed as part of the final installation.

rior thought should be given to return air location and acement of the air filter(s). The air filter(s) must be of adequate size and readily accessible to the operator of the equipment. Filters must be adequate in size and properly maintained for proper operation. If this is not done, excessive energy use, poor performance, and multiple service problems will result. IT IS IMPOSSIBLE TO OVERSIZE AIR FILTERS. Generous sizing will result in cleaner air and coils, as well as lower operating costs and extend the time between required changes. The following table shows minimum filter areas and recommended filter sizes. Actual filter sizes can vary with the installation due to single or multiple returns utilizing a filter/grille arrangement or being placed immediately ahead of the indoor coil face in the return air duct.

Model	Minimum Filter Areas	Recommended Size
2, 2.5 & 3 Ton	462 sq.in.(3.21 sq.ft)	12 × \$0-5/8 × 1
3.5, 4 and 5 Ton	608 sq.in.(4.62 sq.ft)	(2) 16 x 20 x 1

NOTE: If Roof Hood Accessory is to be used, information on air filters may be found under that heading in this manual. Air filters are supplied as part of that package.

WIRING - MAIN POWER

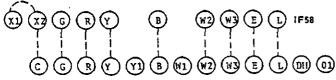
Refer to the unit rating plate for wire sizing information and maximum fuse size. Each outdoor unit is marked with a "Minimum Circuit Ampacity." This means that the field wiring used must be sized to carry that amount of current. If field installed heaters are added to the basic unit, a second, separate power supply circuit will be required. The heater rating plate located adjacent to the basic unit rating plate will show the appropriate circuit ampacity, fuse size, etc. (Also 'ee "Electrical Data" on page 1) Some models are suitable only in connection with copper wire, while others can be wired with either copper or aluminum wire. Each unit and/or wiring diagram will be marked "Use Copper Conductors Only" or "Use Copper or Aluminum Conductors." These instructions MUST BE adhered to. Refer to the National Electrical Code for complete current carrying capacity data on the various insulation grades of wiring material.

The electrical specifications on page 1 lists fuse and wire sizes (60°F copper) for all models, including the most commonly used heater sizes.

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.

WIRING - 24V CONTROL CIRCUIT

Ten (10) wires should be run from thermostat subbase to the 24V terminal board in the unit. A nine conductor, 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.



Unit 24V terminal Board

COMPRESSOR CUT-OFF THERMOSTAT & OUTDOOR THERMOSTATS

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.

Outdoor thermostats are available to hold off various banks of electric heat until needed as determined by outdoor temperature. The set point of either type of thermostat is variable with geographic region and sizing of the heating equipment to the structure. Utilization of the Heating Application Data and the heat loss calculation of the building are useful in determining the correct set points.

COMPRESSOR CUT-OFF AND OUTDOOR THERMOSTAT WIRING

See specific wiring information for the different models, heater Kw's, and voltages on page 5.

THERMOSTAT INDICATOR LAMPS

The red iamp 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 MALFUNCTION RELAY(Single 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.

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.

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 contacts 3–5 and defrost relay contacts 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°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.

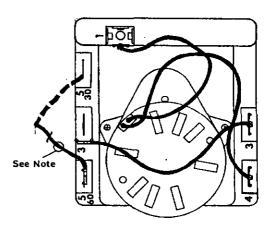
There are two time settings on the defrost timer--30 minutes, and 60 minutes. Most models are shipped wired on the 60 minute setting for greatest operating economy. If special circumstances require a change to the shorter time, remove wire connected to terminal 5/60 and reconnect to terminal 5/30.

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.

IMPORTANT INSTALLER NOTES

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

DEFROST TIMER WIRING



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.

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.
- 4. Check all power fuses or circuit breakers to be sure that they are the correct rating.
- Periodic cleaning of the outdoor coil to permit full and unrestricted airflow circulation is essential.

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.
2 Ton	800	52 - 54	64 - 66
2.5 Ton	1075	58 - 60	66 - 68
3 Ton	1275	55 - 57	60 - 62
3.5 Ton	1500	60 - 62	67 - 69
4 Ton	1700	51 - 53	60 ~ 62
5 Ton	1700	59 - 61	64 - 66

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 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.

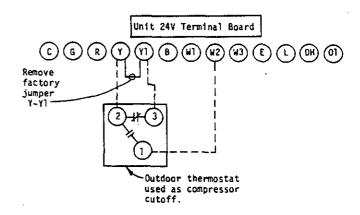
IMPORTANT

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 SYS-TEM DISCOMMECT SWITCH THIS ENER-GLZES THE COMPRESSOR HEATER WHICH EVAPORATES THE LIQUID RE-FRIGERANT IN THE CRANKCASE.
- 3, ALLOW 4 HOURS OR 80 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.
- S. EXCEPT AS REQUIRED FOR SAFETY WHILE SERVICING DO NOT OPEN SYSTEM DISCONNECT SWITCH.

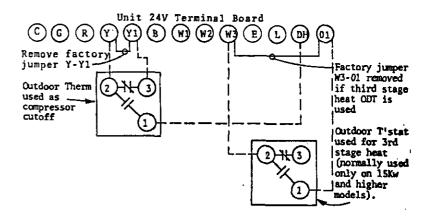
7961-061

COMPRESSOR CUT-OFF WIRING



MODEL	<u>kw</u>	<u>VOLTS</u>	PHASE
2 Ton	G, 5, 8	230	1
2.5 "	0, 5, 8, 10	230	1
3 "	0, 5, 8, 10	230	1
3.5 "	0, 5, 10	230	1
3.5 "	0, 9, 15	230	3
4 **	0, 5, 10	230	1
4 0	0, 9, 15, 18	230	3
5 "	0, 5, 10	230	1
5 "	0, 9, 15, 18	230	3

COMPRESSOR CUT-OFF & OUTDOOR THERMOSTAT WIRING



OPTIONAL ELECTRIC HEATERS

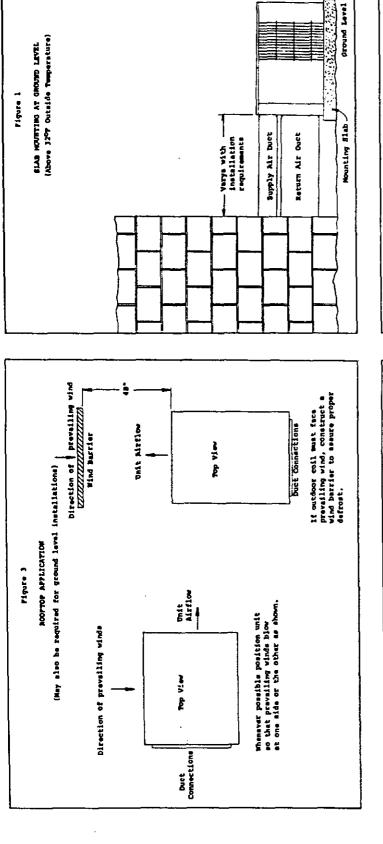
These packaged heat pumps are manufactured without supplementary electric heaters. Supplementary heaters EH3PA series (to fit 2, 2.5 and 3 ton) and EH5PA series (to fit 3.5, 4 and 5 ton) are available for simple, fast field installation.

A separate field power circuit is required for the supplementary heaters.

Refer to the electrical data shown on page 1 for proper application information on all available heater combinations and what units they can be used with. It also shows the applicable circuit ampacities, fuse size and wire size for each heater combination.

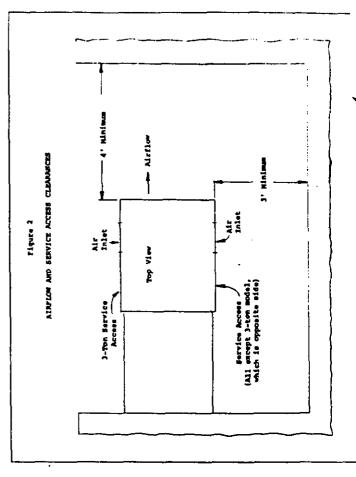
Refer to the Installation Instructions packed with the heater for details on how to insert it into the basic unit.

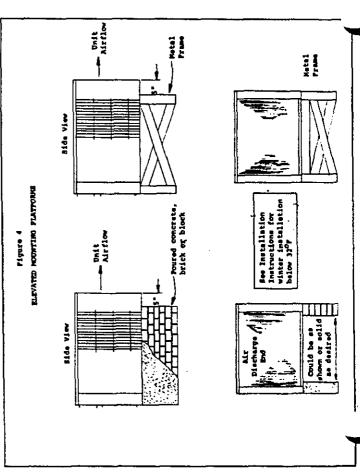
MODEL	<u>kw</u>	VOLTS	PHASE
2.5 Ton	15	230	1
3 Ton	15	230	1
3.5 Ton	15, 20	230	1
4 Ton	15, 20	230	1
4 Ton	18	230	3
5 Ton	15, 20	230	ī
\$ Ton	18	230	3



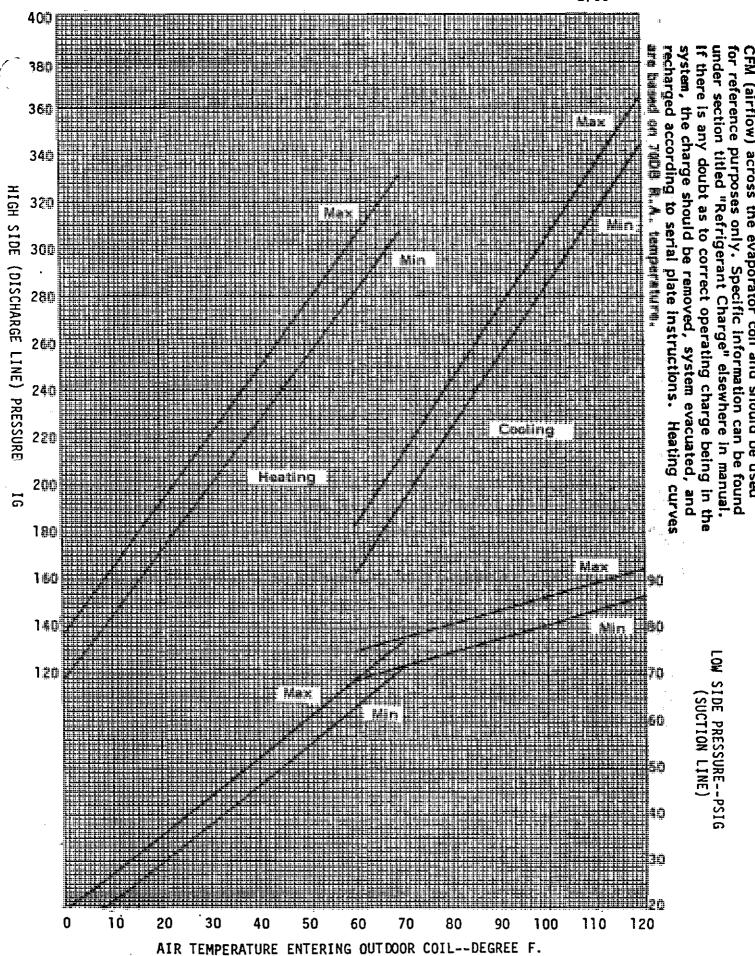
1/4" per foot slope ever from building

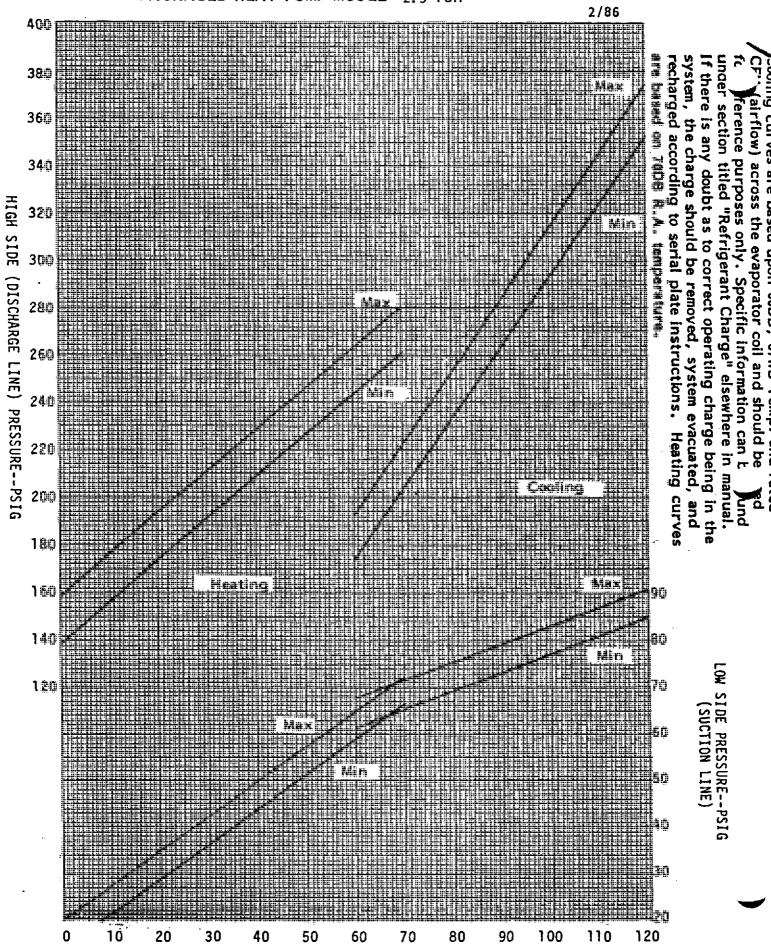
Arrio



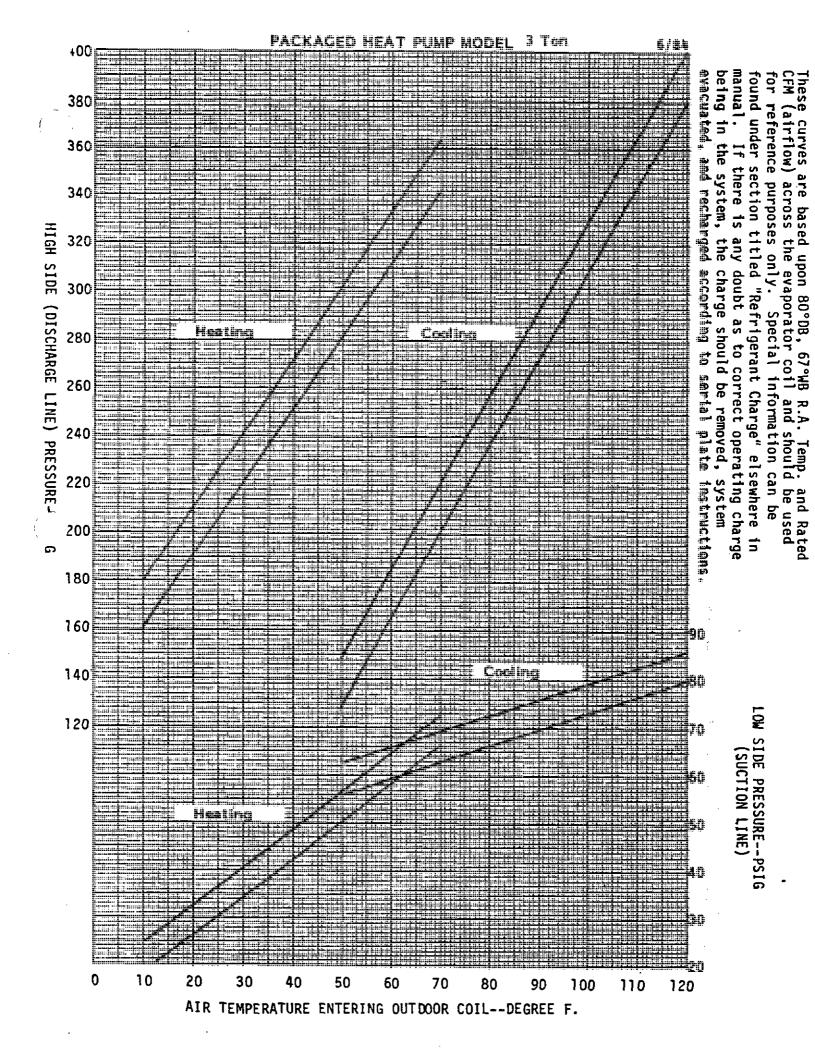


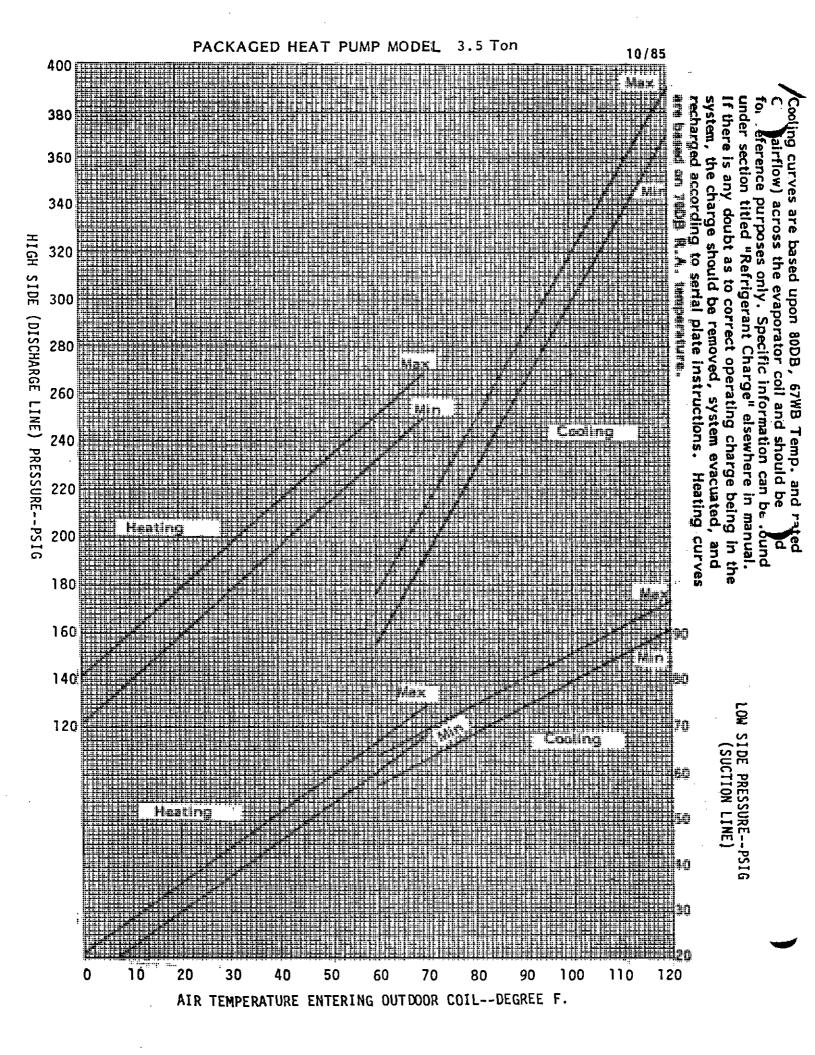
Cooling curves are based upon 80DB,

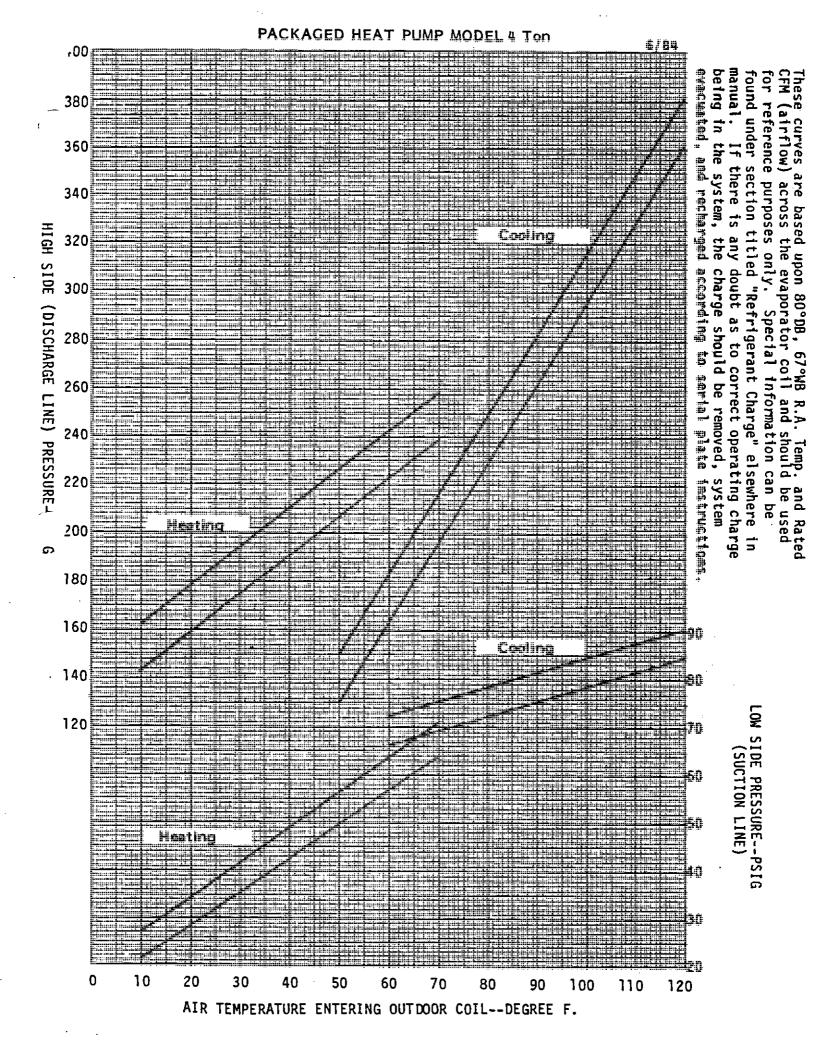




AIR TEMPERATURE ENTERING OUTDOOR COIL--DEGREE F.







AIR TEMPERATURE ENTERING OUTDOOR COIL - DEGREE F

PACKAGED HEAT PUMP MODEL

380

5 Ton

6/84

13 curves are based upon 80DB, 67WB R.A. Temp. and

Rated

9/86 5 Ton H_o Ton MFRS. PART NO. DESCRIPTION ~ 3 5202-003 Accumulator X X 5202-004 Accumulator X Blower Housing 10-8 X X Blower Wheel DD10-8A 5152-013 Blower Wheel DD10-4A 5152-008 X 8552-002 Capacitor - Fan & Blower 5/370 (2) (2) (2) 8552-032 Capacitor - Comp. 35/370V Capacitor - Comp. 40/370V 8552-035 X Capacitor - Comp. 35/440V 8552-028 X Capillary Tube - Heat 5811-037 (2)Capillary Tube - Cool (2) 5811-009 Capillary Tube - Cool Capillary Tube - Heat 5811-034 (2) 5811-021 5811-014 Capillary Tube - Heat & Cool (4) Check Valve 5651-036 X × Condenser Coil 5051-003 x Condenser Coil 5051-042 × 8000-090 Compressor - H22B233ABCA X Compressor - H23A303ABCA 8000-092 X 8000-058 Compressor - CRJ3-0300-PFV X 8401-007 Contactor - 1P25A X X X 8401-002 Contactor - 3P25A Defrost Mounting Plate 8408-004 X X X 8408-012 **Defrost Thermostat** X X X **Evaporator Coil** 5060-037 X Evaporator Coil 5060-023 X X Fan Blade BT2026-2 5151-034 X Fan Blade TP2026 cw 5151-004 X X Motor - Blower 1/3 ccw 8105-027 Motor - Blower 1/3 ccw 8105-024 X X Motor - Blower 1/3 ccw Motor - Fan 8105-016 8103-016 X Motor - Fan 1/5 8103-009 X X Motor - Fan 1/5 cw 8103-014 7051-001 Condenser Grille X Wire Grille - Inlet (2) (2) 7051-015 (2) 8406-010 High Pressure Switch X X X Motor Mount - Blower X X 8200-003 X 8200-001 Motor Mount - Fan X X X 5451-011 Motor Mounting Parts X X X

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		<u> </u>		
MFRS. PART NO.	DESCRIPTION	2 Ton	2.5 Ton	3 Ton
8201-008	Relay – Blower	×	×	×
8201-032	Relay - Blower	l	[1
8201-024	Relay - Compressor Fault	×	×	l x
8201-047	Relay - Defrost	×	×	×
8201-013	Relay - Emergency Heat	×	×	×
5650-005	Reversing Valve	×	×	1
5650-013	Reversing Valve			×
5650-008	Solenoid Coil	×	×	×
5210-004	Strainer	(2)	(2)	×
5210-002	Strainer	T		×
8607-015	Phenolic Insulator	ł	1	
8607-010	Terminal Board 24V	×	×	×
8607-013	Terminal Block 230V	×	×	×
8607-014	Terminal Block 230V	1]	1
8612-012	Timer	\ x	×	×
8407-025	Transformer 55VA	×	×	×
8407-037	Transformer - Stepdown	1	1	
4065-114	Wiring Diagram	×	<u> </u>	<u> </u>
4065-111	Wiring Diagram			
4065-110	Wiring Diagram		×	
		Ţ	1	X

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Mfrs. Part No.	Description	3.5 Ton	3.5 Ton 3-Ph 230v	4 Ton	4 Ton 3-Ph 230v	5 Ton	5 Ton 3-Ph 230v
5202-005	Accumulator	×	×	×	×		
5202-008					1	×	×
*	Blower Housing	×	×	×	×	×	×
5152-045		×	×				
5152-015	Blower Wheel DD10-10A		li	×	×	×	×
8552-030		×	<u> </u>	×			
8552-005	Capacitor - Blower 10/370V	×	×	×	х	×	×
8552-026	Capacitor - Fan 15/370V	×	×	×	x		
8552-004						×	×
8552-043						(2)	
5811-016	Capillary Tube - Cool	(2)	(2)				
5811-020	Capillary Tube - Cool & Heat	(2)	(2)	(2)	(2)		
5811-027		(2)	[(2)	(2)	(2)		Ì
5811-027		j		(2)	(2)	(2)	(2)
5811-032			 			(2)	(2)
5651-036		x	×	×	×	(2)	(2)
5051-029		x	x	x	x	x	x
8000-063	1	1 x	 ^ -		 ^ -	-	 ^
8000-064	Compressor CRK3-0325-TF5-270		×				
8000-081	Compressor AV168ET-005-A4	 	 	×		 	
8000-082	Compressor AV169RT-012-A4				×		
8000-074	Compressor AG134ET-002-A4	 			 	×	
8000-075	Compressor AG134RT-002-A4						×
8401-007		×					
8401-002	1		×		×		
8401-003	Contactor R8243A1007			х	<u>L</u>		<u> </u>
8401-016	I - · · · · · · · · · · · · · · · · · ·	j]	X	ļ — —
8401-011		1	1		Į.	1	×
8408-004	<u> </u>	×	×	х	×	x	×
8408-012	1	×	×	×	×	×	×
5060-025	, , , , , , , , , , , , , , , , , , ,	×	×	×	×	X	×
5151-029	<u> </u>	<u> </u>	<u>×</u>	×	X	<u> </u>	
5151-030		1	1	1		×	х
7051-005		×,	X	(2)	X	X	(2)
7051-007	Wire Grille - Inlet	(2)	(2)	(2)	(2)	(2)	(2)

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Mfrs. Part No.	Description	3.5 Ton	3.5 Ton 3-Ph 230v	4 Ton	4 Ton 3-Ph 230v	5 Ton	5 Ton 3-Ph 230v
8406-010	High Pressure Switch	×	×	×	×	×	×
8106-015	Motor - Blower 1/2 hp	×	×	x	×	×	×
8105-021	Motor - Fan 1/3 hp	×	×	×	×		1
8106-016	Motor - Fan 1/2 hp					×	×
8200-003	Motor Mount - Blower	×	×				
8200-004	Motor Mount - Fan	×	x	×	×	×	×
5451-011	Motor Mounting Parts	×	×	×	×	×	×
8201-008	Relay - Blower	×	×	×	×	×	×
8201-024	Relay - Compressor Fault	×		×		×	
8201-047	Relay - Defrost	×	×	×	×	×	X
8201-013	Relay - Emergency Heat	×	×	×	×	×	×
5650-006	,	<u>) x </u>	×	×	×		
5650-010	,					×	×
5650-008	Reversing Valve Solenoid Coil	x	×	×	×	×	×
5210-005	1	(2)	(2)	(2)	(2)	(2)	(2)
8607-010	Terminal Board	×	×	×	×	×	×
8607-013	•	×	1	×	ł	×	1
8607-014		<u> </u>	×	<u> </u>	x		X
8612-012	• • • • • • •	×	×	×	×	×	×
8407-035	· · · · · · · · · · · · · · · · · · ·	X	×	X	×]	×
8407-004		 	├ ──	 -	 		
8201-045	•		l	1	1	×	
8407-036	§ .		l			×	
8614-036		1	1		<u> </u>	×	1
8200-028 4066-111	Motor Mount			X	×	×	X
4066-110	Wiring Diagram Wiring Diagram	×	1	×			
į ·	1 1		1		ł	×	
4066-210	Wiring Diagram		×	1	×	1	×