

INSTALLATION
OPERATION
MAINTENANCE
AND PARTS
MANUAL

MAXI-KOOL
HEAT PUMP

COMPU-AIRE, INC.

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INSPECTION

Upon receipt of equipment inspect any visible or concealed damage and promptly report the same to the carrier and file a damage claim. **IT IS THE RESPONSIBILITY OF THE RECEIVER. COMPU-AIRE, INC. IS NOT RESPONSIBLE.**

Then verify the exact voltage of the unit and compare with the voltage source. In case there is any disagreement, contact the factory.

GENERAL DESCRIPTION

GENERAL

COMPU-AIRE Model MAXI-KOOL Heat pump unit is a compressorised air cooled self contained Heat Pump. An external source of electrical power 208/3/60, or 460/3/60 typically is the only electrical utility connection required. In addition, two condensate drain connections and supply and return air connections are required.

MAJOR COMPONENTS

Major components of the air conditioner are:

1. Evaporator section consisting of:
 - Evaporator blower and motor.
 - Evaporator coil with externally equalized expansion valve.
2. Condensing section consisting of :
 - Condenser blower and motor.
 - Condenser coil with externally equalized expansion valve.
 - Compressor.
 - Reversing valve.

LOW AMBIENT CONTROL (OPTIONAL)

An optional low ambient damper may be provided where unit is required to operate at temperatures below 60°F.

SELECTION OF INSTALLATION SITE

Prior to installing the unit check the structure thoroughly. Ascertain the location of wiring, condensate disposal, ductwork location, ease of access to the unit for maintenance and service. 24" minimum clearance must be provided on all sides except in front of the control panel where 36" clearance is required.

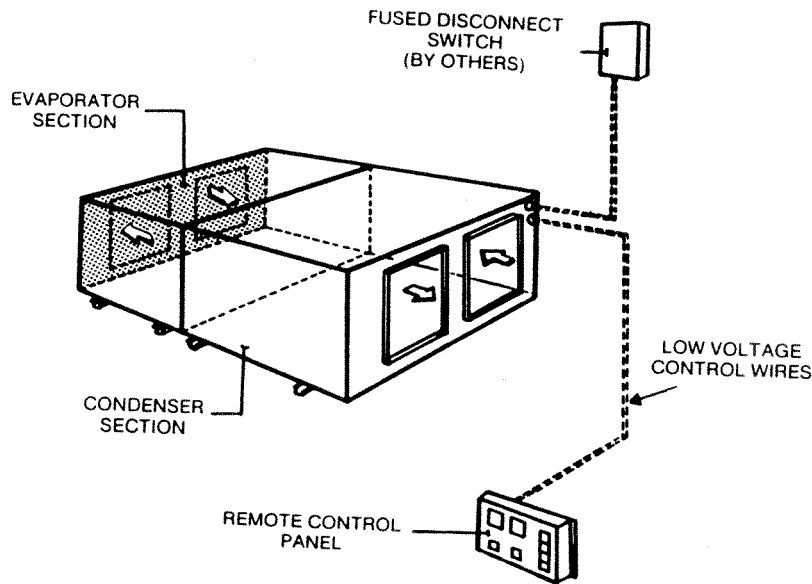
Loading limitations of walls, ceilings, and floors must be paid particular attention to.

UNIT MOUNTING

MAXI-KOOL units are designed to meet various air conditioning and heating requirements. MAXI-KOOL unit lends itself to be mounted on the floor or suspended from the ceilings.

For ease of passage through tight spaces, unit can be turned on its sides (extreme care should be exercised while turning the unit on its side). **ANY DAMAGE CAUSED DUE TO THE UNIT BEING TURNED ON ITS SIDE IS THE RESPONSIBILITY OF THE CONTRACTOR.**

Unit is shipped as a complete package with evaporator and condensing section attached together. Refer to the following sketch. If the unit is to be ceiling hung use 3/8" minimum diameter hanging rods with washers, locknuts and vibration isolators. Hanger hardware is to be field supplied.



TYPICAL FIELD WIRING HEAT PUMP (MKH)

ELECTRICAL DATA**208 V/1 PH/60 HZ**

FLA	20.8	40.1	48.3	56.3	N/A
MCA	23.5	42.7	56.0	64.8	N/A
MFS	35.0	70.0	90.0	100.0	N/A

208 V/3 PH/60 HZ

FLA	14.0	22.1	25.7	32.8	43.3
MCA	16.0	25.7	30.2	38.1	50.8
MFS	25.0	40.0	50.0	60.0	80.0

460 V/1 PH/60 HZ

FLA	6.6	10.3	12.2	14.8	21.8
MCA	7.5	11.9	14.3	17.2	25.7
MFS	15.0	25.0	25.0	25.0	40.0

PIPING DATA

Condensate Drain-O.D.	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"
*Liquid Line-O.D.	3/8"	1/2"	5/8"	5/8"	(2)5/8"
*Discharge Line-O.D.	1/2"	1/2"	5/8"	5/8"	(2)5/8"
Humidifier Supply	1/2"	1/2"	1/2"	1/2"	1/2"

* For Split Units

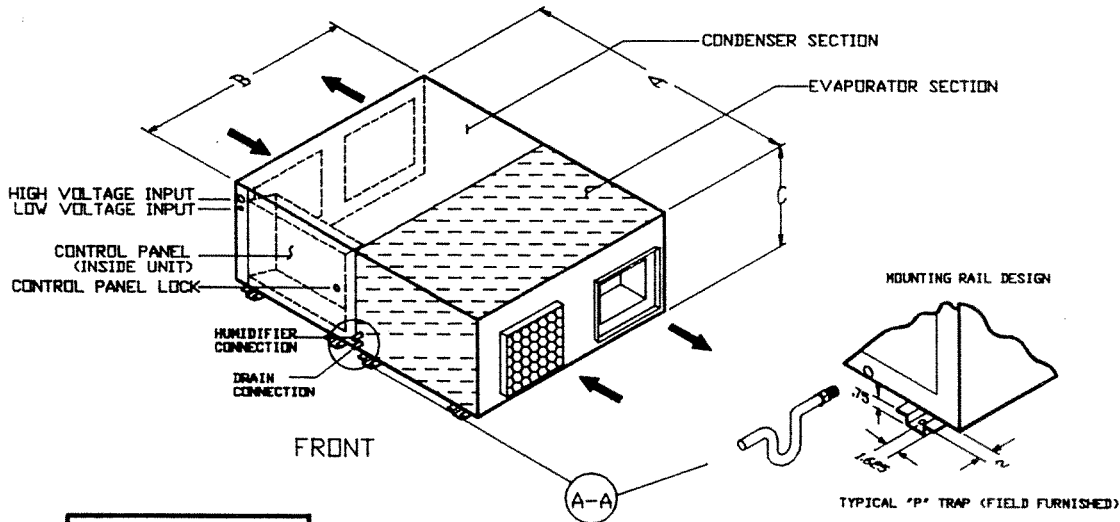
DIMENSIONAL DATA

* AIR COOLED MKA/MKH: ONE PIECE OR SPLIT SYSTEM

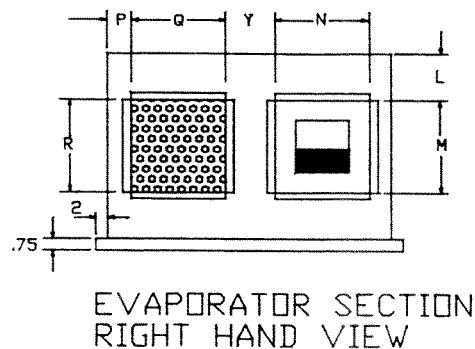
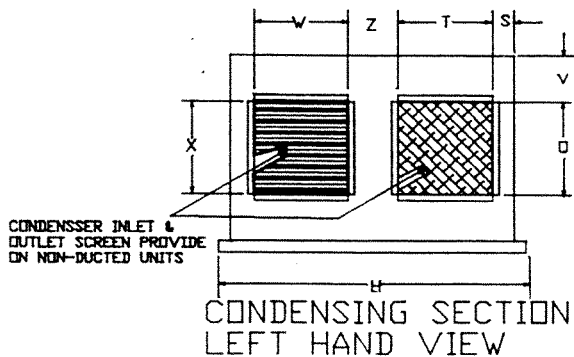
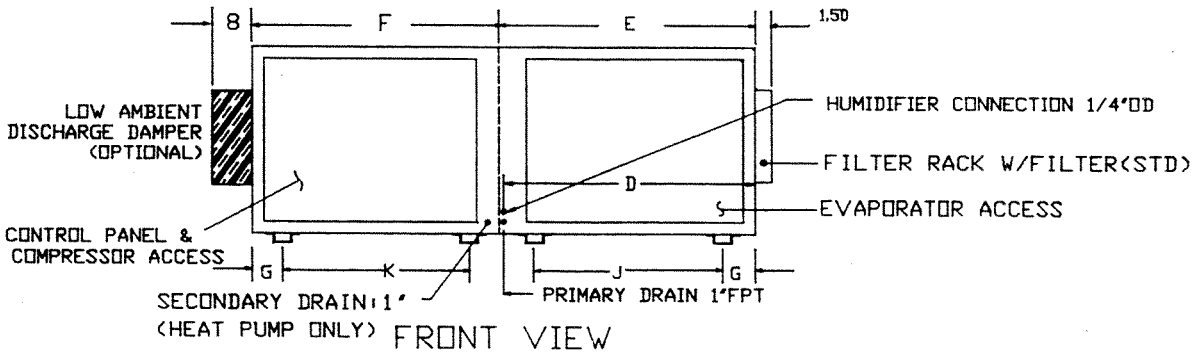
NOM. TONS	A	B	C	D	E	F	G	H	J	K	L	M
2 & 3	62	45	24	29	30	32	3	49	24	26	2.5	14
4 & 5	82	52	30	30	42	40	3	56	36	34	4	18
8	80	72	30	45	40	40	3	76	34	34	4	18

NOM. TONS	N	P	Q	R	S	T	U	V	W	X	Y	Z
2 & 3	12	4	18	18	1.5	16	16	2	16	16	6.5	9.5
4 & 5	18	4	23	18	1.5	18	20	3	18	18	3.5	12.5
8	20	4	30	23	2	24	24	3	20	20	14	20

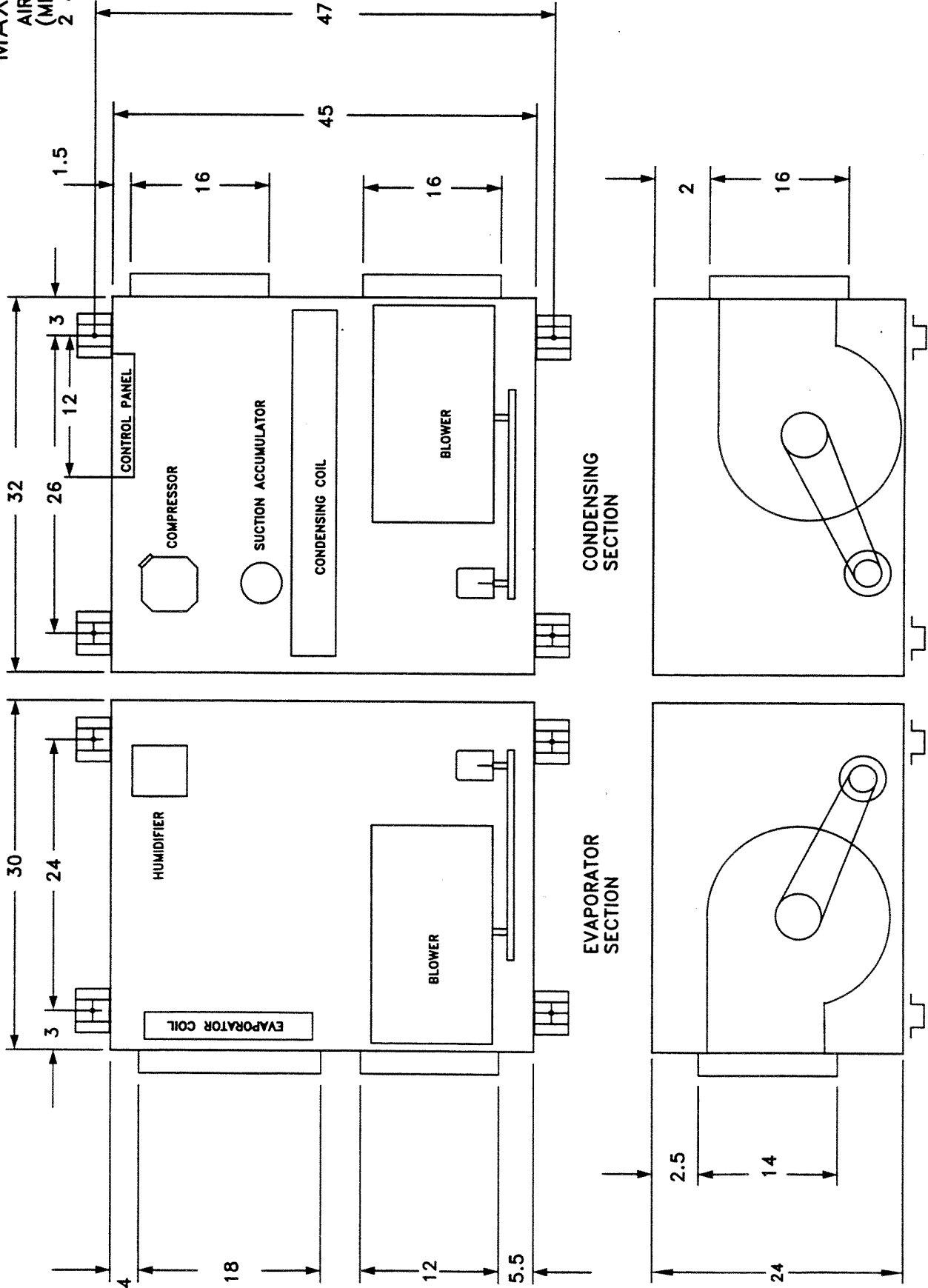
WEIGHT LBS (APPROXIMATE)			
NOMINAL TONS	EVAPORATOR SECTION	CONDENSER SECTION	TOTAL
2	240	285	525
3	275	320	595
4	330	430	760
5	340	440	780
8	460	685	1145



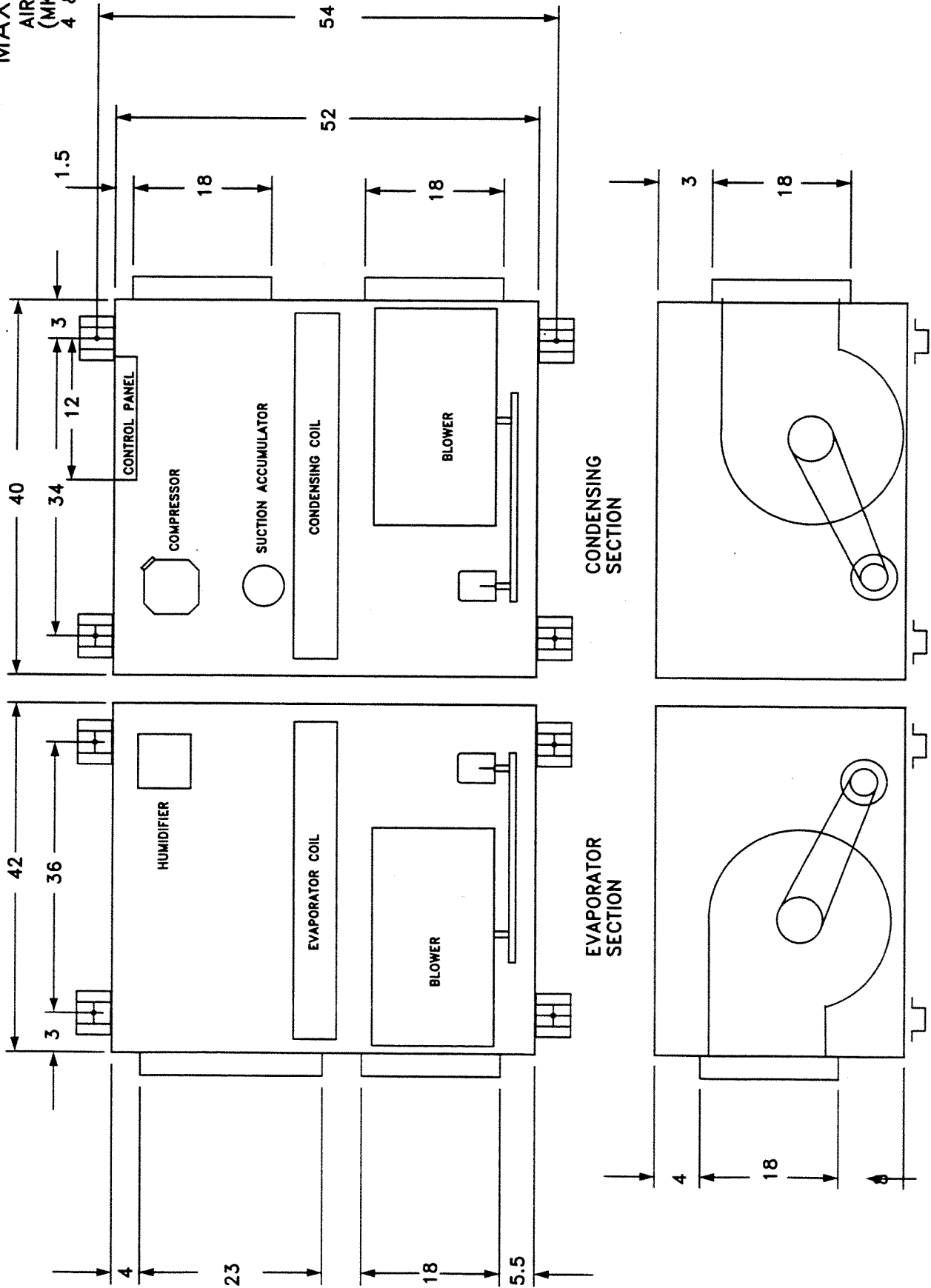
FILTER 2'		
PLEATED 25%		
TON	QTY	SIZE
2&3	1	20X20
4&5	1	25X20
8	2	16X25



MAXI-KOOL
 AIR COOLED
 (MKA)
 2 & 3 TON



MAXI-KOOL
AIR COOLED
(MKA)
4 & 5 TON

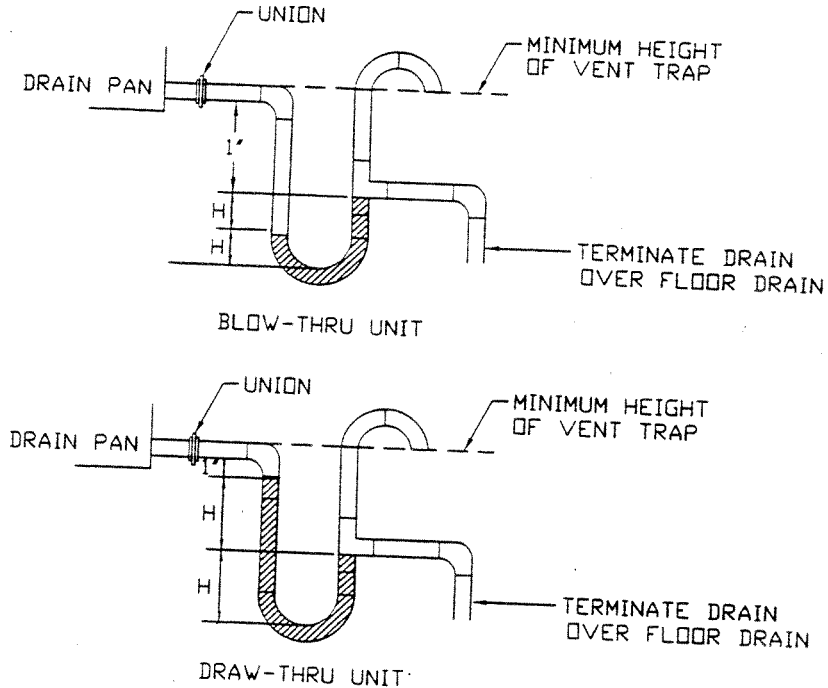


FILTERS

MAXI-KOOL UNITS ARE NOT SUPPLIED WITH FILTERS. Field supply pleated media filters not exceeding 2" thickness.

CONDENSATE DRAIN

Evaporator and the condensing sections are provided with individual condensate drains, 3/4" stub. Hook both drains with "P" traps. Provide 1/4" slope per 10 feet.



NOTE: 'H' EQUALS THE NEGATIVE ESP ON DRAW-THRU UNITS
'H' EQUALS THE TSP ON BLOW-THRU UNITS

AIR FLOW

The evaporator and the condensing sections are provided with variable pitch motor pulley which are field adjustable. Refer to the specification data for the air flow data. In case field adjustments are made, check to verify the motor full load amps.

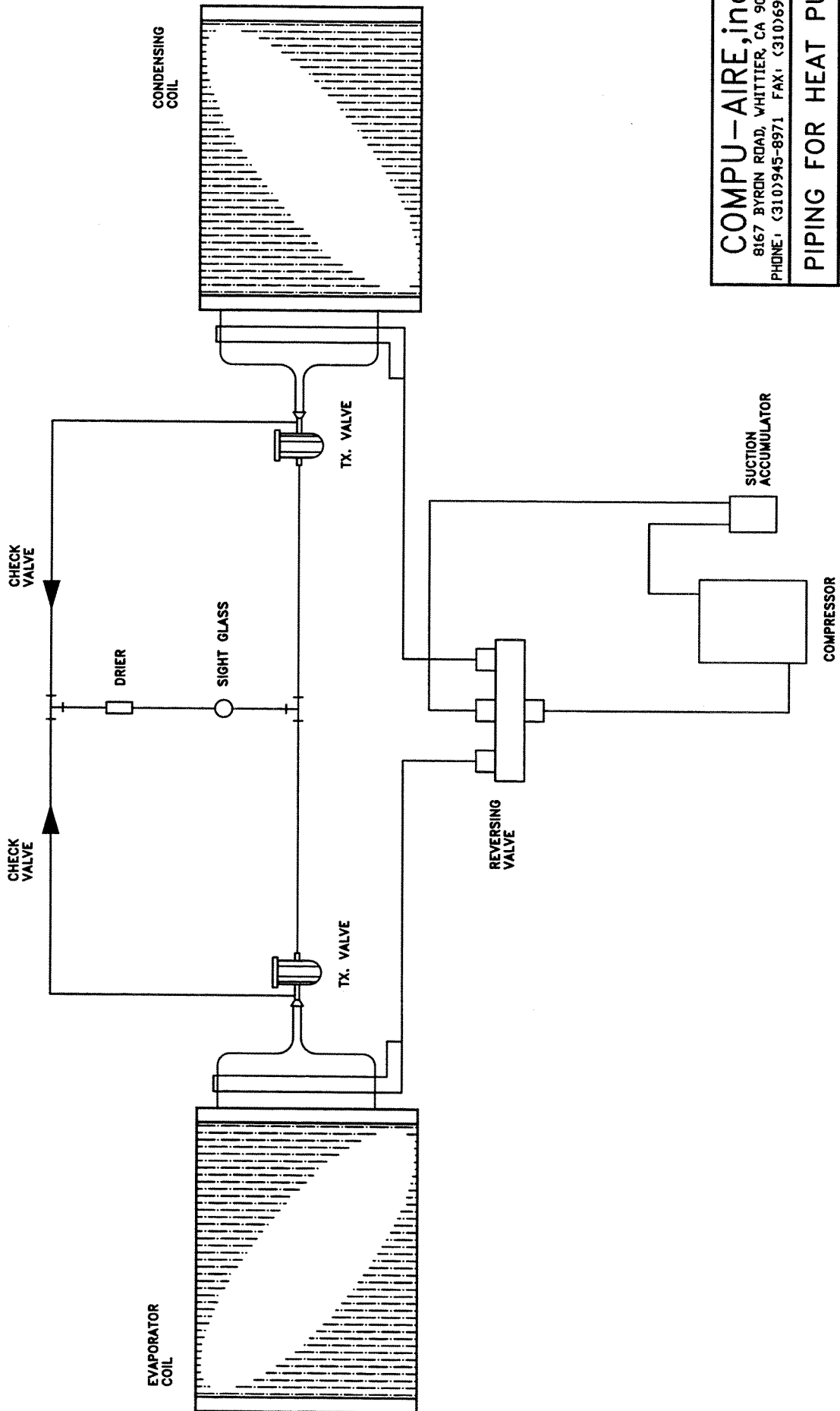
LOW AMBIENT CONTROL

Locations where the **HEAT PUMP** unit is needed to operate below 60°F. A low ambient damper (optional) control is provided for field installation. Please follow instructions supplied with the damper control.

INSTALLATION AND PREPARATION

GENERAL

1. Position unit in desired location, and make sure unit is level.
2. Open access panels and inspect air conditioner thoroughly for broken controls or other damage, such as loose pipes, etc.
3. Check to see that nothing obstructs the flow of air to or from condenser fan and outside air inlet.
4. Remove caps from receiver, and compressor discharge and suction valves. Using wrenches, check to see that these valve stems are backseated as far as they will go. Replace valve caps.
5. Tighten access panels fully to prevent leakage of conditioned air from the cabinet.
6. Evaporator and the condensing sections are provided with individual condensate drains, 3/4" stub. Both of these drains must be field trapped. Provide 1/4" slope per 10 feet. Prime condensate drain.



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PIPING FOR HEAT PUMP

DRAWN BY	DATE
DCW	4-1-91
CHECKED BY	REVISED
APPROVED BY	685-920-007

PER CIRCUIT

SUBJECT TO CHANGE WITHOUT INCURRING OBLIGATION

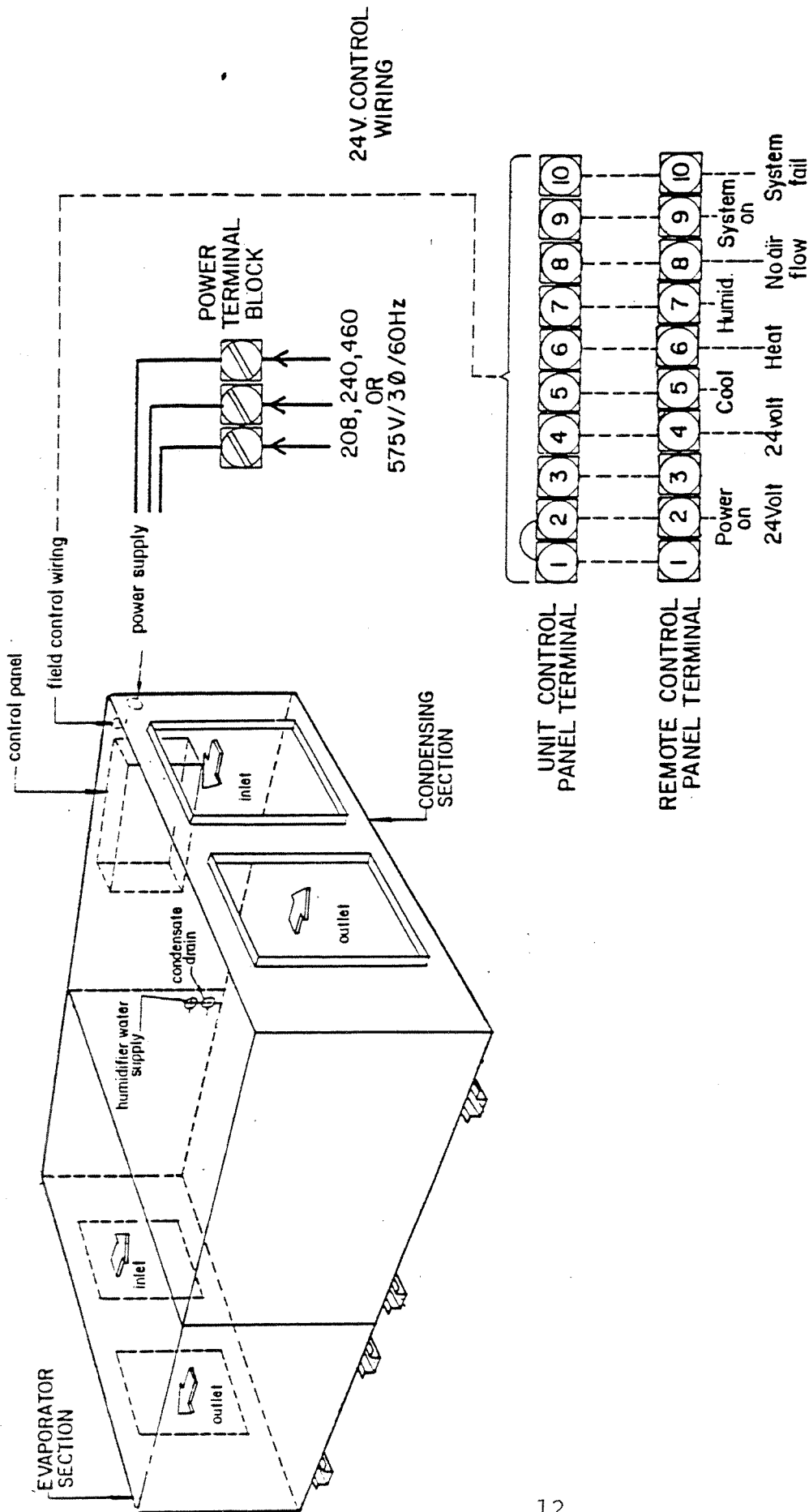
ELECTRICAL

Units are completely wired at the factory. Prior to any electrical hook up, check the following:

1. Verify the unit voltage.
2. Check all connections for tightness.
3. Consult and comply with all applicable local and national codes.
4. Provide fused disconnects for the unit.
5. Low voltage wiring must be 18 gage minimum up to 50 feet run. Factory wiring terminates in the control box.
6. Locate the room thermostat in a location where there will not be any direct air flow, or the outside wall, or near any other heat source which may improperly influence the sensing of the thermostat. Run 18 gage wire between the control box and the thermostat.

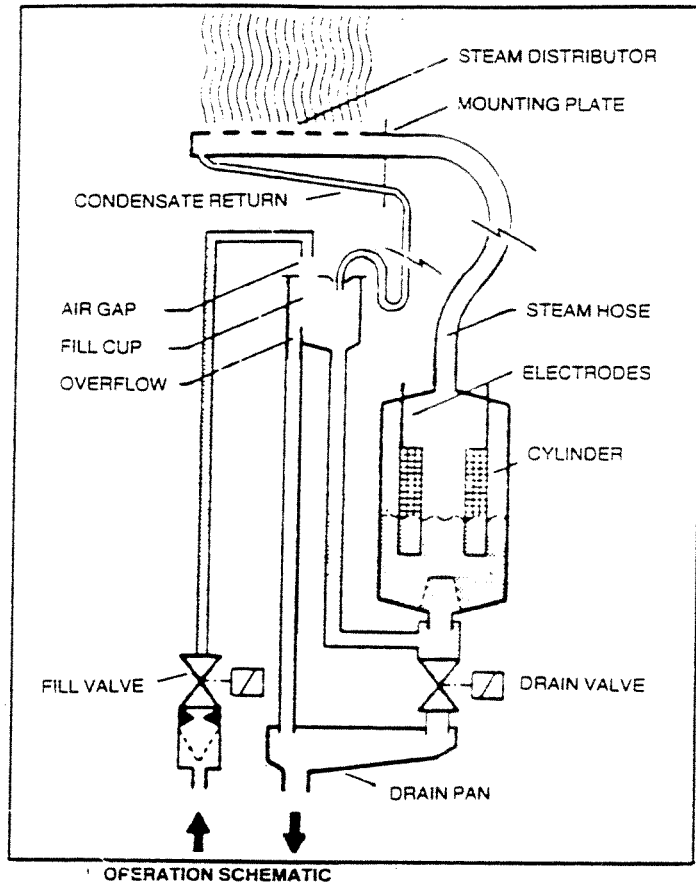
PLEASE MAKE SURE THE THERMOSTAT SELECTED IS SPECIALLY DESIGNED FOR HEAT PUMP OPERATION.

7. Electrically ground unit.
8. Turn disconnect switches to OFF position. Connect unit to source of electric power. Power tolerances are at $\pm 10\%$.



TYPICAL FIELD WIRING MAXI - KOOL

STEAM GENERATOR TYPE HUMIDIFIER
PRINCIPLE OF OPERATION



When the humidistat calls, the cylinder fills to 110% of the Full Load Amperage (F.L.A.) or to the top of the cylinder, whichever comes first.

If it reaches 110% F.L.A. the water heats and boils away to a level giving only 90% F.L.A.

An electronic timer uses the rate of fall to determine the water level. The objective is to concentrate current-carrying minerals in the cylinder so that a smaller volume of water is required to produce the rated steam output.

This achieve the longest life for the disposable cylinder because of minimum electrode coverage and uses less energy because the high concentration allows minimal drain rate.

When it reaches 90% F.L.A. the fill valve comes on. The drain valve should only come on in addition if the water level is too low and a dilution is required. Otherwise this fill boil cycle continues until the water reaches an optimum low water level, always maintaining an average of 100% F.L.A.

If the water reaches top of cylinder before 110% F.L.A. the fill valve shuts off via the sensor and fill-boil-fill-boil cycle continues, cycling off the red full cylinder light until the concentration becomes high enough to reach 100% F.L.A. Then the following described control process takes over.

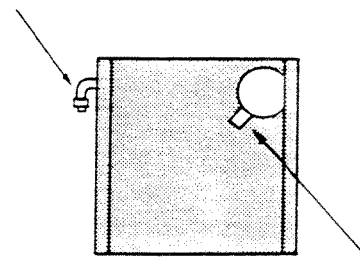
WATER SUPPLY AND PLUMBING

- 1) The orifice in the fill valve(s) is sized for an extended water pressure range of 30 to 85 psi.
- 2) For water pressure between 15 and 30 psi, notify the factory and the next larger size of fill valve will be supplied.
- 3) For cases below 15 psi, notify the factory and fill valve with largely oversized orifice will be supplied.
- 4) For cases above 85 psi, install a pressure reducing valve in the water feed line to the unit. Otherwise insufficient cylinder water will drain when fill and drain mix during the automatic dilution cycle.
- 5) With extremely dirty or muddy water sources, e.g. some well sources, ensure proper filtration by adding an external filter to the water line entering the unit. (Consult factory for accessories such as filters).
- 6) DO NOT soften water with Condair unit because it is much too conductive.
- 7) DO NOT use completely demineralized water with the Condair unit as it is the minerals that allow the electrode principle to work.
- 8) DO NOT use a hot water source as it will cause deposits to eventually block the fill valve orifice.

Water Connection

- 1) A copper compression olive type coupling for 1/4" soft copper tubing is provided with unit and requires no soldering for the water connection to the unit.

1 1/4" COLD WATER OLIVE CONNECTION



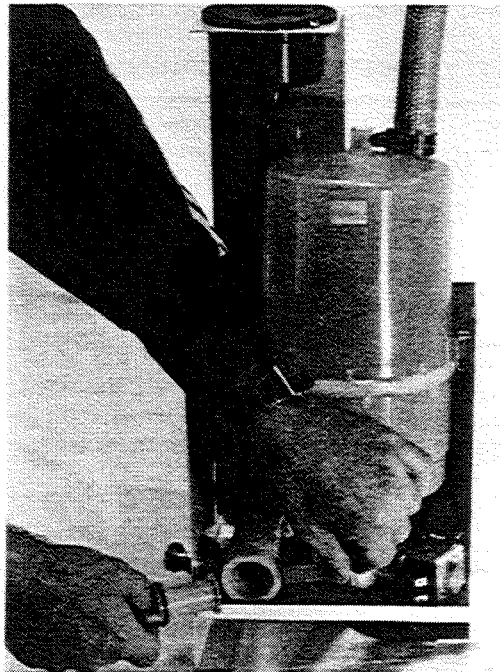
7/8" DRAIN CONNECTION

- 2) An isolating gate valve should ALWAYS be placed in feed water line allowing service of the fill valve.
- 3) Each unit is fitted with a fill solenoid valve located on the base drain pan. Flow orifices are designed for water pressures from 30-85 psi and are protected by the built-in strainer.
- 4) For inlet water pressure outside this range, the factory should be contacted. (See also water supply section)

The Inlet Water Strainer

The fill solenoid is equipped with a built-in serviceable strainer to prevent foreign particles, such as sand or solder from blocking the fill orifice.

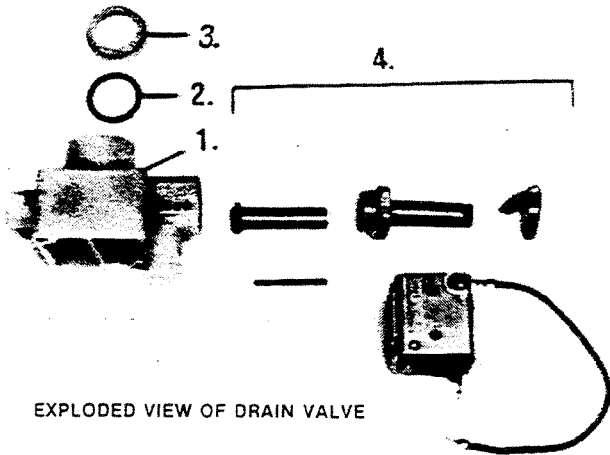
- 1) To clean the strainer, first turn off the unit, close the gate valve on the water supply line, remove the locking bar located in the fill solenoid and slide out the strainer.
- 2) Rinse the strainer and back flush it thoroughly with tap water to ensure the removal of all debris.
- 3) To re-install strainer, reverse procedure.



STRAINER

Drain Connection

- 1) Unit is equipped with a 7/8" O.D. unthreaded drain outlet on the underside of the base drain pan. Cut a few inches of steam supply hose, available from the factory, and connect from drain outlet to 3/4" nominal diameter copper pipe and route to closest (floor) drain.
- 2) Where municipalities, counties or cities require an air gap to isolate unit from sanitary drainage system, a funnel drain under the unit should be incorporated.
- 3) Drain canal on bottom of unit must be removed and cleaned at least once a year. Ensure that rubber gasket is re-installed properly.



ITEM NO.	DESCRIPTION	NORTEC P/N
1	VALVE BODY (Small)	132-4042
1	VALVE BODY (Large)	132-4041
2	O-RING	132-5014
3	STUFFING BLOCK	132-1042
4	COIL ASSEMBLY COMPLETE	132-6002

- 4) Drain valve must be disassembled and cleaned each time a cylinder is replaced. (These three components, i.e. drain canal, drain valve and cylinder are continually exposed to concentrated mineral water.

REPLACEMENT OF THE STEAM CYLINDER

Consult factory or agent for replacement. Quote the cylinder model from the white 3-digit label on the cylinder or quote model, voltage and serial number from unit specification label.

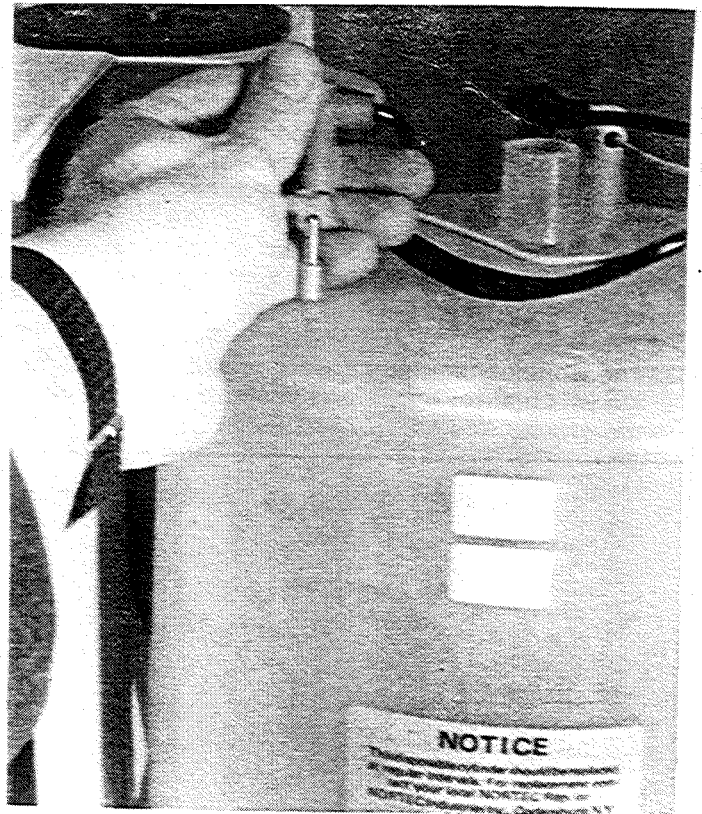
After an extended period of operation in accordance with life expectancy information, see Figure 24, the cylinder is completely used as indicated by a red light illuminated on the face of the cabinet. When this condition is reached, a new replacement cylinder is to be installed.

NOTE: Red light may come on during initial start-up but does not mean cylinder replacement.

Any time that the unit is going to be shut down for an extended period of time, including summer shutdown, ALWAYS drain down the cylinder before disconnecting power. Otherwise, the electrodes are subject to harmful corrosion.

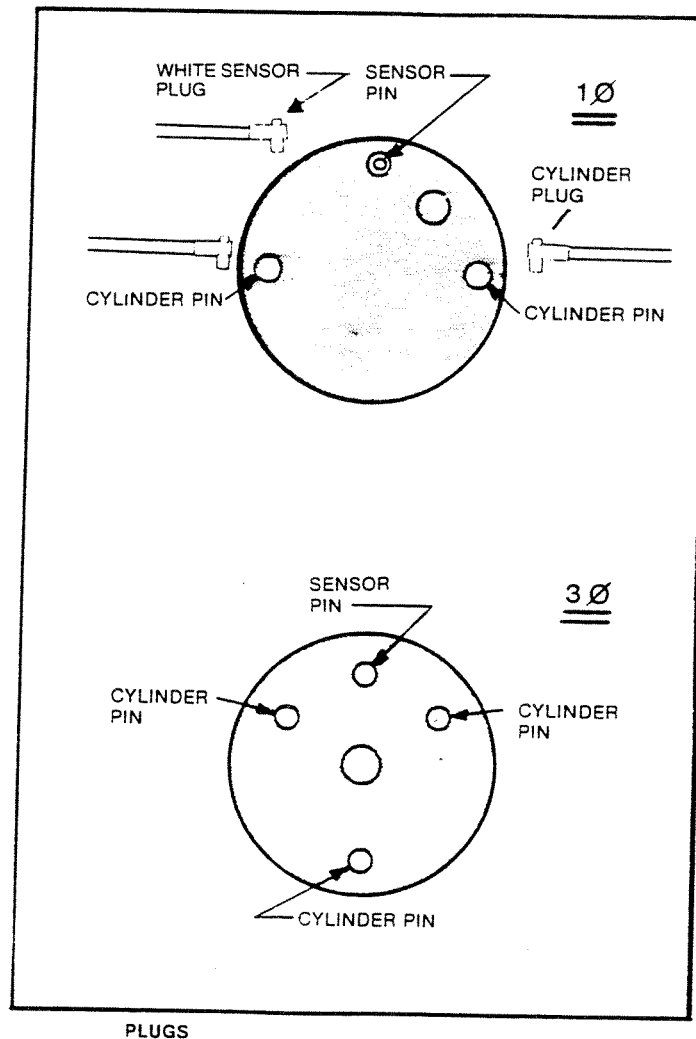
REMOVING THE CYLINDER

- 1) Turn off the water supply to the unit.
- 2) The old cylinder must be drained completely before removing. This is done by pushing the auto on/off drain switch to the "drain" position.
- 3) When completely drained, push the auto/on/off drain switch to the "off" position.
- 4) Open the main disconnect during the entire cylinder change operation.
- 5) The power wires to the cylinder are attached by cylinder plugs to the electrode pins on top of the cylinder. Pull these plugs vertically off the pins.
- 6) Using slot screw driver, loosen the steam hose clamp(s) and pull steam hose off vertically.
- 7) The cylinder is now ready to be lifted out of the unit.



INSTALLING THE NEW CYLINDER

- 1) The reverse procedure should be followed to install a new cylinder. The main disconnect is to be left open until the cylinder is completely installed and reconnected.
- 2) Ensure that the cylinder mounting stubs are seated properly in the allotted side mounting slots within the unit.
- 3) The white cylinder plug on all units is for the sensor electrode which always goes on the single pin offset from the others.



- 4) Ensure that cylinder plugs are very snug on the pins.
- 5) For loose fitting plugs, squeeze with a pliers before installing, since loose plugs may generate enough heat to melt and destroy the plug and cylinder.

TROUBLE-SHOOTING HUMIDIFIER

Auto on/off/drain switch in "on" position-unit will not fill:

When the on/off control circuit is made and the "auto on/off/drain" switch is pushed to "on", the 24 volt holding coil of the primary contactor should energize. The resulting magnetic pull closes the high voltage contacts with a distinct and audible "clunk". If the contactor will not make, then inspect the following while referring to the wiring diagram.

- 1) Check for 24VAC across pins 33 and 39.
- 2) Jumper contacts 1 & 2 on external control terminal strip. If contactor operates then control system is at fault.
- 3) The low voltage 3 amp fuse located on front of the unit.
- 4) The "on/off" jumper plug connection on the basic unit.
- 5) The wire ribbon connecting the basic unit to the current transformer board.
- 6) The contactor holding coil could be open or shorted.

Recheck that the "auto/on/off drain" switch is still at "on". If it is, then shut off the main disconnect and check fuses or breaker of the main disconnect. If they are serviceable, turn power back on.

To test for a defective "auto/on/off drain" switch, disconnect the red wire from pin 38 on the main p.c. board(basic unit) and touch it to pin 39. If the contactor activates, the "on" side of the switch is defective. If the contactor does not activate, then the basic unit p.c. board could be defective.

If the 3 amp control fuse blows when the red wire from pin 38 is touched to pin 39, contactor holding coil could be shorted. After contactor has been replaced and contactor still will not activate then the basic unit "on/off" jumper circuit could be burnt. This can be temporarily bypassed by placing a jumper between terminals 35 and 39 until replacement of the basic unit. Return the red wire to pin 38.

After the necessary components have been replaced and the contactors pull in, there is high voltage to the cylinder(s) and the control sequence can begin.

Approximately 30 seconds after the contactor pulls in, the fill valve coil should energize. There is also a visible fill relay on the basic printed circuit board. It is physically located in line with pin 36. The points on this relay must be touching in order for the fill valve could be energized.

If the points will not touch after the built-in time delay, then the sensor input may be interfering. To confirm, remove the red and black wire sensor input from the male connector on the basic p.c. board. (It is located 1/2" from the right hand side of the board.) wait 30 seconds and if the fill relay point now touch, then sensor should be replaced. If they do not touch, then the basic p.c. board

could be faulty. To confirm, disconnect the red wire from pin 38 and touch it to pin 36. If the fill valve coil activates then the basic p.c. board should be replaced. If it still does not activate then the fill valve coil should be replaced.

Having changed the necessary components, water starts filling the cylinder and begins to submerge the electrodes. Because of the high voltage across the electrodes, the water can now conduct electricity.

red Light on- Water at top of cylinder:

- Common occurrence on start-up - See previous pages
- water level should be at the top of the cylinder - if cylinder is new this is normal
- if cylinder is old, it indicates replacement time (can be ordered from factory)

red light on - water NOT at top of cylinder:

- water foaming to top of cylinder to activate red light, also may be accompanied by arcing(flashing)inside cylinder
- indicates abnormal water condition(softened) or over concentration of contained water in the cylinder caused by:

- 1) Blocked water filter(clean)
- 2) Inoperative fill valve(check)
- 3) Inoperative drain valve(check)
- 4) Blocked drain valve(disassemble and clean)
- 5) Blocked screen at bottom of cylinder(remove and back flush)
- 6) Faulty sensor really (remove sensor concentration from p.c. board and wait 60 seconds)
- 7) White sensor plug interchanged with power plug at top of cylinder(white plug should be on terminal offset from the others).

Water remains at high level and won't concentrate:

- normal on cold start-up, can be accelerated by adding maximum 1 tsp. of salt to the cylinder (thorough the plastic fill cup on fill cycle. See page 9).
- if the unit has been operating extensively, observe for normal fill, boil, fill, boil, cycle; no drain should be occurring.

Water beyond top of cylinder up into spout:

- red light not on and fill still activated; jump across connection of sensor on basic unit p.c. board, if fill shuts off, then sensor was faulty.
- if fill remains on when connection is jumped, then basic unit is faulty.
- consult factory for new part and replacement instructions.

Unit drains continually:

- if cylinder almost empty check for magnetic pull on drain solenoid indicating miswiring. If no pull drain actuator is blocked open, remove, disassemble and clean.
- if drain is occurring thorough activated drain valve, valve id miswired or electronics is faulty-consult factory.
- if drain is occurring through the overflow on the fill cup, this is due to an abnormal restriction on the steam line and back pressure forces water out of the cylinder; therefore water cannot concentrate and level must stay high; review installation of steam line to ensure no blockages or excessive static pressure in air system.

To make service simpler and to check on its normal electronic functions, an optional solid state plug-in check adapter is available from the factory at cost by ordering BMF-9513.

START-UP

PHASE I

1. Check all electrical connections for tightness.
2. Check belt tension.
3. Check pulley and motor screws for tightness.
4. Check supply voltage on all three phases. A variance of more than 10% from the nameplate rating cannot be tolerated and may cause component failure and void system warranty.
5. Verify thermostat wiring for correctness.
6. Check to see that the air filter is installed.
7. Turn unit on and check for proper blower motor rotation, both for the evaporator and condenser sections.
8. Check and record the amperages on both motors. This should not exceed the nameplate ratings.
10. Check and record the compressor amperage. Make sure it does not exceed the nameplate readings.
11. Check and record the suction and discharge refrigerant pressures.
12. Turn the thermostat on high to energize the heat pump cycle. Heat should be on and the compressor should be energized. Check and record the amperage. Make sure it does not exceed the nameplate rating.
13. Before completing the start-up procedure, check to make sure the air loop is properly mated to the heat load. Is there any short cycled air? Are there enough grille spaces in the high heat load areas?
14. Set thermostat to desired setting.

HUMIDIFIER START-UP:

Check to see that the unit is securely mounted on a level surface with the proper drain and water supply. Check for correct voltage with appropriately sized service. Check that the steam distributor, steam supply hose and condensate line are correctly installed and routed back to the unit. Ensure that the external control humidistat is located in an area to properly sense the relative humidity to be maintained by the humidifier, and that the inter-connecting low voltage wires between the humidistat and unit's control terminal strip are in accordance with the wiring diagram.

Check all electrical connections for wires which may have become loose in shipping. Components burnt due to loose connection are NOT under warranty.

Check electrode plugs to ensure they are pressed firmly onto the electrode pins. Important: Loose connections will cause overheating of the cylinder plugs and probably melting of the plugs and/or cylinder.

Open the isolating gate valve in the feed water line to the unit.

Make sure the humidistat is set high enough to call for humidification.

Turn on the main disconnect in the primary service feeding the unit and check that unit has power at the primary terminal block.

Water will start to enter the cylinder through its bottom port and rise in the cylinder to a point determined by the solid state control circuitry.

It is not unusual upon initial start-up for the water to fill the cylinder an cycle on the red high water level indicator light.

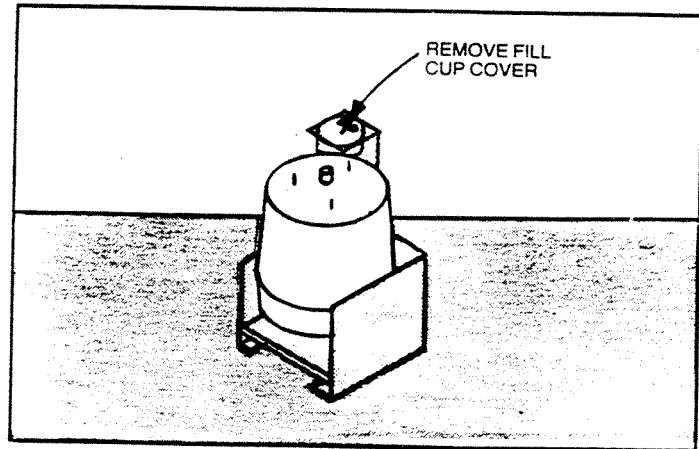
The red light simply acts as a safety to shut off the fill valve and prevent over fitting. With the red light on, the water in the cylinder will continue to heat and after a few minutes start to boil. After the boiling action of the water has lowered the water level go out and fill solenoid will again open until the cylinder is again full.

This cycling of the red light and fill valve will continue until the unit's full output capacity is reached after which the water level will automatically lower itself in the cylinder. (The increased concentration allows for lower electrode coverage while maintaining the same output). When a stabilized condition is reached the water will be boiling close to the cylinder seam level. The solid state circuitry will maintain the proper concentration in the cylinder by introducing short drains only when necessary.

If the cylinder is manually drained, the above process will repeat itself.

LOW WATER CONDUCTIVITY

Should normalization of the unit be required immediately after start-up, the installer may speed up the process by artificially increasing water conductivity. The installer should dissolve half a teaspoon of table salt (no more) in a cup of water and add it to the cylinder by means of the fill cup attached to the plumbing section, during a fill cycle

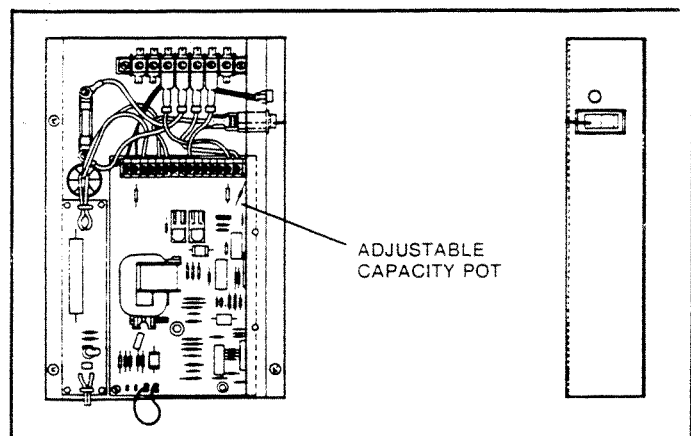


FILL CUP

To obtain access to this fill cup simply pry open the fill cup cover plate. (Do not displace the splash diverter underneath). Excessive amounts of salt will result in erratic operation of the unit; however, normalization of the unit will be corrected automatically through the solid state control sequence.

CAPACITY ADJUSTMENT

The M.E.S. series of humidifiers are factory set to cover most normal conditions. If an extreme situation is encountered notify the factory for instructions.



ADJUSTABLE POT

MAINTENANCE

The items listed below should be maintained on a regular basis. The frequency of the maintenance depends upon the usage of the unit.

FOLLOWING ITEMS SHOULD BE THOROUGHLY CHECKED AT LEAST EVERY 90 DAYS.

1. Filter: Check regularly on a monthly basis and change when necessary.
2. Belts: Check tension and check for signs of wear.
3. Blower bearing collar: Check and tighten if necessary.
4. Electrical connections: Check for tightens especially in the power circuit.
5. Outdoor heat exchange coil: Check for dirt accumulation and clean if necessary.
6. Hanging rods: Check for loose connections.
7. Condensate drain: Check for access dirt or debris collection and clean if necessary.

* It is recommended that these items be checked weekly until a proper maintenance routine can be established.

REPLACEMENT PARTS LIST - MAXI-KOOL HEAT PUMP UNITS

DESCRIPTION	MAKE	MODEL	2T		3T		4T		5T		8T	
			208	460	208	460	208	460	208	460	208	460
COMPRESSOR	COPELAND	CRE-0225TF5	1	-	-	-	-	-	-	-	-	-
COMPRESSOR	COPELAND	CRE-0225TFD	-	1	-	-	-	-	-	-	-	-
COMPRESSOR	COPELAND	CRJ-0300TF5	-	-	1	-	-	-	-	-	-	-
COMPRESSOR	COPELAND	CRJ-0300TFD	-	-	-	-	-	-	-	-	-	-
COMPRESSOR	COPELAND	CRM-0400TF5	-	-	-	-	1	-	-	-	-	-
COMPRESSOR	COPELAND	CRM-0400TFD	-	-	-	-	-	1	-	-	-	-
COMPRESSOR	COPELAND	CRN-0500TF5	-	-	-	-	-	-	1	-	-	-
COMPRESSOR	COPELAND	CRN-0500TFD	-	-	-	-	-	-	-	1	-	-
COMPRESSOR	COPELAND	BRE-0750TF5	-	-	-	-	-	-	-	-	1	-
COMPRESSOR	COPELAND	BRE-0750TFD	-	-	-	-	-	-	-	-	-	1
MOTOR	MARATHON	3/4 HP 1750	2	2	-	-	-	-	-	-	-	-
MOTOR	MARATHON	1 HP 1750	-	-	2	2	2	2	-	-	-	-
MOTOR	MARATHON	1 1/2 HP	-	-	-	-	-	-	2	2	1	1
MOTOR	MARATHON	2 HP	-	-	-	-	-	-	-	-	1	1
HUMIDIFIER	NORTEC	3.4 KW	1	1	1	1	1	1	1	1	1	1
REHEAT ELEMENT	TRU-HEAT	2.5/220V	3	-	3	-	3	-	3	-	6	-
REHEAT ELEMENT	TRU-HEAT	2.5/277V	-	3	-	3	-	3	-	3	-	6
TEMP. LIMIT CONTROL	HONEYWELL	T-497	1	1	1	1	1	1	1	1	1	1
HIGH PRESS. SWITCH	ROBERT SHAW	MG20-2060	1	1	1	1	1	1	1	1	1	1
LOW. PRESS. SWITCH	ROBERT SHAW	MG50-1022	1	1	1	1	1	1	1	1	1	1
BLOWER	LAU	10 X 8	1	1	1	1	1	1	1	1	1	1
BLOWER	LAU	12 X 9	1	1	1	1	1	1	1	1	1	1
BLOWER	LAU	15 X 9	-	-	-	-	-	-	-	-	-	-
BLOWER	LAU	15 X 15	-	-	-	-	-	-	-	-	-	-
PULLEY BLOWER	BROWNING	AK-64H	2	2	2	2	2	2	2	2	2	2
PULLEY BLOWER	BROWNING	AK-74H	-	-	-	-	-	-	-	-	-	-
PULLEY BLOWER	BROWNING	AK-84H	-	-	-	-	-	-	-	-	-	-
PULLEY BLOWER	BROWNING	AK-94H	-	-	-	-	-	-	-	-	-	-
PULLEY MOTOR	BROWNING	IVL-44	2	2	1	1	2	2	1	1	2	2
PULLEY MOTOR	BROWNING	IVP-50	-	-	1	1	-	-	1	1	-	-

REPLACEMENT PARTS LIST - MAXI-KOOL UNITS

DESCRIPTION	MAKE	MODEL	2T		3T		4T		5T		8T	
			208	460	208	460	208	460	208	460	208	460
CONTACTOR			5	5	5	5	5	5	5	5	6	6
FUSES	BUSS	FRN-10	9	-	6	-	6	-	6	-	6	-
FUSES	BUSS	FRN-15	3	-	6	-	3	-	3	-	3	-
FUSES	BUSS	FRN-20	3	-	3	-	3	-	3	-	6	-
FUSES	BUSS	FRN-25	-	-	-	-	3	-	-	-	-	-
FUSES	BUSS	FRN-30	-	-	-	-	-	-	3	-	-	-
FUSES	BUSS	FRN-45	-	-	-	-	-	-	-	-	3	-
FUSES	BUSS	KTKR-10	-	15	-	6	-	6	-	6	-	6
FUSES	BUSS	KTKR-15	-	-	-	9	-	9	-	6	-	9
FUSES	BUSS	KTKR-20	-	-	-	-	-	-	-	3	-	-
FUSES	BUSS	KTKR-30	-	-	-	-	-	-	-	-	-	3
TRANSFORMER	PUC	75VA	1	1	1	1	1	1	1	1	2	2
THERMOSTAT	PENN	A-28	1	1	1	1	1	1	1	1	1	1
HUMIDISTAT	RANCO	J-7101	2	2	2	2	2	2	2	2	2	2
LIGHTS	JEMCO		6	6	6	6	6	6	6	6	6	6
FILTER	FARR	20X20X2	1	1	1	1	-	-	-	-	-	-
FILTER	FARR	25X20X2	-	-	-	-	1	1	1	1	1	1
FILTER	FARR	16X25X2	-	-	-	-	-	-	-	-	2	2
EXPANSION VALVE	SPORLAN	SVE-2GA	2	2	1	1	-	-	-	-	-	-
EXPANSION VALVE	SPORLAN	SVE-3GA	-	-	1	1	1	1	-	-	-	-
EXPANSION VALVE	SPORLAN	SVE-4GA	-	-	-	-	1	1	1	1	-	-
EXPANSION VALVE	SPORLAN	SVE-5GA	-	-	-	-	-	-	1	1	-	-
EXPANSION VALVE	SPORLAN	SVE-8GA	-	-	-	-	-	-	-	-	2	2
DRYER	SPORLAN		1	1	1	1	1	1	1	1	1	1
REVERSING VALVE	ROBERT SHAW	V6-314080	1	1	1	1	1	1	1	1	1	1
SOLENOID COIL	ROBERT SHAW	L30-124801	1	1	1	1	1	1	1	1	1	1
DEFROST CONTROL	ROBERT SHAW	DT2-100-200	1	1	1	1	1	1	1	1	1	1

STANDARD ONE YEAR WARRANTY

We warrant this Compu-Aire, Inc. computer room unit to be free from defects in material and workmanship; our obligation being limited to repairing or replacing at our factory any part (except as noted below) within one year from the date of start-up and not exceeding _____ months from the date of shipment to the original purchaser. Parts to be returned to us PREPAID.

This warranty is effective only if the unit has been installed in accordance with our instructions and connected to proper and adequate electric, water and drain services, correctly dehydrated and placed into operation by a competent service representative.

Fan motor warranty is covered by original manufacturer's warranty and any repair or replacement should be made by the local authorized service facility as listed in the telephone book.

Maintenance and service such as replacing filters, parts, cleaning, lubrication, calibration and adjusting are NOT INCLUDED in this warranty.

Replacement or repair parts shall be shipped from the factory prepaid and invoiced for the full amount. Upon receipt of warranted parts and which our inspection discloses the parts are defective, and show no signs of misuse, alterations, or abuse, full credit will be issued.

Compu-Aire, Inc. does not assume any responsibility for labor expense for changing defective parts or replacement of any refrigerant or other cooling medium such as glycol etc.

All parts and goods are thoroughly inspected and packed to meet the requirements of railroad freight classifications bureaus, and under standard shippers risk, when they leave

our factory. SHOULD GOODS ARRIVE DAMAGED, call the agents attention to damage and have same noted on freight bill. For concealed damage, demand immediate inspection from agent of the shipping company and insist on a notation being made on freight bill.

EXTENDED 4-YEAR WARRANTY (OPTIONAL)

EXTENDED 4-YEAR WARRANTY ON COMPRESSORS ONLY. During the second through fourth years after the start of the ONE-YEAR WARRANTY, COMPU-AIRE, further warrants the compressors against defects in material or workmanship under normal use and maintenance. New or remanufactured compressor or COMPU-AIRE option, will be provided under the same conditions as stated in the ONE-YEAR WARRANTY.

THIS WARRANTY DOES NOT INCLUDE LABOR OR OTHER COSTS incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts or replacement parts or complete unit. Such costs may be covered by a separate warranty provided by the installer

Purchaser-User _____

Model Number _____ Serial Number _____

Expiration Date _____



COMPU-AIRE, Inc.
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(562) 945-8971