INSTALLATION, OPERATION AND MAINTENANCE MANUAL

WMH HIGH-EFFICIENCY WATER SOURCE HEAT PUMP COMPLETE REPLACEMENT CHASSIS

for McQuay, Singer, or Climate Control WM Series Water Source

STRAIGHT COOL/HEAT PUMP
Nominal Capacities: 9,000,
12,000 & 15,000 Btuh

RETROAIRE
The Right Fit for Comfort

WMH

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An ECR International Brand
An ISO 9001-2000 Certified Company

P/N# 240004347, Rev 1.2 [02/05]

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Shipping Damage MUST be Reported to the Carrier IMMEDIATELY!!!
Examine the exterior. Remove cover and examine compressor and piping for signs of damage.

This manual is intended as an aid to qualified service personnel for proper installation, operation, and maintenance of the RetroAire WMH Console Water Source Heat Pump (WSHP) Packaged Terminal Air Conditioner (PTAC). Read these instructions thoroughly and carefully before attempting installation or operation. Failure to follow these instructions may result in improper installation, operation, service, or maintenance, possibly resulting in fire, electrical shock, property damage, personal injury, or death.

TO THE INSTALLER

(1) Retain this manual and warranty for future reference.

(2) Before leaving the premises, review this manual to be sure the unit has been installed correctly and run the unit for one complete cycle to make sure it functions properly.

To obtain technical service or warranty assistance during or after the installation of this unit, contact your local representative. Visit our website **www.retroaire.com** for a local representative listing. For further assistance call 1-800-228-9364.

When calling for assistance, please have the following information ready:

- Model Number_____
- Serial Number_____
- Date of installation_____

Recognize this symbol as an indication of important safety information

⚠ WARNING ⚠

Completely read all instructions prior to assembling, installing, operating, or repairing this product. Inspect all parts for damage prior to installation and start-up. The RetroAire WMH PTAC must be installed ONLY by qualified installation personnel.

SAFETY INSTRUCTIONS

- Read all instructions before using the RetroAire WMH PTAC. Install or locate this unit only in accordance with these instructions. Use this unit only for its intended use as described in this manual.
- Check the rating plate on the RetroAire WMH PTAC before installation to make certain the voltage shown is the same as the electric supply to the unit.
- The RetroAire WMH PTAC must be connected only to a properly grounded electrical supply. Do not fail to properly ground this unit.
- Turn off the electrical supply before servicing the RetroAire WMH PTAC.
- Do not use the RetroAire WMH PTAC if it has damaged wiring, is not working properly, or has been damaged or dropped.

[Save These Instrucions]

⚠ DANGER ⚠

The RetroAire PTAC must:

- **Be connected to a properly grounded electrical supply with the proper voltage as stated on the rating plate.**
- **Have proper over current protection (i.e. time- delay fuse/HACR-Breaker) as listed on the Rating Plate.**

Failure to follow these instructions can result in a fire, explosion, or electrical shock causing property damage, personal injury, or death.

MODIFICATION AND TAMPERING

⚠ DANGER ⚠

Tampering with the RetroAire WMH PTAC is dangerous and may result in serious injury or death. Tampering voids all warranties. Do not attempt to modify or change this unit in any way.

GENERAL INFORMATION

RetroAire Console Water Source Heat Pump (WSHP) units are decentralized room units designed for field connection to a closed-circuit piping loop within the building. Models with 9,000-15,000 nominal Btuh cooling ratings are offered. These units are typically installed in perimeter zones usually on an outside wall, but can be installed on inside walls as well. Supply air is discharged into the conditioned space through discharge grilles located on the top of the unit.

DO NOT apply RetroAire console water source heat pumps in locations subject to temperature extremes (i.e.. attics, garages, rooftops etc.) The temperature, humidity and corrosive conditions which are often present under these circumstances can greatly inhibit performance, reliability and service life.

Unit electrical data is provided in the specification sheet for each model. These can be obtained from your local representative or the RetroAire factory.

Be sure to inspect the shipping package of each console WSHP unit as it is received at the job site and before signing the freight bill. Verify that all items have been received and that there is no visible damage. Note any shortage or damage on all copies of the freight bill. In the event of damage or shortage, remember the purchaser is responsible for filing the necessary claims with the carrier.

The unit's wire diagram is attached to the unit. Read this manual to become familiar with the unit and its operation. If the equipment is not needed for immediate installation upon arrival at the job site, it should be left in the shipping carton vinyl wrap, or an equivalent protective covering. Open ends of piping stored on the job site must be capped to keep dirt and insects from getting into the piping. If stacking is necessary, do not stack more than 3 high with pallets between each layer of units.

Examine each pipe, fitting and valve and remove any dirt before installation.

NOTE: *Keep all components clean. Double check all piping and components for debris and dirt before installation.*

PRODUCT DESCRIPTION

The RetroAire WMH high-efficiency Water Source Heat Pump was designed to specifically replace the climate control or mcquay/singer wm series water source consoles. The WMH may also replace water source heat pumps that were installed in custom cabinetry with dimensions equal to or larger than the WMH (consult factory for details).

The WMH EER ratings of 11.7 to 13.0 and COP ratings of 4.1 to 4.36 exceed the rating for the old units.

The WMH chassis is a complete package with compressor; heat pump with reversing valve; capillary tube metering; and all refrigeration components. Safety controls include overload protection and high/low pressure controls.

Air Systems:
- Fan is forward curve type, directly mounted to the motor shaft
- Motor is PSC type with overheat protection
- Air stream surfaces are insulated with 1/4" fiberglass
- Filter is permanent, washable aluminum mesh, accessible without tools

High Efficiency Heat Exchanger- Evaporator coil is seamless, copper tubing arranged in staggered configuration with enhanced tubes, and aluminum fins tested to 400 PSIG. The tubes are mechanically expanded for secure bonding to fin shoulders.

Refrigeration Circuit:
- High Efficiency Rotary compressor with 5 year warranty
- Condenser coil is copper inner tube with steel outer tube design. Water flow is through the copper inner tube and heat is exchanged with a counter flow of refrigerant through the outer shell.

Factory Installed Controls & Components:
- High Pressure control
- Low temperature/low water flow cut-out switch
- Compressor lock-out relay
- Unit-mounted controls
- Two-speed fan
- Four-way reversing valve with solenoid (energized for cooling mode) activated by line voltage

Optional Accessories:
- Remote thermostat controls (contact factory for more information.)
- Unit mount ACO with fan cycle switch
- Electric heat (2-3kw output only)

Rating & Testing- Units are tested and rated in accordance with ARI standards 320 and UL 484. Due to RetroAire's ongoing development programs, design and specifications may change without notice.

PRE-INSTALLATION

Use the following steps to prepare a RetroAire chassis for installation.

1. Compare the electrical data on the unit rating plate with ordering and shipping information to verify that the correct unit has been shipped.

2. Keep the chassis covered until installation is complete, and all plastering, painting, etc. is finished.

3. Tubing must be free of kinks or dents, it must not touch other unit components.

4. All electrical connections should be clean and tight at the terminals. The compressor of all RetroAire heat pumps are grommet mounted, there are no hold-down bolts to remove.

INSTALLATION

1. Switch off or remove power to the unit. If the old unit is cord connected, remove the plug from receptacle. If the unit is hard wired, disconnect it from the junction box.

2. Close the hand operated shut off water valves on both supply and return piping.

3. Disconnect the hose connection (if not hard piped) from the supply and return connection to the unit.

SUGGESTION: ***Use a small pan or bucket to drain any water in the hoses or unit into.***

4. Disconnect the condensate drain hose.

5. Remove any screws holding the old chassis to sub-base or wall.

6. Lift the old chassis out of the way. Clean any dirt or debris from under where the old chassis stood.

7. Put the new chassis in the same place where the old chassis stood, and secure it to the subbase or wall as the older unit was secured.

8. Pipe the new chassis with the same hoses (check the hose for cracks and/or brittleness, replace with new hoses if any damage is found). If the unit is to be hard piped, there should be union between the unit and the hand shut off valve for service or removal of the unit. Connect the condensate pipe.

9. Connect power wiring to the J-box. (See wiring diagram on unit). Wiring must be made in accordance with NEC and local codes.

10. Open water hand valves. Bleed air from the water lines with the air vent (if used) or by uncoupling the return water line and let the air be forced out of the heat exchanger in chassis. When a steady flow of water is visible in the bucket , shut off the hand valve and reconnect the hose. If the water appears dirty the entire water system should be flushed with the proper cleaners to obtain a PH value of 7 or 8. Exercise caution if any sort of glycol (antifreeze) is being used when cleaning the system. Be careful not to let this fluid get on any carpeting etc. It is best to use trained personnel to do this type of work.

ELECTRICAL WIRING

WARNING: ***Avoid possible injury/death from electrical shock. Shut power supply switch off and secure in the "OFF" position.***

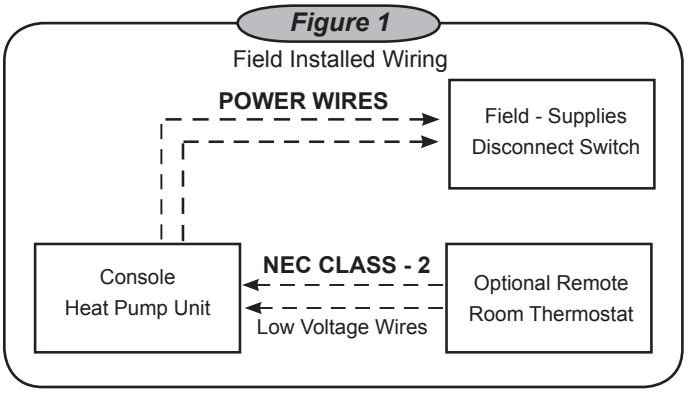
If the wiring for the old unit shows signs of wear or was improperly installed it may be necessary to re-work the electrical wiring to the replacement chassis.

CAUTION: ***Use only copper conductors for field installed electrical wiring.***

All field-installed wiring including the electrical ground must comply with the National Electric Code, as well as applicable local codes. In addition, all low voltage field wiring must conform to the Class II temperature limitations described in the NEC. Refer to ***Figure 1*** for a schematic of the field connections which must be installed by installing (electrical) contractor.

Consult the unit wiring diagram on the side of the unit control box. Unit electrical data is provided in the spec. sheets for the unit.

Figure 1



NOTE: ***Use flexible conduit at the unit connections to minimize vibration and sound transmission to the structure. When wiring is complete, check all unit electrical connections to the line and low voltage terminal boards. Make certain they are correct and secure.***

All customer supplied wiring to be copper only and must conform to NEC and local electrical codes. Wiring showed with dashed lines are to be field supplied and installed.

INSTALLATION OF OPTIONAL WALL MOUNTED THERMOSTAT

RetroAire console WSHP units have standard unit mounted thermostats in manual change-over (MCO) configuration. No external field installed low-voltage wiring is required.

When specified, the console unit is equipped with a 24-Volt control circuit which is then field wired to a remote thermostat. The low-voltage wiring between the unit and the wall mounted thermostat must be made in compliance with the applicable electrical codes (i.e. NEC and local codes) and completed before the unit is installed. Use of four-wire, color coded, low-voltage cable is recommended.

Recommended wire size and lengths for installing the thermostat are provided in ***Table #1***. The total resistance of these low-voltage wires must not exceed 1 ohm. Any resistance in excess of 1 ohm may cause a malfunction because of voltage drop.

Recommended Wire Size ***Table #1***

Wire Size	Maximum Wire Length
18-Gauge	75 Feet
16-Gauge	125 Feet
14-Gauge	200 Feet

START-UP

Use the procedure outlined below to initiate proper unit start up.

1. Adjust all hand water valves to the full open position, and turn on the power to the units. (If when taking the old unit out you marked the position of the hand water valve handle put it back to that position rather than full open.)

WARNING: Use caution when working with energized equipment. High voltage is present in some areas of the electrical panels when the power is OFF.

2. Operate each unit in the cooling cycle first. Set thermostat temperature lower than the room temperature and depress the cool button. The entering water temperature (EWT) should be at least 60° F. for start up. The unit will start discharging cool air almost instantly. After the unit has been running about 5 minutes check the temperature of the EWT and the leaving water temperature (LWT). The difference should show a higher LWT by about 10-12°. If you find you have this difference you also have the correct water flow. If the difference is less then 10-12° you have too much water flowing through the unit and if the difference is higher then you don't have enough water flowing through the unit. You will have to adjust the hand water valve to get the temperature difference needed.

Unit Mount ACO (Automatic Change-Over) with Fan Cycle Switch (Optional): This option allows the operator of the CWC/CWH/CMH to have the evaporator fan cycle or run continuously. With the switch in the cycling position the evaporator fan will only run when the unit is calling for heat or cooling. When the switch is in the ***"CONSTANT"*** position, the evaporator fan will run continuously unless the unit is physically turned off.

NOTE: *Three factors determine the operating limits of RetroAire heat pump units:*

1. Return air temperature
2. Water temperature
3. Ambient temperature

Whenever any one of these factors is at a minimum or maximum level, the other two factors must be at normal levels to ensure proper unit operation.

(1) Minimum air and water conditions can only be used at ARI flow conditions. (2) Only one max. or min. value maybe used, all other parameters must be at normal conditions ***(Table #2)***.

WMH Operating Limits		Table #2
Air & Water Limits	**Cooling**	**Heating**
Min. Ambient Air	50°F	50°F
Rated Ambient Air	80°F	70°F
Max. Ambient Air	100°F	85°F
Mim. EAT	50°F	70°F
Rated EAT DB/WB	80/67°F	70°F
Max. EAT DB/WB	100/83°F	80°F
Water Limits	**Cooling**	**Heating**
Min. EWT	60°F	60°F
Normal EWT	85°F	70°F
Max. EWT	95°F	90°F

STARTING CONDITIONS

Unit will start and operate in an ambient of 50°F with entering air at 50°F with entering water temperature at 60°F with both the air and water at the flow rates used in the ARI Standard 320/86 rating test, for initial start up in winter. This is for start up only not long time running.

Check the heating operation of the unit, turn the thermostat to slightly above room temperature and depress the heat button. The compressor and fan will operate. After about 5 minutes of operation check the water temperature of the EWT & LWT. There should be a difference of 6°F with the LWT less than the EWT. If the difference is approx. 6°F you have the correct water flow. If the difference is less than approx. 6°F there is excessive water flow. If the difference is more than approx. 6°F there is not enough water flow. Adjust the hand water valves until the EWT is about 6°F higher than the LWT.

If the unit fails to operate, check the following:

a. Check the voltage and current. It should be in accordance with the electrical specifications on the unit rating plate.

b. Look for wiring errors. Check for loose terminals or wire nuts where wire connections have been made on both the line and low-voltage terminal boards.

c. Check for water leaks around hose swivel joints or if hard piped check all joints. After the unit is running check for leaks around the condensate drain hose and connection.

Determine whether the fan operates during heating and cooling modes. If these checks fail to reveal a problem and the unit will not operate, contact a trained service technician for proper diagnosis or call the factory service department for assistance.

STARTING CONDITIONS

Perform the maintenance procedures outlined below at the intervals indicated.

- Inspect/clean filters ***every three months***.
- Avoid fouled machinery and extensive unit clean-up, do not operate units without filters in place or use as a temporary heat source during renovation.
- To remove the filter from the Console WSHP unit, slide the filter out of its frame located in the return air opening at the bottom front of the unit. When installing the filter be sure to use the slide in rails of the filter frame to guide the filter into the proper position.

FILTER CLEANING

Remove excess dirt and lint by rapping dirty side down or by vacuuming. Clean filter by flushing with a stream of water from both exhaust and intake side. If filter is extremely dirty or linted, fill container with warm water and mild detergent and ”swish” filter in water. Rinse clean and allow to dry before re-coating with RP Super Filter Coat.

- **Check condensate drain pan for algae growth.** When algae growth is apparent, consult a water treatment specialist for proper chemical treatment. Apply algaecide every 3 months to eliminate algae problems in most instances.

- **All RetroAire heat pumps are permanently lubricated when shipped from the factory.**

- **Visually Inspect The Unit at Least Once Each Year.** When inspecting each Console WSHP unit, give special attention to the hose assemblies, note any signs of deterioration or cracking and repair any leaks immediately.

- **Check the compressor and fan motor amperage annually.** Amperage draw on this equipment should not exceed normal full load or rated load amps by more than 10% of the values noted on the unit nameplate. Record the values obtained in this check in a log book so that a deteriorating condition in a fan motor or compressor can be detected prior to component failure.

- **Clean the air heat exchanger at least once a year or more frequently if the unit is located in a “dirty” environment to help maintain proper operating efficiency.**

SAFETY CONTROL RESET

RetroAire Console WSHP units are equipped with high pressure and low temperature cutouts to prevent the machine from operating at abnormal conditions of temperature or water flow. The high pressure control used on RetroAire™ Heat Pumps is designed to close its contacts at 400 psi and automatically open them at 295 psi. The contacts of the low temperature switch open at 50°F and close at 35°F. A lockout relay is electrically linked with these cutouts, and interrupts the heating or cooling operation until the machine is reset manually.

Press first the off button and then the on button to reset the unit in the desired mode of operation. The unit can also be reset by opening and closing the supply power disconnect switch.

Note: ***If the unit must be reset more than twice, check it for a dirty filter, abnormal entering water temperature, inadequate or excessive water flow, and internal malfunctions, then contact a trained service technician.***

RetroAire encourages customers to contact their local representative for assistance. If the local representative is not available you may contact Customer Service at the factory.

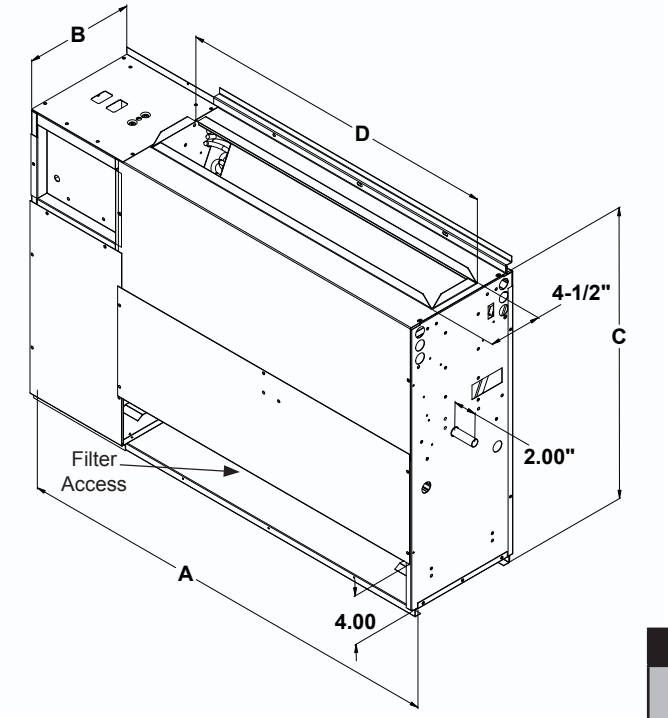
PERFORMANCE DATA

Unit Size	CFM Low/High	Cooling		Heating	
		Btuh	EER	Btuh	COP
9	265/340	10,000	11.7	12,425	4.28
12	350/450	12,250	13.0	15,000	4.36
15	450/550	16,100	12.7	18,900	4.1

WMH DIMENSIONS AND INSTALLATION SPECIFICATIONS

NOTE: EMI products are subject to ongoing development. Products are subject to change without notice

* For more detailed Hydronic Heat performance information check our web sight www.retroaire.com



CONDENSER WATER FLOW		
Unit Size	GPM	P.D. (FT OF HD)
9	2.6	6.1
12	2.8	8.7
15	3.8	12.9
Cooling Cycle Design DT At 10°		

EVAPORATOR SPECIFICATIONS				
Unit Size	Face Ft. ²	Rows Deep	Tube Size	Fins In.
9	1.1	2	3/8”	14
12	1.75	2	5/16”	14
15	2.0	2	3/8”	14

WMH DIMENSIONS				
Unit Size	A	B	C	D
9,000-12,000	37 ¾”	10”	25”	28”
15,000	42 ¾”	12”	25”	33”

HEATING CAPACITY				
Unit Size	Entering Water/Air Temp	Heating Capacity Btuh	Heat Of Absorption Btuh	Power Input Watts
9	70°	12,450	19,550	850
12	70°	15,000	11,600	1,000
15	70°	19,200	14,400	1,350

WMH ELECTRICAL SPECIFICATIONS									
Model	Volts/HZ/Phase	Fan Motor		Compressor		Total AMPS	MCA	Max Fuse	Min Volts
		FLA	HP	RLA	LRA				
9	115/60/1	1.4	0.09	7.4	44	8.8	10.7	15	104
	208/230/60/1	0.6	0.08	3.8	20	4.4	5.4	15	197
	265/60/1	0.67	0.08	3.3	18.6	3.97	4.8	15	240
12	115/60/1	1.4	0.09	9.7	54	11.1	13.5	20	104
	208/230/60/1	0.6	0.08	4.8	26.3	5.4	6.6	15	197
	265/60/1	0.67	0.08	4.2	28	4.87	5.9	15	240
15	208/230/60/1	0.6	0.08	6.4	38	7.0	8.6	15	197
	265/60/1	0.67	0.08	5.4	32	6.07	7.4	15	240

WMH Optional Electric Heat							
Heater No.	Voltage	Watts	Btuh	Amps	Total Heat Amps	MCA	Max Fuse
2	208	1636	5600	7.9	8.5	10.4	15
	230	2000	6900	8.7	9.3	11.5	15
	265	2655	9100	10.0	10.7	13.2	15
3	208	2454	8400	11.8	12.4	15.3	20
	230	3000	10300	13.0	13.6	16.9	20
	265	3983	13600	15.0	15.7	19.5	20

WMC/WMH 12-15 Only

RETROAIRE SYSTEM START-UP/INSPECTION SHEET

Installing Contractor: *Use this form to throughly check out the system and units before and during start-up*

To assist in troubleshooting and minimize costly unit and system failure, complete the following system checks before putting the product into full operation. Carefully record all data for future reference.

Loop Water Circuit

❑ Cleaning/Flushing Complete per Specification

Date: _____

Company: _____

Chemical Treatment per Specification

Panel Type:_____

Checked for proper operation of:

❑ High Temperature Alarm
❑ Low Temperature Alarm
❑ No Flow Alarm
❑ Pump Sequencing Device
❑ Cooling Tower
❑ Boiler

Boiler type:_____

Boiler Model No: _____

❑ Operating Control Setpoint: _____
(Should be 60 to 70 F)

❑ Hi-limit Cutout Setpoint: _____
(Should be 80 F)

Steps of Heating Checked in Sequence

Checked line Current to Each Heater Element (Electric Only)

Job Location _____

Installing Contractor_____

Building Maintenance Mgr_____

Engineer _____

Heat Rejector

❑ Closed-loop Cooling Tower

Tower model No. _____

❑ Full-loop water flow through tower

Checked for proper operation of:

❑ Closure Dampers
❑ Spray Pump
❑ Fan Motors
❑ Sump Float Valve
❑ Heater Tape (on Exposed Piping)
❑ Exposed piping property insulated
❑ Open Tower w/Heat Exchanger

Tower Make/Model No. _____

Heat Exch Model No._____

❑ Tower Operates Properly
❑ Loop Water Inlet Temp _____ F
❑ Loop Water Outlet Temp_____ F
❑ Lower Water Inlet Temp _____ F
❑ Lower Water Outlet Temp_____ F
❑ Tower Loop Pumps Quantity _____
❑ Automatic Sequencing
❑ Alarms

System Make-Up Water

❑ Automatic
❑ Manual
❑ Chemically Treated

Make-Up Air System

❑ Installation per Specification

SYSTEM MAIN CIRCULATING PUMPS

Pump Make/Model No. _____

Quality _____

❑ Automatic Pump Sequencing

❑ No Flow Alarm

❑ Discharge Pressure _____ psig

❑ Suction Pressure _____psig

❑ Flow Rate: _____psig

Vibration Isolation

❑ From Floor
❑ From Piping System

System Piping

Piping Materials: _____

❑ Thermometer/Aquastats Installed in Loop
❑ Correct Level in Expansion Tank

Air Vents

Installed at Proper Point in System

Complete this Inspection for each Unit:

Unit Location _____

Unit Model No. _____

Unit Serial No. _____

❑ Clean Filter

❑ Clean Drain Pan

Unit Started in:

❑ Heating Mode

❑ Cooling Mode

❑ Entering Air Temp _____F

❑ Leaving Air Temp _____F

❑ Entering Water Temp _____F

❑ Leaving Water Temp_____F

❑ Volts (Under Load): _____V

❑ Fan Amps _____

❑ Compressor Amps _____

Comments _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

RetroAire Water Source Heat Pump Installation Checklist:

Job Name_____

Sales Order No_____

Sales Engineer_____

Sales Office_____

Telephone_____

Essential Items Checkout

❑ Voltage:_____

❑ System Water pH:_____

❑ Loop Temp Cooling Tower

❑ Water Flow Rate to Heat Pump(s) Balanced

❑ Standby Pump Installed

❑ System Controls Functioning Property

Job Location_____

Installing Contractor_____

Building Maintenance Mgr._____

❑ Outdoor Portion of Water System Protected from Freeze-up

❑ Filters Clean

❑ Condensate Traps Installed

❑ Other Conditions Found.

_____

_____

_____

_____

_____

_____

_____

_____

_____

ALL PRODUCT LIMITED WARRANTY

Enviromaster International Corporation LLC (EMI) warrants to the purchaser/owner, that the EMI products will be free from defects in material and workmanship under the normal use and maintenance for a period of twelve months for all components, and (60) months on unit compressors from date of the original installation or 15 months for all components and 63 months on unit compressors from the date of original sale whichever comes first.

WHAT WE WILL COVER

EMI will replace any defective part returned to EMI's approved service organization with a new or rebuilt part at no charge. The replacement part assumes that unused portion of this warranty.

WHAT WE DON'T COVER

THIS WARRANTY DOES NOT INCLUDE LABOR or other costs incurred for repairing, removing, installing, shipping, servicing, or handling of either defective or replacement parts.

EMI IS NOT RESPONSIBLE FOR

- Normal maintenance
- Damage or repairs required as a consequence of faulty installation or application by others.
- Failure to start due to voltage conditions, blown fuses, open circuit breakers, or other damages due to the inadequacy or interruption of electrical service.
- Damage or repairs needed as a consequence of any misapplication, abuse, improper servicing, unauthorized alteration, or improper operation.
- Damage as a result of floods, winds, fires, lightning, accidents, corrosive atmosphere, or other conditions beyond the control of EMI.
- Parts not supplied or designated by EMI.
- Products installed outside the United States or Canada.
- Any damages to person or property of whatever kind, direct or indirect, special or consequential, whether resulting from use or loss of use of the product.

LIMITATION OF WARRANTIES

This Warranty is exclusive and in lieu of any implied warranties of merchantability and fitness for a particular purpose and all other warranties express or implied. The remedies provided for in this warranty are exclusive and shall constitute the only liabilities on the part of EMI including any statements made by any individual which shall be of no effect.

FOR SERVICE OR REPAIR:

1) Contact the installer _____

2) Call the nearest distributor _____

3) Call or write _____

An ECR International Brand

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