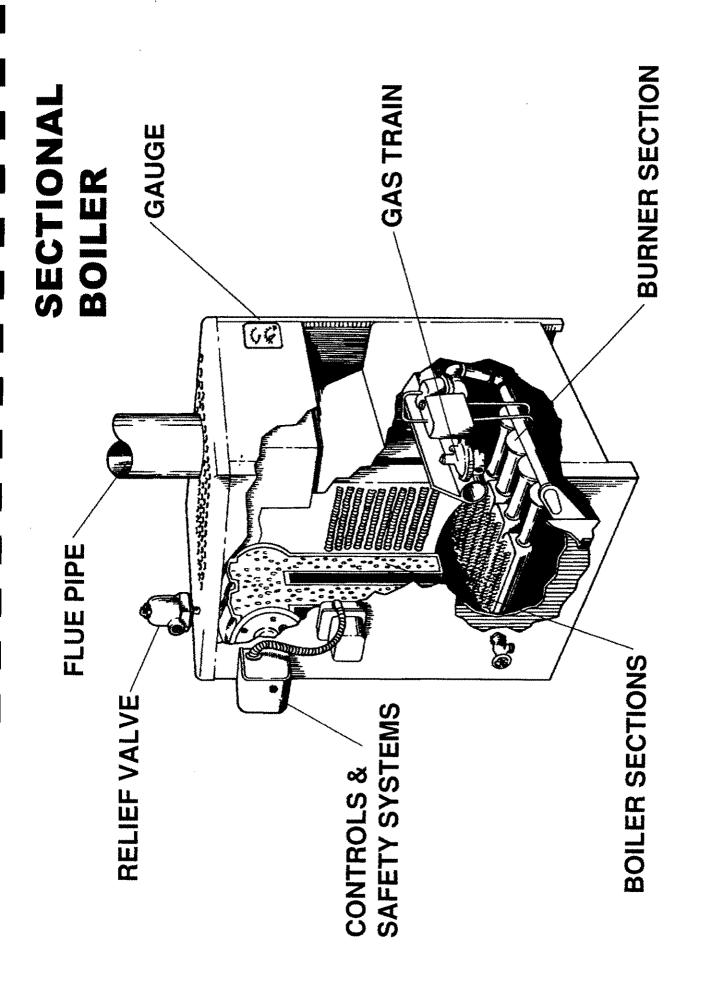
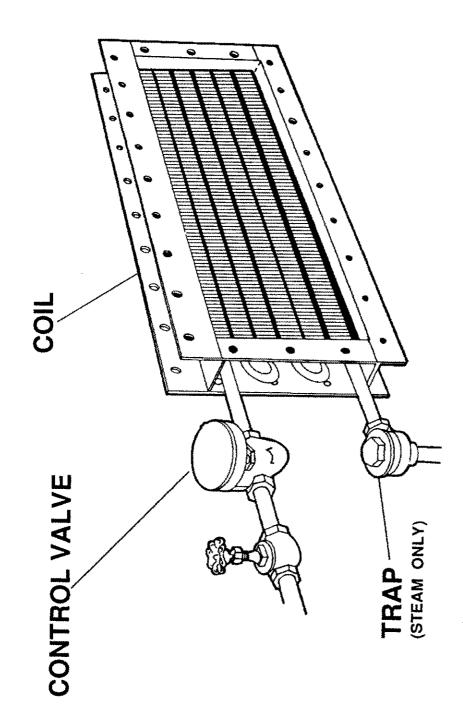


COMPONENT	FUNCTION	MAINTENANCE
HOUSING	 Provides air direction and velocity. 	 Check mounts for security and resiliency. Clean internal dirt accumulation.
FAN IMPELLER	 Circulates air in the system. 	 Inspect and clean. Check for proper fan rotation. Perform vibration test for balance and play in bearings.
BEARINGS	· Supports fan impeller.	 Inspect for wear and excessive heat. Lubricate. Replace if worn.
BELTS & PULLEYS	 Provides linkage from motor to fan impeller. 	 Check pulley for proper alignment. Check pulley for internal wear and security to shaft. Check belts for wear and deterioration. Check belt tension. Check rotation.
MOTOR	 Provides energy source for fan operation. 	 Perform Vibration test. Check motor insulation resistance. Lubricate motor bearings.
MOTOR STARTER	 Controls on/off operation of motor. 	 Inspect starter coils and contacts. Check current and heater size.

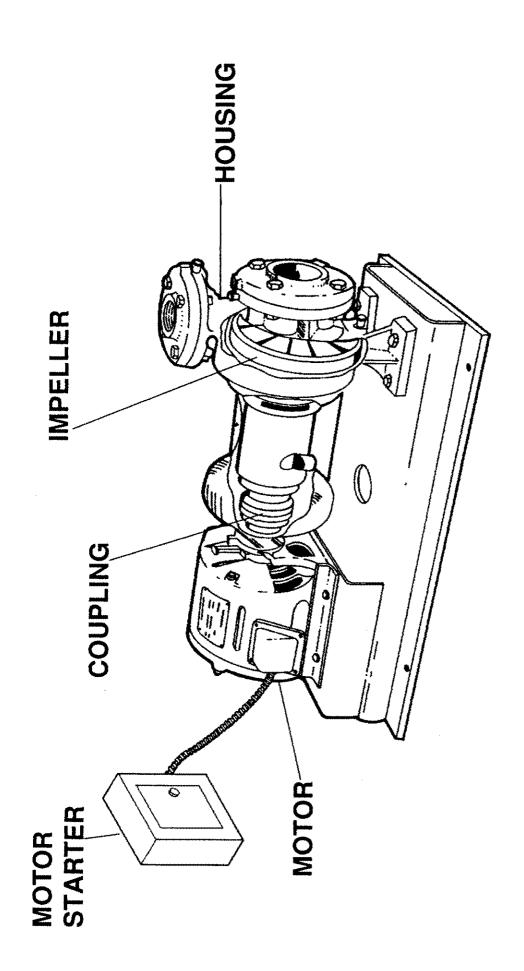


COMPONENT	FUNCTION	MAINTENANCE
FLUE PIPE	 Carries combustion by- products away from burner. 	 Perform flue gas analysis. Inspect for soot and corrosion.
RELIEF VALVE	 Provides overpressure safety if other controls fail. 	 Perform try lever test for proper operation.
CONTROLS & SAFETY LIMITS	 Controls fuel flow to maintain desired medium temperature and safety. 	 Blow down low water fuel cut-off. Perform operational tests and assure proper settings: operating control. bigh temperature/pressure safety limit. flame failure safety. high/low gas pressure cut-off on gas burners.
BOILER SECTIONS	 Holds heating medium (water or steam) during heat transfer. 	 Inspect for leakage and security. Clean fire passes and heating surfaces. Check condition of water, both visually and by chemical test.
BURNER SECTION	 Transfers heat from fuel to heating medium in boller sections. 	 Check flame composition and shape. Perform combustion and draft test. Inspect and clean orifices, passages and no zzles. Adjust fuel/air ratio. Check and clean pilot and igniters.
GAS TRAIN	 Regulates flow of fuel to burner. 	 Check for proper operation of main and safety shutoff valves. Check for leaks and overall security. Assure gas valve shutoff. Check gas pressure regulator setting.
GAUGE	 Indicates medium temperature and pressure. 	 Check for accuracy.

HEATING COIL*



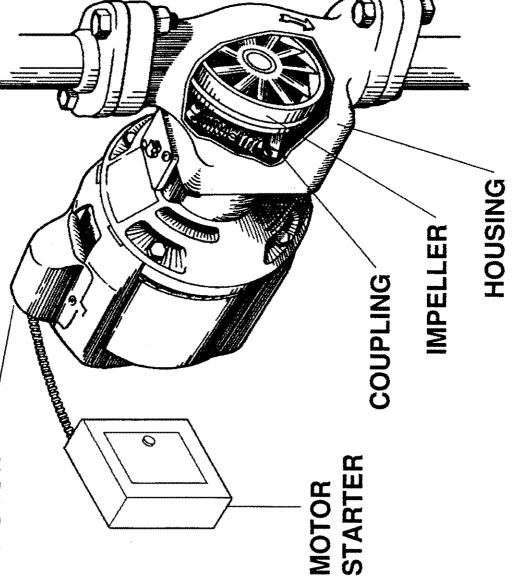
COMPONENT	FUNCTION	MAINTENANCE
TRAP (steam only)	· Provides econômic use of steam.	 Check element, seat, float and needle valve. Clean as required. Repair or replace maintainable items.
CONTROL VALVE	 Controls steam/water flow according to building heat requirements. 	 Check for proper operation, close off and bonnet leakage. Repack, redisc, lubricate and reseat.
COIL	 Provides for heat transfer between air and hot water/steam. 	 Check condition of finned surfaces. Check for blockage. Clean as required. Straighten fins. Check for corrosion and leaks. Inspect casing for rust and security. Check temperature pick-up for efficiency.



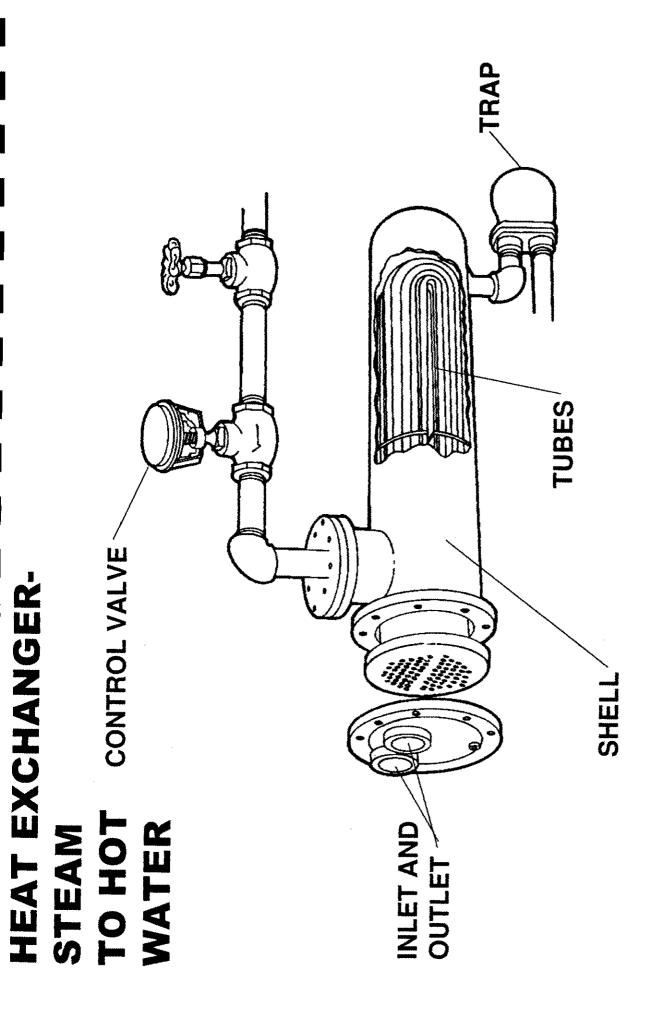
BASE MOUNTED CIRCULATING PUMP

COMPONENT	FUNCTION	MAINTENANCE
MOTOR	· Provides energy for pump operation.	 Perform Vibration test. Lubricate motor bearings.
MOTOR STARTER	 Controls on/off operation of motor. 	 Inspect starter coils and contacts. Check current and heater size.
COUPLING	 Provides linkage between motor and impeller. 	 Check proper alignment and condition. Inspect for wear and shaft security. Replace if worn.
IMPELLER	 Moves medium through piping system. 	• Replace as required.
HOUSING	 Provides physical link with piping system. 	 Check packing and mechanical seals for leakage. Inspect gas kets for leakage and deterioration. Lubricate driven shaft bearings. Perform Vibration test.

Ô 100 Contraction of the second Q MOTOR -IN LINE CIRCULATING PUMP

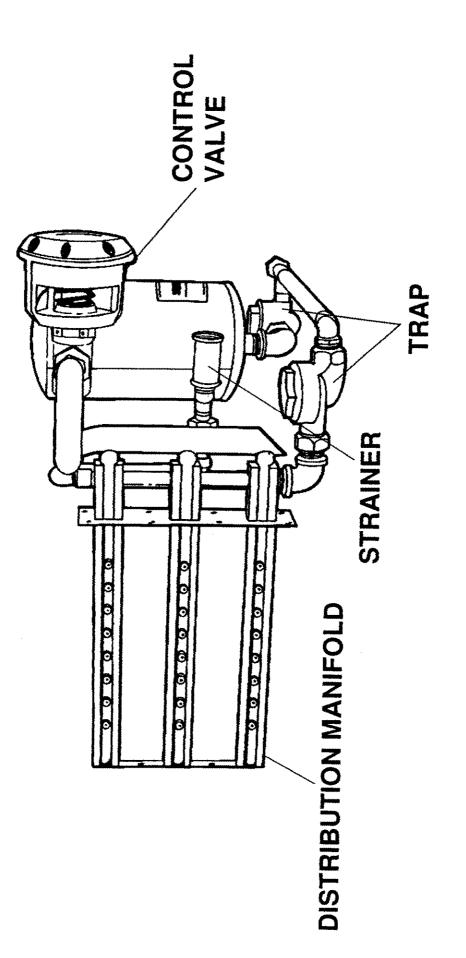


COMPONENT	FUNCTION	MAINTENANCE
MOTOR	 Provides energy for pump. 	 Check motor mount resiliency. Lubricate motor bearings.
MOTOR STARTER	· Controls on/off operation of motor.	 Inspect starter coils and contacts. Check current and heater size.
COUPLING	 Provides physical link between piping system and motor. 	 Check proper alignment and condition. Inspect for wear and shaft security. Replace if worn.
IMPELLER	 Moves medium through piping system. 	 Replace as required.
HOUSING	 Provides linkage between motor and impeller. 	 Check packing and mechanical seals for leakage. Inspect gas kets for leakage and deterioration. Lubricate driven shaft bearings. Perform Vibration test.



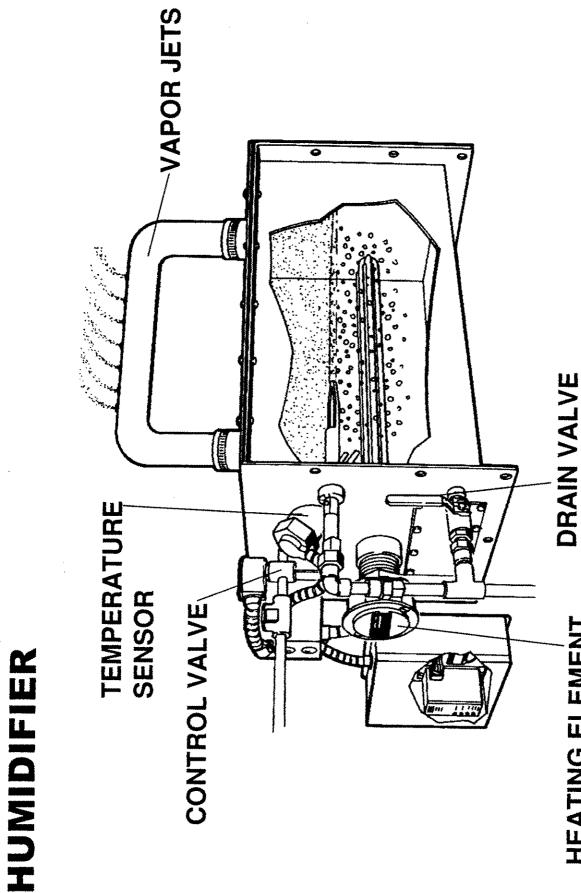
COMPONENT	FUNCTION	MAINTENANCE
INLET AND OUTLET	 Provides connections to the hot water system. 	 Check for leaks. Measure temperature pick-up for efficiency.
CONTROL VALVE	 Modulates steam according to system demands. 	 Check for proper operation, close off and bonnet leakage. Repack, redisc, reseat and lubricate.
TRAP	• Provides economic use of steam.	 Check element, seat, float and needle valve. Clean as required. Repair or replace maintainable items.
TUBES	 Separates steam and hot water and provides heat transfer surface from the steam to the hot water. 	 Inspect for leaks or damage. Clean as required.
SHELL	 Provides housing for tubes and steam. 	 Inspect for damage or leaks. Clean and paint as required.





STRAINER • Removes particles from supply steam. • Pull strainer and clean. • Check for teals. • Check for remote. • Check for remote. • Distributes steam to space. • Check for proper steam flow around manif. • Distributes steam to space. • Check for proper steam flow around manif. • Distributes steam to space. • Check for proper steam flow around manif. • Distributes steam to space. • Check for proper steam flow around manif. • Check for proper steam flow around manif. • Check for proper operation, close-off and according to space demands. • CONTROL VALVE • Modulates humidity to system • Check for proper operation, close-off and bounct leakage. • CONTROL VALVE • Provides economic use of steam. • Check for proper operation, close-off and bounct leakage. • Repact, redisc, reseat and lubricate. • Repact, redisc, reseat and lubricate. • Repact, redisc, reseat and lubricate. • Check flow off or the state. • Repart, redisc, reseat and lubricate. • Check flow off or the state.	COMPONENT	FUNCTION	MAINTENANCE
CBUTION • Distributes steam to space. FOLD • Modulates humidity to system ROL VALVE • Modulates humidity to system ROL VALVE • Provides economic use of steam.	STRAINER	 Removes particles from supply steam. 	 Pull strainer and clean. Check for leaks. Check for corrosion.
ROL VALVE • Modulates humidity to system • according to space demands. • •	DIS TRIBUTION MANIFOLD	• Distributes steam to space.	 Check for propersteam flow around manifold. Check security to duct. Check and clean manifold slots.
 Provides economic use of steam. . 	ONTROL VALVE	 Modulates humidity to system according to space demands. 	 Check for proper operation, close-off and bounet leakage. Repack, redisc, reseat and lubricate.
	RAP	• Provides economic use of steam.	 Check element, seat, float and needle valve. Clean as required. Repair or replace maintainable items.

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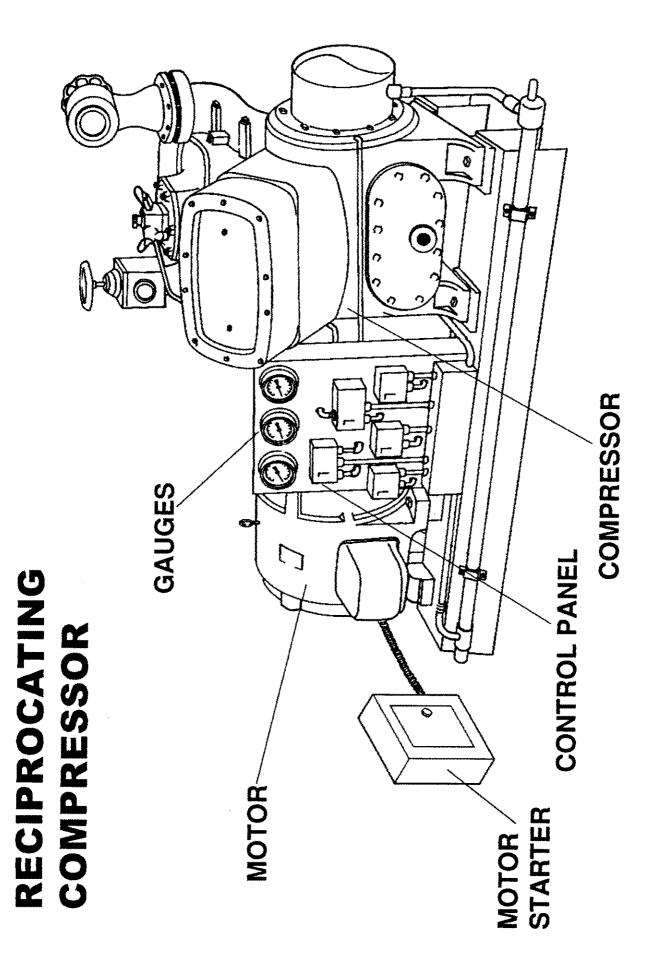


ELECTRIC STEAM

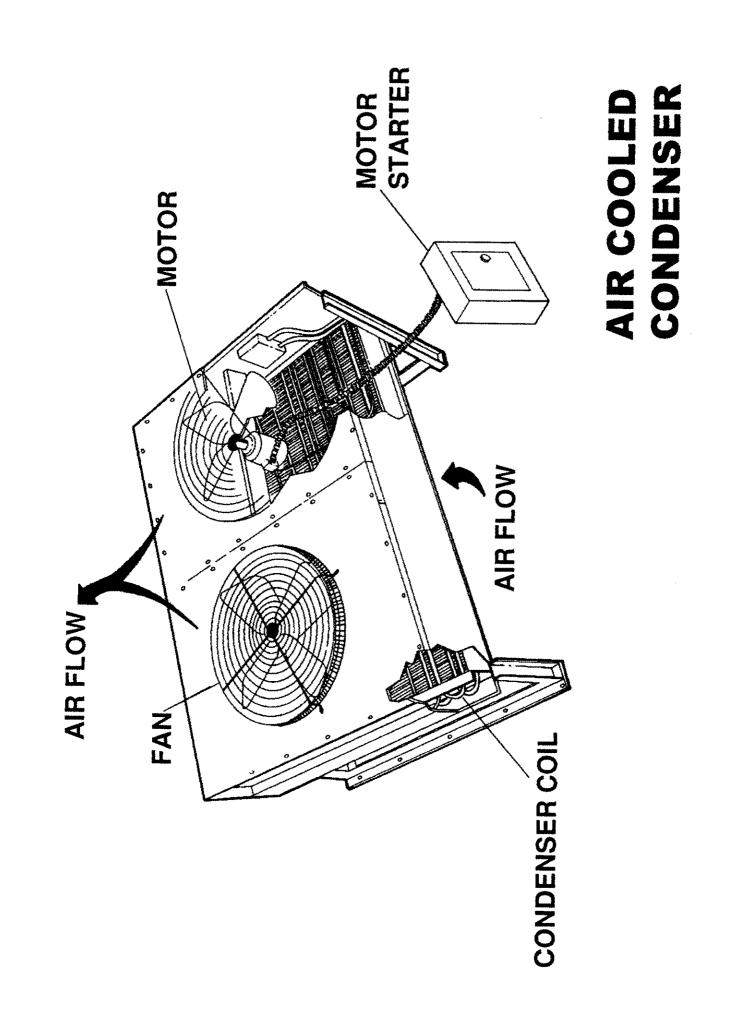
HEATING ELEMENT

COMPONENT	FUNCTION	MAINTENANCE
CONTROL VALVE	 Modulates humidity to system according to space demands. 	 Check for proper operation, close-off and bonnet leakage. Repack, redisc, reseat and lubricate.
TEMPERATURE SENSOR	 Prevents unit from starting cold. 	 Check operation.
HEATING ELEMENT	• Vaporizes water.	• Clean as required.
DRAIN VALVE	 Provides outlet for concentrated water, 	 Check operation.
VAPOR JETS	Provides steam outlet.	• Clean as required.

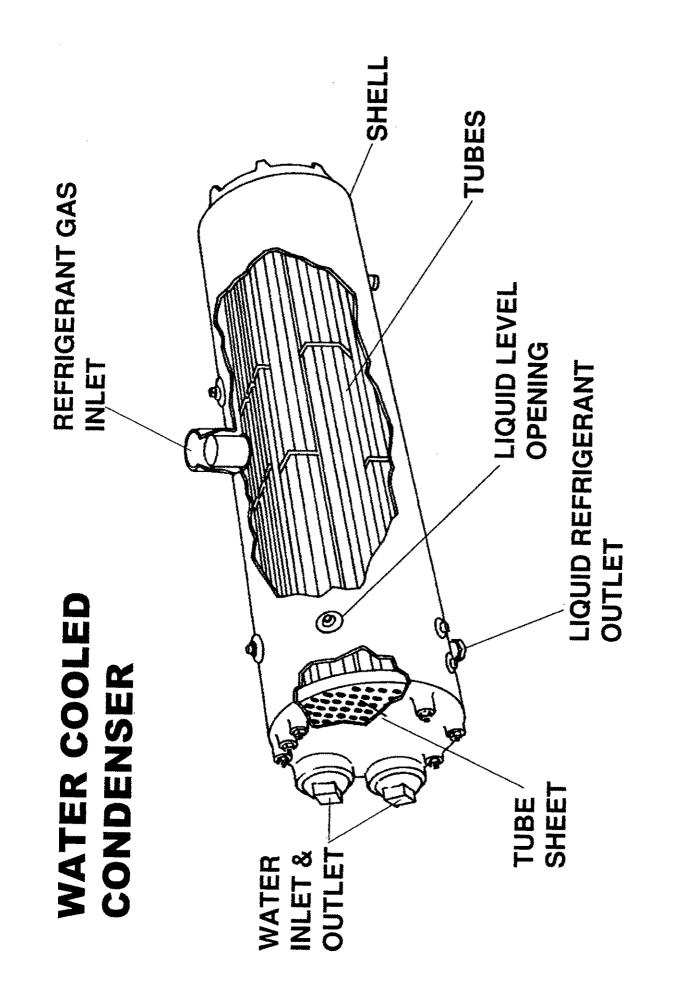
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COMPONENT	FUNCTION	MAINTENANCE
GAUGES	• Provides indication for compressor monitoring.	 Clean, calibrate and check for proper operation. Check for leaks and tighten fittings,
MOTOR	• Provides energy for compressor.	 Lubricate motor bearings. Check motor insulation resistance. Measure vibration. Check condition and alignment of drive section.
MOTOR STARTER	 Controls on/off operation of motor. 	 Check operating current and heater size. Inspect starter coils and contacts.
CONTROL PANEL	 Provides safety interlocks and controls for compressor operation. 	 Sequence test all controls. Calibrate and clean controllers and safety controls. Check setpoint of controls and limits.
COMPRESSOR	• Prepares refrigerant to be condensed and reused at the evaporator.	 Check crankcase heater operation. Check refrigerant charge. Check for refrigerant and oil leaks. Test for efficiency. Therform acid test. Observe bearing and operating surface temperatures. Measure vibration. Sequence cylinder unloaders.

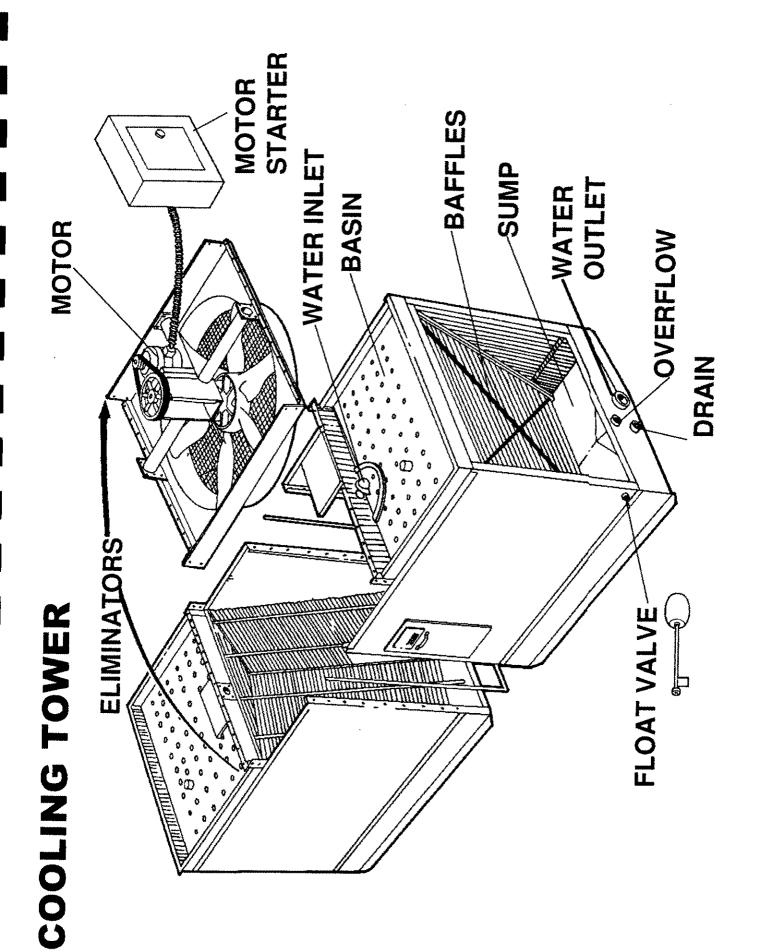


COMPONENT	FUNCTION	MAINTENANCE
FAN	 Circulates air through condenser coll. 	 Check for alignment, balance and security to shaft. Check for corrosion and wear. Check for corrosion and wear. Lubricate bearings and check for end play, excessive bearing temperature and unusual bearing wear. Check condition of drive couplings and belts. Check fan blades and clean dirt accumulation. Check and tighten mounting bolts.
CONDENSER COIL	 Converts refrigerant from high temp./high pressure gas to low temp./high pressure liquid. Provides efficient heat transfer. 	 Clean finned surfaces. Check for damage or leaks. Straighten bent fins. Check pipe clamps for security and vibration. Measure wet bulb temperature at inlet and outlet for efficiency.
MOTOR	 Provídes energy source for fan. 	 Lubricate motor bearings. Examine motor mount resiliency.
MOTOR STARTER	 Controls on/off operation of motor. 	 Inspect starter coils and contacts. Tighten all electrical connections. Check current and heater size.



WATER			
INLET & OUTLET	 Provides connections for condenser water supply and return. 	• • • •	Measure inlet and outlet temperature for efficiency. Inspect and check for leaks, Clean as required. Replace gaskets,
LIQUID LEVEL OPENING	 Provides means to check liquid refrigerant level in condenser. 	•	Inspect and check for leaks.
REFRIGERANT GAS INLET	 Provides refrigerant gas connection. 	•	inspect and check for leaks.
SHELL	 Provides housing for tubes and refrigerant gas. 	• •	lns pect for leaks. Clean as required.
TUBES	 Separates condenser water and refrigerant gas and provides heat transfer surface from refrigerant gas to condenser water. 	• • • •	Open end bell if efficiency is low. Inspect for scale, corrosion and foulants. Brush tubes. Replace gaskets.
LIQUID REFRIGERANT OUTLET	 Provides liquid refrigerant connection. 	•	Inspect and check for leaks.
TUBE SHEET	 Provides support for tubes and separation between refrigerant gas and condenser water. 	*	Inspect and clean as required.

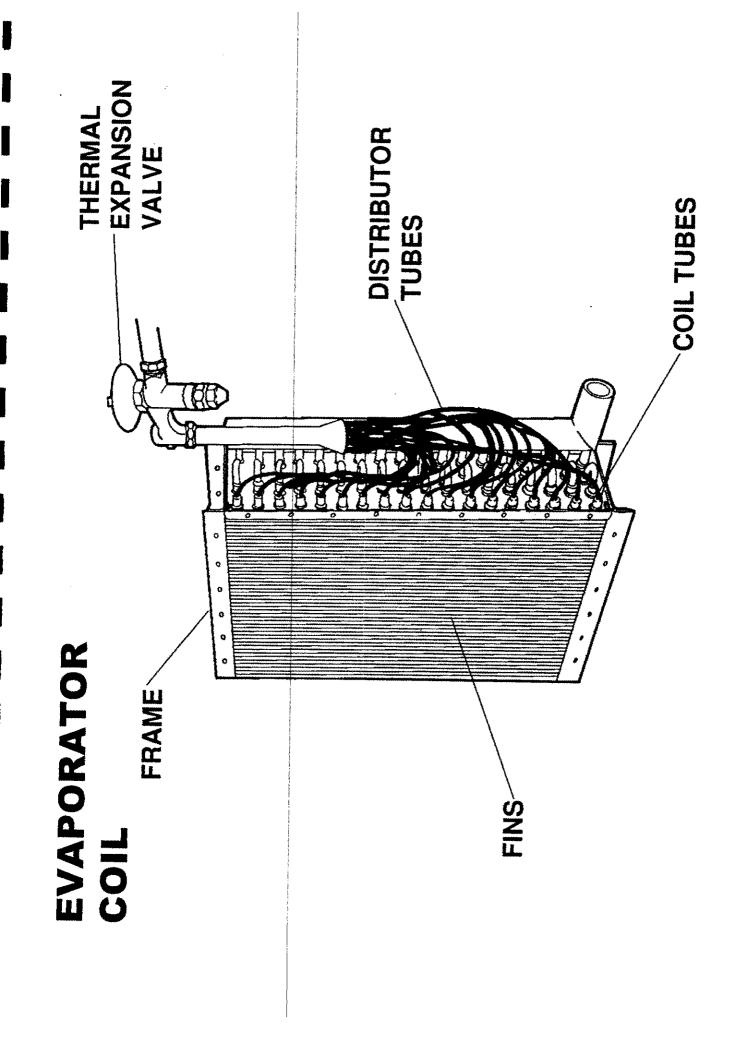
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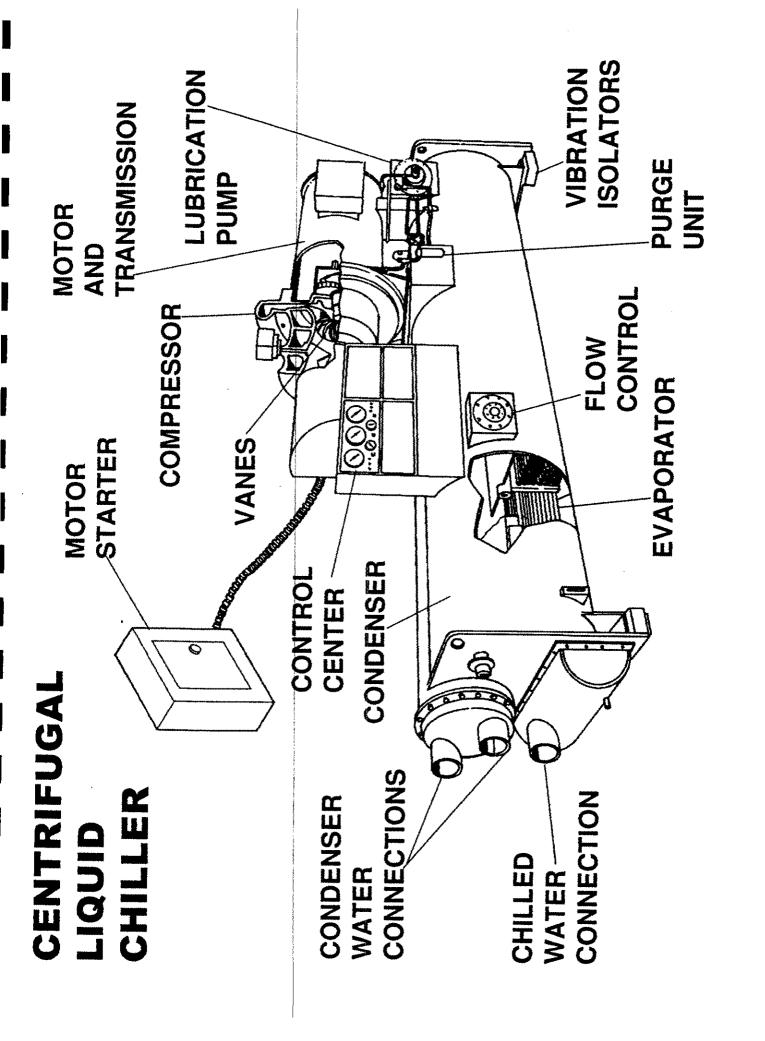
COMPONENT	FUNCTION	MAINTENANCE
MOTOR	 Provides energy source for fan. 	 Perform Vibration test. Lubricate bearings. Examine motor mount resiliency. Check motor insulation resistance.
MOTOR STARTER	 Controls on/off operation of motor. 	 Inspect starter coils and contacts. Tighten all electrical connections. Check operating current, voltage and heater size.
FAN	 Circulates air through to wer. 	 Check blades and clean dirt accumulation. Lubricate bearings and check for end play, excessive bearing temp. and wear. Check condition of drive couplings, pulleys and belts. Adjust as required. Check for corrosion and wear.
ELIMINATORS	 Reduces amount of condenser water being thrown from unit. 	 Inspect and check for corrosion and wear.
BASIN	 Provides distribution area for condenser water flow through to wer. 	 Inspect for corrosion. Clean as required.
BAFFLES	 Provides evaporative cooling surface for condenser water. 	 Inspect for corrosion and wear. Clean or replace as required.
		(continue d)

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COMPONENT	FUNCTION	MAINTENANCE
SUMP	 Provides storage area for tower water. 	 Inspect and clean as required.
WATER OUTLET	 Provides connection for condenser water return. 	 Inspect and check for leaks.
OVERFLOW	 Provides safety outlet for excessive to wer water. 	 Inspect for obstructions. Clean as required.
FLOAT VALVE	 Maintains proper water level in to wer. 	 Inspect for corrosion and wear. Check proper operation and closer off.
DRAIN	 Allows tower to be emptied and cleaned. 	 Inspect for obstructions.
WATER INLET	Provides connection for condenser water supply.	 Inspect and check for leaks,



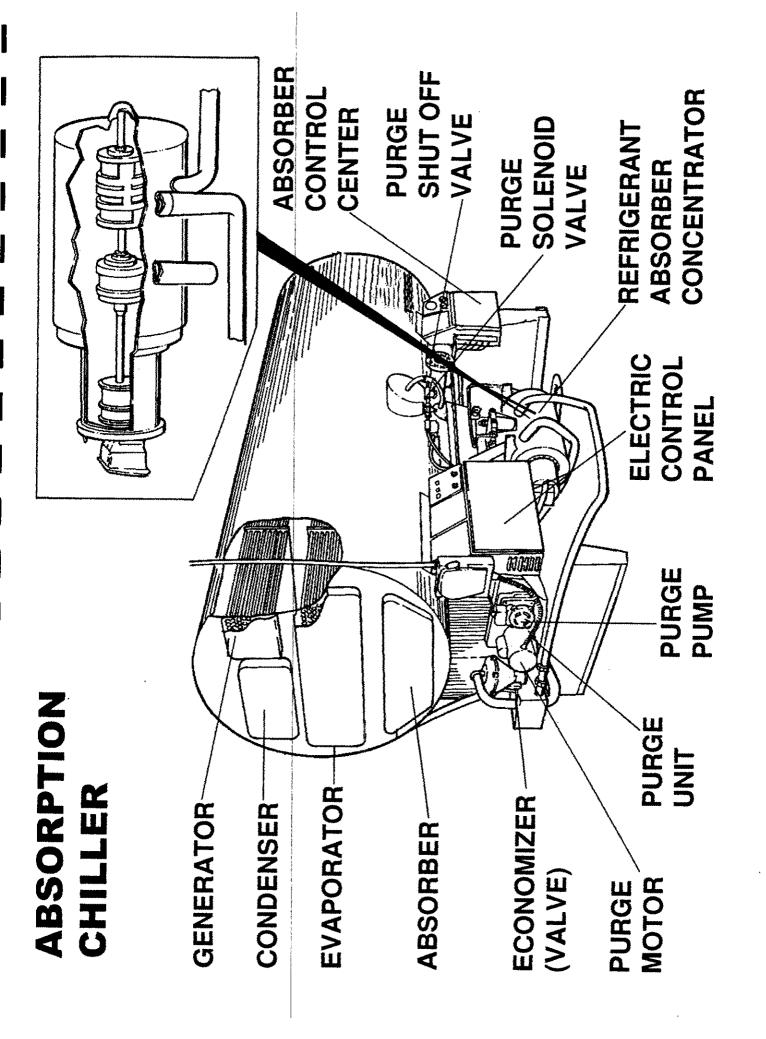
COMPONENT	FUNCTION	MAINTENANCE
THERMAL EXPANSION VALVE	· Regulates liquid refrigerant flow according to load conditions.	 Inspect thermal bulb for security, Check thermal bulb insulation. Check and adjust superheat. Check valve operation.
FRAME	 Holds all tubing and fins. Provides support for mounting. 	 Check for damage, rust, and corrosion. Check for security in duct or system. Clean drain pan. Check condensate drain piping.
FINS	 Extends surface area of coil tubes to provide efficient heat transfer. 	 Straighten fins with coll comb and clean all surfaces as required.
DIS TRIBUTOR TUBES	 Assures even distribution of refrigerant throughout coil. 	 Check for leaks with electronic detector or halide torch.
COIL TUBES	 Provides for heat transfer between refrigerant and air. 	 Check for leaks with electronic detector or halide torch.



COMPONENT	FUNCTION	MAINTENANCE
CONTROL CENTER	 Provides wiring connection point, safety interlocks, controls, and capacity control for compressor operation. 	 Sequence testall controls. Calibrate and clean controls and safety devices. Inspect and clean electrical contacts. Check set point of controls and limits.
MOTOR	 Provides energy for compressor operation. 	 Lubricate motor bearings. Lubricate motor insulation resistance. Check condition and alignment of drive section. Measure vibration. Examine motor mount resiliency.
MOTOR STARTER	• Controls on/off operation of motor.	 Check operating current, voltage and heater size. Inspect starter coils and contacts.
TRANS MISSION	 Provides mechanical link between motor and impeller. 	 Check for proper lubrication.
COMPRESSOR	Prepares refrigerant to be condensed and reused at the evaporator.	 Check refrigerant charge. Check for refrigerant and oil leaks. Test for proper operation and efficiency. Observe bearing and operating surface temps. Check oil heater operation. Check oil level and condition. Perform acid test. Measure vibration on main bearings.

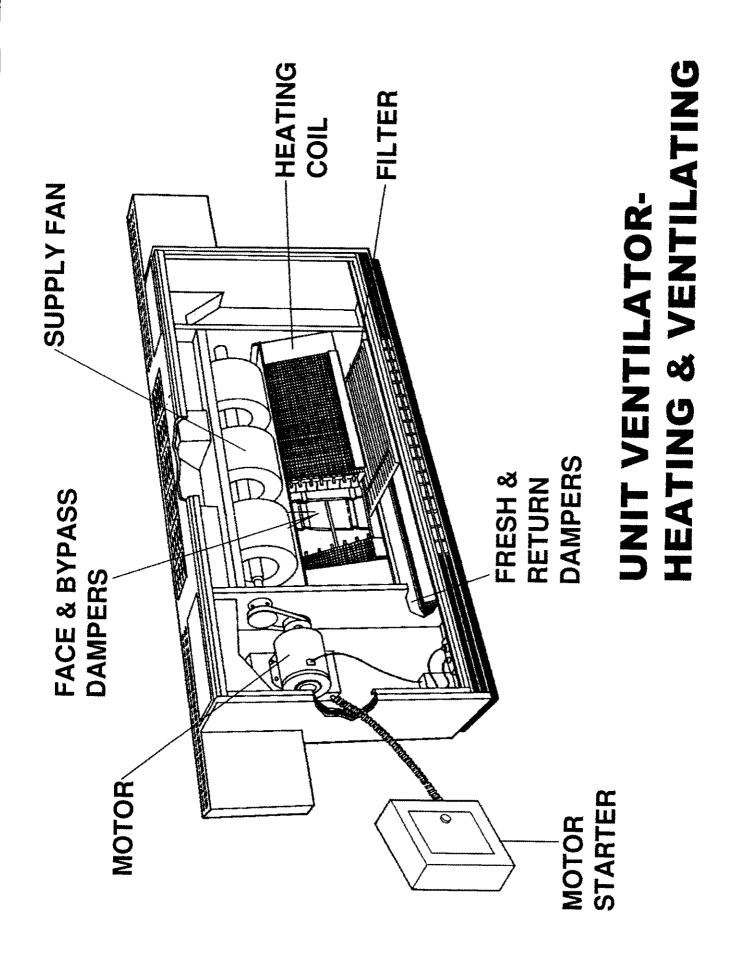
COMPONENT	FUNCTION	MAINTENANCE
VANES	 Regulates the amount of refrigerant vapor entering compressor. 	 Repair as required. Lubricate vane linkages. Check vane control for proper operation.
PURGE UNIT	 Removes non condensables and water vapor from refrigerant system. 	 Lubricate motor. Clean purge drum. Change purge unit oil. Check drive beit and adjust tension.
VIBRATION S OLATORS	 Reduces noise transmission of unit to building structure. 	 Check for security and resiliency.
EVAPORATOR	 Provides for heat transfer from chilled water to refrigerant. 	 Inspect rupture disc for leaks. Inspect and clean tubes as required.
FLOW CONTROL	 Regulates refrigerant flow from the condenser to the evaporator. 	 Check float control operation as required.
LUBRICATION PUMP	 Supplies oil to critical bearings in compressor. 	 Inspect and check for proper operation. Change oil as required.

COMPONENT	FUNCTION	MAINTENANCE
CONDENSER	• Transfers heat from refrigerant to condenser water.	 Inspect and clean tubes as required. Inspect for corrosion, clean and paint as required.
CONDENSER WATER CONNECTIONS	 Provides connections for condenser water supply and return. 	 Inspect and check for leaks. Repair or tighten as required.
CHILLED WATER CONNECTION	 Provides connections for chilled water supply and return. 	 Inspect and check for leaks. Repair or tighten as required.

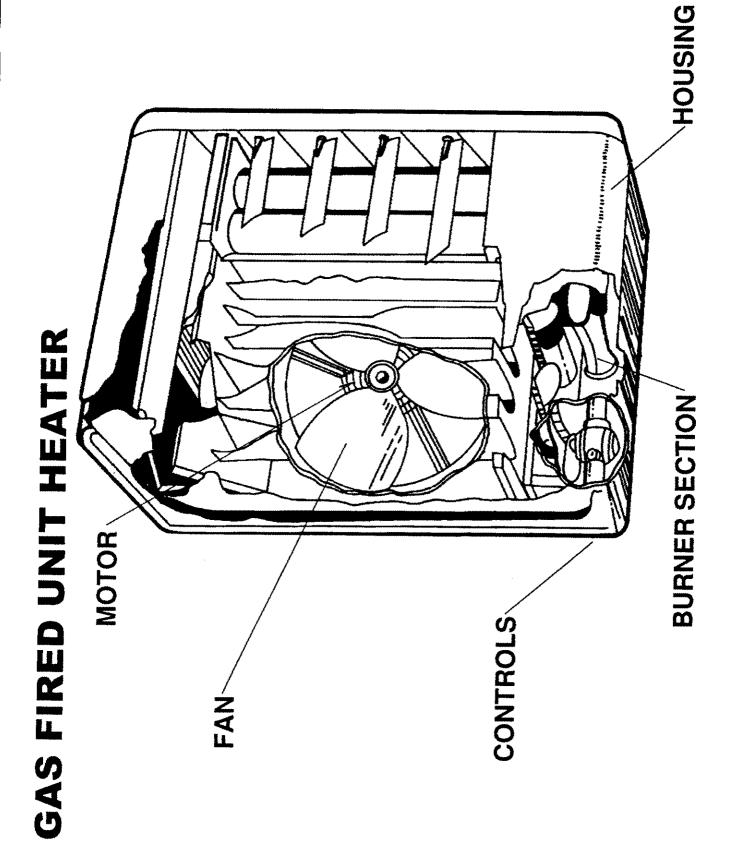


COMPONENT	FUNCTION	MAINTENANCE
ABSORBER CONTROL CENTER	 Provides safety interlock and load control. 	 Sequence test all controls. Clean controls, calibrate and adjust safety devices. Check for air leaks and/or electrical connection.
PURGE UNIT (PURGE MOTOR, PURGE PUMP, PURGE SOLENOD VALVE, PURGE SHUT OFF VALVE)	· Removes non-condensables from system.	 Lubricate motor. Change purge unit oil. Check drive belt and adjust tension.
REFRIGERANT PUMP ABSORBER PUMP	 Circulates refrigerant in evaporator. Circulates refrigerant in absorber. Pumps solution to concentrator. 	 Perform vibration test. Lubricate motor and pump bearings. Labricate motor and seals for leakage and deterioration. Clean and paint as required. Clean pump motor cooling water strainer.
CONCENTRATOR PUMP		
SOLUTION SERVICE VALVES	 Provides access to system solution. 	 Add octyl alcohol as required. Draw solution sample and test to manufacturer's specification.
EVAPORATOR	 Provides for heat transfer between chilled water and refrigerant. 	 Inspect and clean water-side as necessary. Inspect connections for leaks. Repair or tighten access plate as required. Inspect nozzles.

COMPONENT	FUNCTION	MAINTENANCE
ABSORBER	 Allows refrigerant vapor to be drawn out of the evaporator. 	 Inspect and clean water-side as necessary. Inspect connections for leaks. Repair or tighten access plate as required.
ECONOMIZER (VALVE)	· Controls solution flow to concentrator.	 Check valve operation. Replace motor diaphragm.
ELECTRIC CONTROL PANEL	 Provides internal control and safety for unit. 	 Check safety controls. Clean, calibrate and adjust. Inspect starters, replace worm contacts. Check current draw with amprobe. Perform megger test.
STEAM SUPPLY CONDENSATE TRAP RETURN	 Provides measured steam for operation and returns condensate to boller. 	 Check steam valve operation. Clean strainer. Replace diaphragm as required. Repair or replace maintainable trap items. Inspect connections. Clean and paint as required.
GENERATOR	 Adds heat in the form of steam or hot water to boil off the refrigerant from the absorbent to reconcentrate the solution. 	 Inspect and clean water-side as necessary. Inspect connections for leaks. Repair or tighten access plate as required.
CONDENSER	 Condenser water vapor produced in the generator by circulating condenser water through the unit. 	 Inspect and clean water-side as necessary. Inspect connections for leaks. Repair or tighten access plate as required.

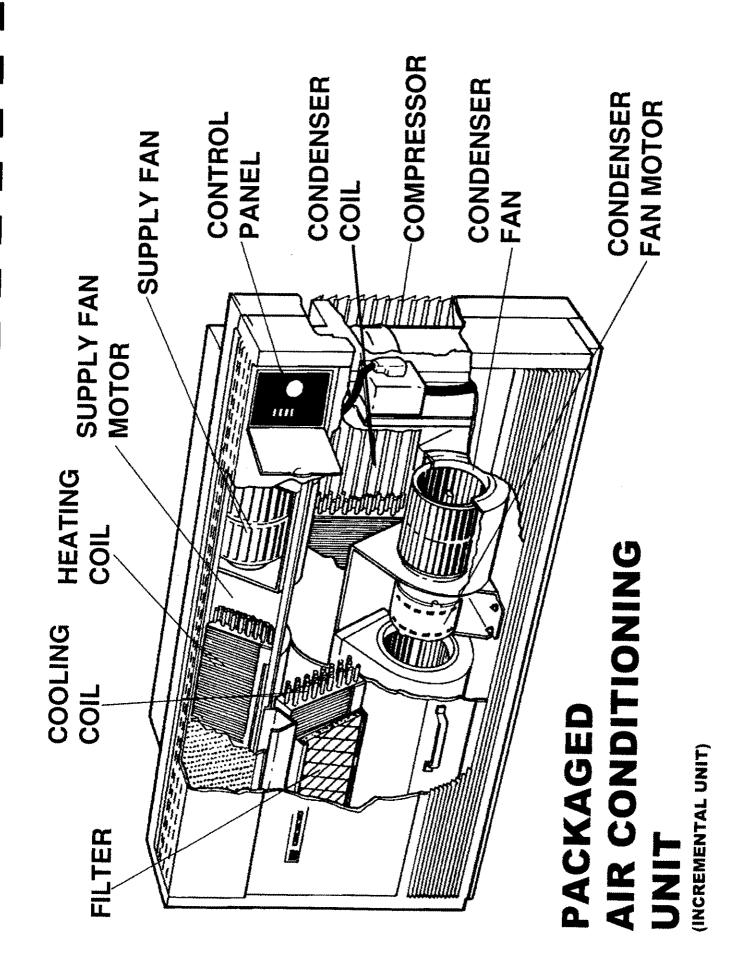


COMPONENT	FUNCTION	MAINTENANCE
FRESH & RETURN AIR DAMPERS	• Regulates the amount of outside and return air entering the unit.	 Check for proper operation and closure. Lubricate bearings.
MOTOR	 Provides energy source for fan operation. 	 Inspect and clean as required. Lubricate bearings. Examine motor mount resiliency.
MOTOR STARTER	 Controls on/off operation of motor. 	 Inspect starter colls and contacts. Check current and heater size.
FACE & BYPASS DAMPERS	 Regulates air flow through or around heating coil or a combination of both. 	 Check for proper operation and closure. Lubricate bearings.
SUPPLY FAN	 Circulates air to space being served. 	 Inspect and clean. Check for proper rotation and clearance. Check security to motor shaft.
HEATING COIL	 Provides heatsource for space being served. 	 Inspect and clean. Straighten fins. Check for damage or leaks.
FUJTER	Cleans the air entering the unit	• Replace as required.



COMPONENT	FUNCTION	MAINTENANCE
HOUS ING	 Provides air direction and velocity. 	 Check mounts for security. Clean and remove external/internal dirt accumulation.
FAN	• Circulates air in the system.	 Inspect and clean. Check for proper rotation and alignment. Perform vibration test.
MOTOR	 Provides energy source for fan operation. 	 Check current. Perform vibration test. Lubricate motor bearings.
BURNER SECTION	 Transfers heat from fuel to heating medium. 	 Check flame composition and shape. Perform combustion and draft test. Inspect and clean orifices, passages and nozzles. Adjust fuel/air ratio. Check gas pressure regulator setting.
CONTROLS	 Controls temperature and provides safety measures. 	 Perform operational tests and assure proper settings: Operating controls. High temperature safety control. Flame failure safety limit.

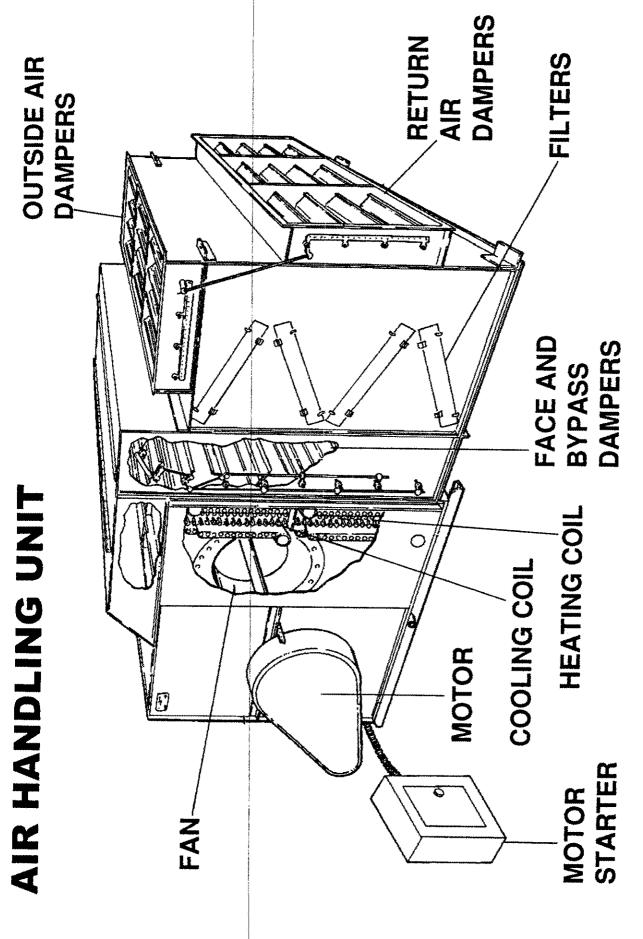
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G COIL · · · · · · · · · · · · · · · · · · ·	Cleans the air entering the unit. Provides cooling source for space being served. Provides heat source for space being served.	 Replace as required. Measure inlet and outlet temperature for efficiency. Inspect and clean. Straighten fins. Check for damage or leaks. Check drain pan and drain. Measure inlet and outlet temperature for
IG COIL · · · · · · · · · · · · · · · · · · ·	ling source ig served. source for erved.	 Measure inlet and outlet temperature for efficiency. Inspect and clean. Straighten fins. Check for damage or leaks. Check drain pan and drain. Measure inlet and outlet temperature for
G COL · ·	source for erved.	 Measure inlet and outlet temperature for
FAN ·		efficiency. • Inspect and clean. • Straighten fins. • Check for damage or leaks.
MOTOR Jor Ian operation.	gy source 0a.	 Inspect and clean. Lubricate. Examine motor mount resiliency.
SUPPLY FAN Circulates conditioned air to space being served.	ditioned air served.	 Inspect and clean. Check for proper rotation and clearance. Check security to motor shaft.
CONTROL PANEL · Provides selection and control for unit operation.	tion and t operation.	 Test for proper operation.
CONDENSER · Rejects room he COIL	Rejects room heat to outside air.	 Inspect and clean. Straighten fins. Check for damage or leaks.

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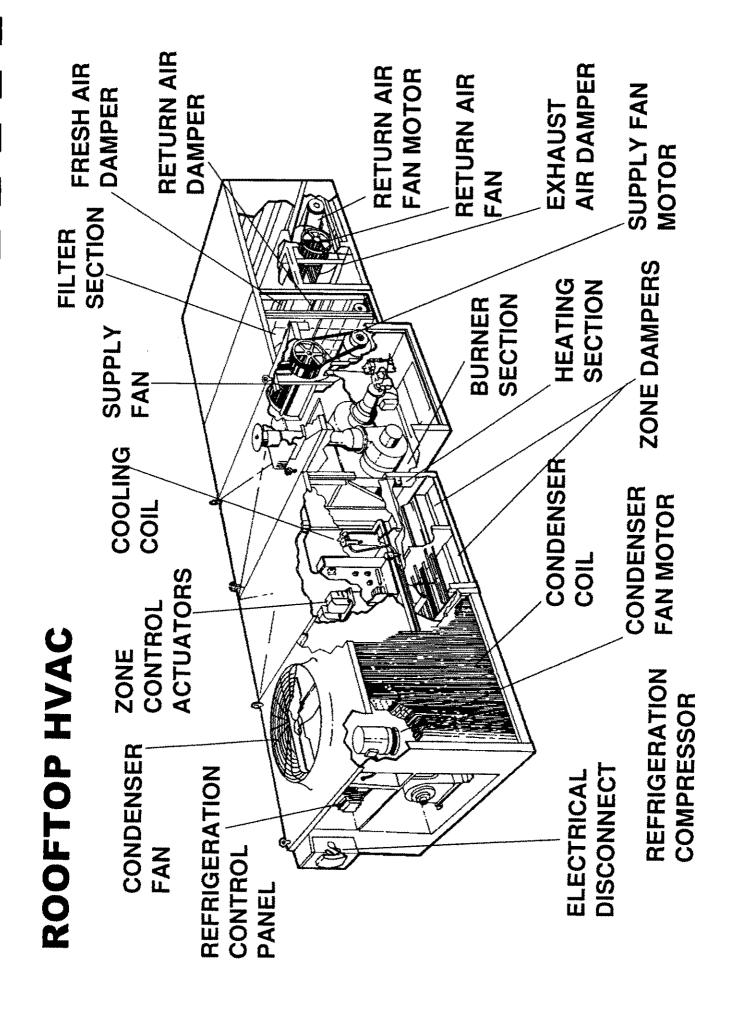
	UNCTION	MA	MAINTENANCE
COMPRESSOR • Pre-	Prepares refrigerant to be condensed and reused at the evaporator.		Check refrigerant charge. Check for refrigerant and oil leaks. Check crankcase heater operation. Perform acid test.
CONDENSER · Cir FAN	Circulates air through condenser coil.		lnspect and clean. Check for proper rotation and clearance.
CONDENSER · Pro FAN MOTOR	Provides energy source for fan operation.	••••	Inspect and clean. Lubricate. Examine motor mount resiliency.



COMPONENT	FUNCTION	MAINTENANCE
FAN	 Moves conditioned air to area being served. 	 Inspect and clean. Check for proper rotation. Perform vibration test.
MOTOR	 Provides energy source for fan operation. 	 Perform vibration test. Lubricate. Examíne motor mount resiliency.
MOTOR STARTER	 Controls on/off operation of motor. 	 Inspect starter coils and contacts. Tighten electrical connections. Check current and heater size.
COOLNG COL	 Provides cooling source for area being served. 	 Measure inlet and outlet temperature for efficiency. Inspect and clean. Straighten fins. Check for damage or leaks.
HEATING COIL	 Provides heat source for area being served. 	 Measure inlet and outlet temperature for efficiency. Inspect and clean. Straighten fins, Check for damage or leaks,
FACE AND BYPASS DAMPERS	 Regulates air flow through or around the heating and cooling coils. 	 Lubricate bearings. Check for proper close off and operation. Tighten any loose linkage connections.
FLTERS	• Cleans the air entering the unit and area being served.	 Replace as required. (continued)

	ıd operation. nnections.	d operation. unections.
MAINTENANCE	 Lubricate bearings. Check for proper close off and operation. Tighten any loose linkage connections. 	 Lubricate bearings. Check for proper close off and operation. Tighten any loose linkage connections.
FUNCTION	 Regulates the quantity of return air entering the unit. 	 Regulates the quantity of outside air entering the units.
COMPONENT	RETURN AIR DAMPERS	OUTS IDE AIR DAMPERS

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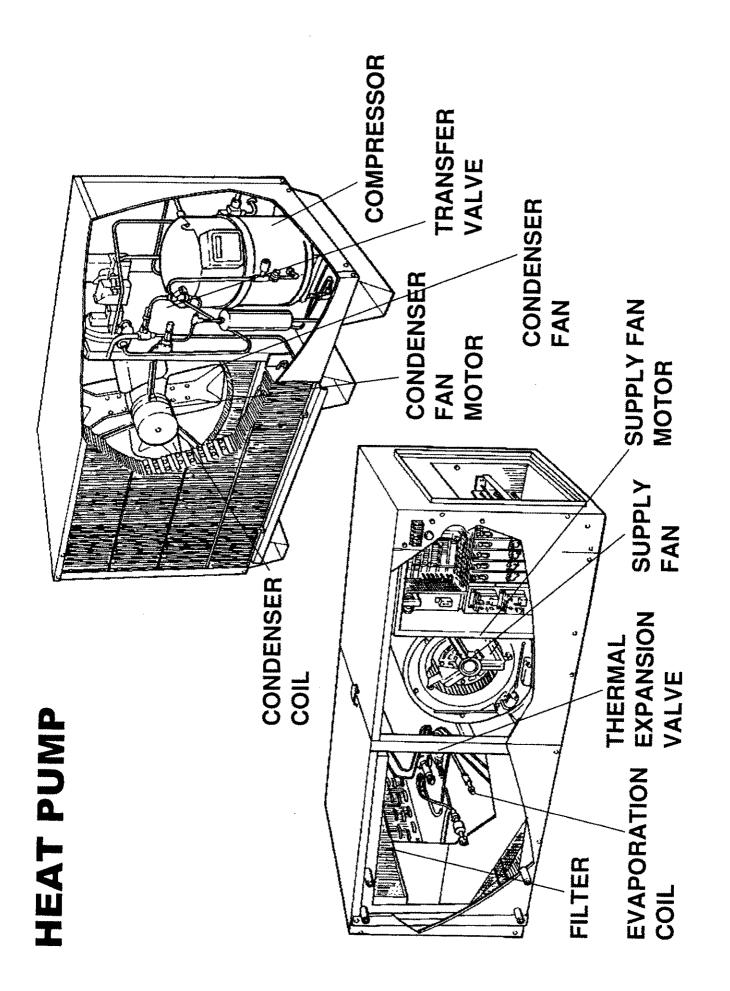
COMPONENT	FUNCTION	MAINTENANCE
ELECTRICAL DIS CONNECT	 Provides primary electrical power safety shutoff. 	 Inspect contacts and loose connections. Check for proper operation.
CONDENSER FAN MOTOR	 Provides energy source for fan. 	 Perform vibration test. Lubricate bearings. Examine motor mount resiliency. Check motor insulation resistance.
MOTOR STARTER	 Controls on/off operation of motor. 	 Inspect starter coils and contacts. Tighten all electrical connections. Check operating current, voltage and heater size.
CONDENSER FAN	 Circulates air through condenser coll. 	 Check fan wheel and clean dirt accumulation. Lubricate bearings and check for end play, excessive bearing temp, and wear. Check condition of drive couplings and belts. Adjust as required. Check for corrosion and wear.
CONDENŠER COLL	 Converts refrigerant from high temp./high press. gas to low temp./high press. liquid. Provides efficient heat transfer. 	 Clean finned surfaces. Check for damage or leaks. Straighten bent fins.
REFRIGERATION CONTROL PANEL	 Provides safety interlocks and controls for compressor operation. 	 Sequence test all controls. Calibrate and clean controllers and safety controls. Check setpoint of controls and limits.

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COMPONENT	FUNCTION	MAINTENANCE
REFRIGERATION COMPRESSOR	 Prepares refrigerant to be condensed and reused at the evaporator. 	 Check crankcase heater operation. Check refrigerant charge. Check for refrigerant and oil leaks. Check oil level and condition. Perform acid test. Observe bearing and operating surface temperatures. Measure vibration.
ZONE CONTROL ACTUATORS	 Operates zone dampers on demand from space control. 	 Inspect, clean and calibrate. Adjust linkage as necessary.
COOLING	 Provides cooling for space being served. 	 Inspect and clean as required. Check condition of finned surfaces and straighten if bent. Check for corrosion and leaks.
FILTER SECTION	 Provides source of clean air for unit. 	 Replace media as required.
FRESH AIR DAMPER	• Provides source of outside air.	 Check for unrestricted and proper operation and close-off. Lubricate bearings as required.
RETURN AIR DAMPER	 Provides source of recirculated air from the building. 	 Check for unrestricted and proper operation. Lubricate bearings as required.
EXHAUST AIR DAMPER	 Provides outlet for exhausted air from building. 	 Check for unrestricted and proper operation and close-off. Lubricate bearings as required.

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RETURN Circulates return air from AIR FAN Circulates return air from cesses be basing same check Arr end plus, cesses basing energy and the compliage being secred by unit. I aboticate bearings and check Arr end plus, cesses bearing energy and check presend in excannation. SUPPLY FAN Circulates conditioned afro arras being secred by unit. Check condition of dra energy and check presend by unit. Check condition of dra energy and check presend by unit. RETURN AIR Provides corregy and for return air fina. Check presidence, balance and security to being secred by unit. Check presidence, balance and security to the return air fina. MOTOR Provides corregy and for return air fina. Elaboricate more barings. Elaboricate more barings. MOTOR Provides corregy and for return air fina. Elaboricate more barings. Elaboricate more barings. MOTOR Provides corregy and for math fina. Elaboricate more barings. Elaboricate more barings. MOTOR Provides combustion of motor. Elaboricate motor randuit resultings. Elaboricate more barings. BURNER Provides combustion of motor. Elaporicate and the resulting current, voltage and keeter ster. BURNER Provides combustion controls, find for each or proving. Elaboricate and the result ster. BURNER Provides combustion controls, find for each or proving. Elaboricate and the result ster. BURNER Provides combustion controls, find for each or proving. </th <th>COMPONENT</th> <th>FUNCTION</th> <th>MAINTENANCE</th>	COMPONENT	FUNCTION	MAINTENANCE
LY FAN - Circulates conditioned air to areas being served by unit. RN AIR - Provides energy source	RETURN AIR FAN	 Circulates return air from building. 	 Lubricate bearings and check for end play, excessive bearing temp. and wear. Check blower and clean dirt accumulation. Check condition of drive couplings
RN AIR • Provides energy source AOTOR for return air fan. ILY MOTOR • Provides energy source ILY MOTOR • Provides combustion of motor. ILER • Controls on/off operation of motor. ILS • Controls for heating section. IL • Provides heat source for IL • Provides heat source for ON • Provides source for conditioned air ERS • Provides source for conditioned air	S UPPLY FAN	 Circulates conditioned air to areas being served by unit. 	 and belts. Check for alignment, balance and security to shaft. Check rotation.
LY MOTOR · Provides energy source R for main fan. IER · Controls ou/off operation of motor. · IER · Provides combustion controls, fuel · regulating cquipment, and safety · controls for heating section. · NG · Provides heat source for · NG · Provides heat source for · end safety · end sa	RETURN AIR FAN MOTOR	 Provides energy source for return air fan. 	 Perform vibration test. Lubricate more bearings. Check motor insulation resistance. Examine motor mount resiliency.
IR • Controls on/off operation of motor. • TER • Provides combustion controls, fuel • ER • Provides combustion controls, fuel • ON • Provides combustion controls, fuel • NG • Provides heat source for • NG • Provides heat source for • ON • Provides heat source for • ERS • Provides source for conditioned air •	SUPPLY MOTOR	 Provides energy source for main fan. 	
ER • Provides combustion controls, fuel • • regulating equipment, and safety • • controls for heating section. • • • • • • • • • • • • • • • • • • •	MOTOR STARTER	 Controls on/off operation of motor. 	 Inspect starter coils and contacts. Tighten all electrical connections. Check operating current, voltage and heater size.
NG • Provides heat source for • • • • • • • • • • • • • • • • • • •	BURNER SECTION	 Provides combustion controls, fuel regulating equipment, and safety controls for heating section. 	 Perform combustion and draft tests. Inspect and clean nozzles. Inspect, clean and lube burner fan (gun type burners). Test safety controls.
 Provides source for conditioned air BRS ERS 	HEATING SECTION	 Provides heat source for areas being served. 	 Inspect and clean as required. Check for leaks in exchanger.
	ZONE DAMPERS	 Provides source for conditioned air being delivered to areas served by unit. 	 Check for proper operation. Check linkage and adjust if required. Lubricate bearings as required.



COMPONENT	FUNCTION	MAINTENANCE
FILTER	• Cleans the air entering the unit.	 Replace as required.
EVAPORATOR COIL	 Provides heating/cooling source for space being served. 	 Measure inlet and outlet temperature for efficiency. Inspect and clean. Straighten fins. Check for damage or leaks. Inspect and clean drain pan and drain line.
CONDENSER COIL	 Dissipates or absorbs heat to/from outside alr. 	 Inspect and clean. Straighten fins. Check for damage or leaks.
COMPRESSOR	 Prepares refrigerant to be condensed and reused at the evaporator. 	 Check refrigerant charge. Check for refrigerant and oil leak. Check crankcase heater operation. Check compressor motor current.
SUPPLY FAN	 Circulates conditioned air to space being served. 	 Inspect and clean. Check for proper rotation and clearance. Check security to motor shaft.
SUPPLY FAN MOTOR	 Provides energy source for supply fan operation. 	 Inspect and clean. Lubricate. Examine motor mount resiliency.
MOTOR STARTER	 Controls on/off operation of motor. 	 Inspect starter coils and contacts. Check current and heater size.

COMPONENT	FUNCTION	MAINTENANCE
CONDENSER FAN	 Circulates air through outside coll. 	 Inspect and clean. Check for proper rotation and clearance. Check security to motor shaft.
CONDENSER FAN MOTOR	 Provides energy source for fan operation. 	 Inspect and clean. Lubricate. Examine motor mount resiliency.
CONTROL PANEL	 Provides selection and control for unit operation, 	 Test for proper operation. Tighten all electrical connections. Sequence test all controls.
THERMAL EXPANSION VALVE	 Provides refrigerant flow control. 	 Check for proper operation. Adjust as required.
TRANSFER VALVE	 Switches heat pump operation and flow of refrigerant between heating and cooling. 	 Check for proper operation. Adjust as required.