

HI-E DRY 195

Installation, Operation and Maintenance Instructions

– Read and Save These Instructions –

This manual is provided to acquaint you with the dehumidifier so that installation, operation and maintenance can proceed successfully. Ultimate satisfaction depends on the quality of installation and a thorough understanding of this equipment. The dehumidifier is built around tested engineering principles and has passed a thorough inspection for quality of workmanship and function.

HI-E Dry 195:

- Controlled by a dehumidistat with settings from 20 to 80 percent relative humidity and a positive “on” and “off” setting.
- Contains a blower switch that permits continuous blower operation independent of dehumidification.
- Portable and provided with four casters.
- Contains an internal condensate pump capable of lifting condensate 17 feet and 20 feet of condensate hose.
- Wiring is through a factory installed six foot power cord; 115 volt with ground.
- Environmentally friendly R410A refrigerant.



Water Removal Rates (Pints/Day)

320 pints	90° F, 90%
245 pints	80° F, 80%
192 pints	80° F, 60% (AHAM)
205 pints	70° F, 80%
150 pints	70° F, 60%
162 pints	60° F, 80%
91 pints	60° F, 60%
81 pints	50° F, 80%
40 pints	50° F, 60%



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Serial No. _____

Purchase Date _____

Dealer's Name _____



Safety Precautions

Read the installation, operation and maintenance instructions carefully **before** installing and using this unit. Proper adherence to these instructions is essential to obtain maximum benefit from your HI-E Dry 195 dehumidifier.

READ AND SAVE THESE INSTRUCTIONS

- It is designed to be installed **INDOORS ONLY**.
- If used near a pool or spa, be certain there is **NO** chance the unit could roll into the water or be splashed and that it is plugged into a **GROUND FAULT INTERRUPTER**.
- **DO NOT** use the HI-E Dry 195 as a bench or table.
- Avoid discharging the air directly at people, especially in pool areas.



1. Specifications

Part Number	4030060
Power	115 VAC 12 amps
Kilowatts	1.25 (80° 60%)
Blower	540 CFM
Capacity (24 hrs.)	192 pints (80°, 60%)
Temp. Range	33°F–110°F
Warranty	5 Year Limited

Dimensions

	Unit	Shipping
Width	36.6"	39.25"
Height	40"	48.75"
Depth	19"	30"
Weight	180 Lb	214 Lb

Minimum Performance at Set Conditions

Intake Air	70° 60%	80° 60%
Water removal/day	156 Lbs	200 Lbs
Pints/KWH	5.4	5.9

2 Installation

2.1 Location

The HI-E *Dry* 195 can be installed in a variety of locations to meet the owner’s needs as listed below. In all cases keep the following cautions in mind:

- It is designed to be installed **INDOORS ONLY**.
- If used near a pool or spa, be certain there is **NO** chance the unit could roll into the water or be splashed and that it is plugged into a **GROUND FAULT INTERRUPTER**.
- **DO NOT** use the HI-E *Dry* 19 as a bench or table.
- Avoid discharging the air directly at people, especially in pool areas.



2.1A In Humid Area, No Ducting

The simplest installation is to place the HI-E Dry 195 in the humid area with no ducting. The air inlet on top & outlet on the side must be at least 1' from walls and other obstructions to air flow.

2.1B In Humid Area, Duct inlet and/or Outlet

If the humid area is very large or has high ceilings, dehumidification can be improved by adding an inlet and/or outlet duct to circulate and destratify stagnant areas. For a large area, add inlet or outlet ducting to create flow across the area's greatest length.

For areas with ceilings higher than 12', use an inlet duct to draw warm, moist air from near the ceiling. See section 2.4 for attaching duct collars & ducting.

2.1C In Remote Area, Duct Inlet & Outlet

It is often desirable, especially in pool rooms and finished areas, to install the HI-E Dry 195 in an adjacent equipment room or unfinished area. Air is transferred between the humid room and the unit via ducting.

The factory mounted humidity control on the HI-E Dry 195 cabinet may not sense the humidity in the humid room accurately enough with this installation method. If so, an additional humidity control can be mounted in the humid room and wired to the HI-E Dry 195. Local electrical codes must be followed when wiring the control.

2.1D In Remote Area, Duct Outlet Only

A simpler remote installation method than the one above uses ducting only between the HI-E Dry 195 discharge and the humid room; the HI-E Dry 195 inlet draws air from the room in which it's located. This works well if there is an adequate air flow path between the two rooms; e.g., high door undercut, louvered door or wall grill. This eliminates the need to remote mount the humidity control. There are several potential disadvantages to using this method. First, humid air is drawn into the room where the HI-E Dry 195 is located. Second, to accurately sense humidity, the blower in the HI-E Dry 195 may need to run continuously to draw air from the humid room into the HI-E Dry 195 room. Third, a slight negative pressure is created in the room with the HI-E Dry 195 which could back draft open combustion devices located there. If such devices are present, call the factory for specific instructions before using this installation method or consider the option below.

2.1E In Remote Area, Duct Inlet Only

When the HI-E Dry 195 is located in a room separate from the main area to be dehumidified, it may be desirable to dehumidify and/or slightly pressurize that room. Pressurization assures that open combustion devices do not back draft as would be the case if the room was sufficiently de-pressurized. This can be accomplished by installing a duct from the humid room to the HI-E Dry 195 inlet and by allowing the HI-E Dry 195 to discharge the dehumidified air into the room in which it's located. An adequate air flow path must exist between the two rooms for this method to work well. An additional humidity control may need to be mounted in the humid area and wired to the HI-E Dry 195 to accurately maintain the desired humidity. Local electrical codes must be followed when wiring the control.

2.2 Electrical Requirements

The HI-E Dry 195 plugs into a common grounded outlet on a 15 Amp circuit. It draws between 6 and 7 Amps under normal operating conditions. If used in a wet area (pool, spa room, or basement prone to flooding), a ground fault interrupter protected circuit is required.

If an extension cord is required, it must have a minimum of 16 gauge conductors if less than 25 feet long and 14 gauge if greater than 25 feet.



2.3 Condensate Removal

The HI-E Dry 195 is equipped with an internal condensate pump to remove the water that is condensed during dehumidification. This allows the condensate to be pumped 20' with the attached hose. If the condensate must be pumped more than 20 feet above the unit, a second pump must be added to relay the condensate. The condensate pump is mounted inside the HI-E Dry 195 as a permanent, integral part of the unit. It includes a safety switch feature that prevents flooding by turning off the HI-E Dry 195 if the pump fails.

2.4 Ducting

2.4A Optional Ducting

Two twelve-inch collars are available as a kit from the factory that will allow ducting to be attached to the inlet and outlet of the HI-E Dry 195. Attach the inlet collar to the top of the unit by cutting the eight tabs that support the 12" round opening in the top. The 12" collar with three tabs can be attached via the holes provided in the front of the unit, and the other 12" collar can be affixed to the top opening.

2.4B Ducting for Dehumidification

Ducting the HI-E Dry 195 as mentioned in sections 2.1B-2.1E requires consideration of the following points:

Duct Sizing: For total duct lengths up to 25', use a minimum 10" diameter round or equivalent rectangular. For longer lengths, use a minimum 12" diameter or equivalent. Grills or diffusers on the duct ends must not excessively restrict airflow.

Isolated Areas: Effective dehumidification may require that ducting be branched to isolated, stagnant areas. Use 8" diameter branch ducting to each of two or three areas; use 6" to each of four or five areas; use 4" to each of six or more areas.

2.4C Ducting for Fresh Air

Fresh air can be brought into the structure continuously by connecting a duct from outside to the HI-E Dry 195 inlet and by turning on the fan switch. Advantages of this form of ventilation include:

1. Outside air is filtered before entering the building.
2. Outside air will be dehumidified before entering if the HI-E Dry 195 is running.
3. Drawing air from outside and blowing inside aids in pressurizing the structure. This helps prevent unfiltered and undehumidified air from entering elsewhere. It also reduces the potential for carcinogenic radon gas to enter.
4. The need for an alternate ventilation device may be eliminated.

An insulated 4" diameter duct is generally sufficient to provide up to 70 CFM of outside air. A 6" duct with an adjustable damper is recommended for higher flows. Large quantities of outside air will impact HI-E Dry 195 performance positively or negatively, depending upon the difference between inside and outside air conditions. Consult the factory by calling 1-800-533-7533 for recommendations regarding the use of higher flows with your specific application.

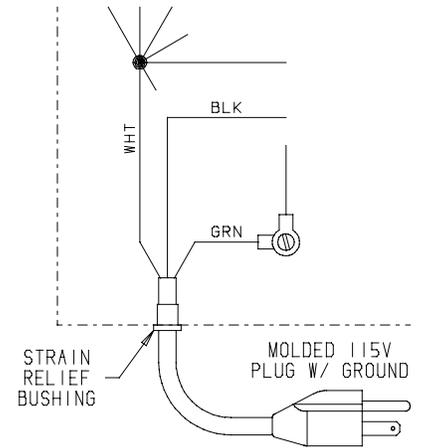
The outside air duct should be connected into the main inlet duct close to the unit. If no other inlet duct is used, it may be necessary to obstruct the inlet of the HI-E Dry 195 to ensure adequate ventilation.



2.5 Optional Remote Humidity Control

A 120Vac remote humidity control is available from the factory. This control can be wired in parallel with the internal humidity control. Unplug the unit and remove the cabinet front. Remove the four screws securing the control box to the blower end of the HI-E Dry 195. Pull the control box away from the blower end to allow access. Conduit can be connected to the knockout in the blower end. Wire the two leads from the remote humidity control to the two orange leads provided inside the control box.

Now you can control the HI-E Dry 195 with the internal or remote humidity control. If you wish to use only the remote humidity control, turn the internal humidity control counter-clockwise until it stops. This will turn the internal humidity control off.



2.6 Hard Wiring the HI-E Dry 195

1. Remove the cabinet front to the left of the cord mount.
2. Cut the cord near the strain relief bushing and remove the cord and the strain relief bushing.
3. Trim and strip the wire ends for wire nuts.
4. Use a 1/2" connector to attach the hard wiring to the HI-E Dry 195. Use a minimum of #3-14 wire. Comply with all state and local code requirements.
5. Use wire nuts to attach the appropriate wire leads.

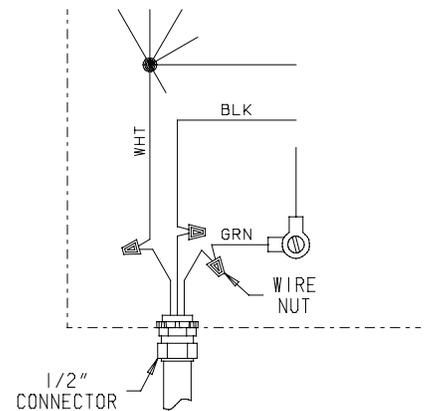


Figure 1: Hard Wiring the HI-E Dry 195

3. Operation

3.1 Humidity Control Adjustment

The dehumidifier will run continuously until the relative humidity (RH) is reduced to the humidity control dial setting. Setting the humidity control to lower RH levels will NOT increase the unit's dehumidification rate, it will simply run longer to reduce the area's RH to the setting. The HI-E Dry 195 100 unit (and refrigerant based dehumidifiers in general) will reduce a warm space's RH to a lower level than that of a cool space. It is therefore pointless to set the humidity control to excessively low levels in cool rooms. Doing so will result in long periods of ineffective dehumidifier run time.

A quality humidity meter is recommended to accurately monitor humidity levels. For a quote on a quality humidity meter, call the factory.

3.2 Fan Switch

Turning the fan switch ON will cause the unit's internal blower to run continuously, whether the unit is dehumidifying or not. This function is desirable if the unit is used for air circulation or fresh air ventilation.



3.3 Defrost Control Adjustment

When the HI-E Dry 195 is used in a cool area, frost will form on the cooling coil as it dehumidifies. When enough frost forms, the defrost thermostat will initiate the timed defrost cycle. The cycle periodically turns off the compressor while allowing the blower to run. The air that the blower draws through the cooling coil melts the frost.

The defrost cycle is automatic and designed for optimum performance above 50°F.

3.4 Low Pressure Control

If the low side refrigerant pressure drops to 35 PSIG, the low pressure control opens and shuts off the compressor and blower. It is an automatically reset control that will close when the pressure rises to 60 PSIG. Its primary function is to prevent damage to the compressor if a leak develops in the refrigeration system. It may also open if the unit is A) used in a cool area (below 50°F) and the defrost timer is not adjusted (see Sec. 3.3) or B) stored where it is below 40°F and then started. Under these conditions, the unit will restart within several minutes. Until the unit warms up, it may cycle several times.

4. Maintenance

4.1 Air Filter

The HI-E Dry 195 is equipped with two 2" thick, MERV 8 pleated fabric air filters that must be checked regularly. Operating the unit with dirty filters will reduce the dehumidifier's capacity and efficiency and may cause the compressor to cycle off and on unnecessarily on the defrost control.

The filter can generally be vacuumed clean several times before needing replacement. Replacement filters can be ordered from the factory or purchased locally if available. DO NOT operate the unit without the filter or with a less effective filter as the heat exchange coils inside the unit could become clogged and require disassembly to clean.

5. Service

CAUTION: Servicing the HI-E Dry 195 with its high-pressure refrigerant system and high voltage circuitry presents a health hazard which could result in death, serious bodily injury, and/or property damage. Only qualified service people should service this unit.

5.1 Warranty

A warranty certificate has been enclosed with this unit. Read it before any repair is initiated. If a warranty repair is required, call the factory first at 1-800-533-7533 for warranty claim authorization and technical assistance.

5.2 Technical Description

Refer to Figure 3. The HI-E Dry 195 uses a refrigeration system similar to an air conditioner's to remove heat and moisture from incoming air, and add heat to the air that is discharged.



Hot, high-pressure refrigerant gas is routed from the compressor to the condenser coil. The refrigerant is cooled and condensed by giving up its heat to the air that is about to be discharged from the unit. The refrigerant liquid then passes through two capillary tubes, which cause the refrigerant pressure and temperature to drop. It next enters the evaporator coil where it absorbs heat from the incoming air and evaporates.

The evaporator operates in a flooded condition, which means that it should always be full of liquid refrigerant during normal operation. A flooded evaporator should maintain constant pressure and temperature across the entire coil, from inlet to outlet.

The mixture of gas and liquid refrigerant enter the accumulator after leaving the evaporator coil. The accumulator prevents any liquid refrigerant from reaching the compressor. The compressor evacuates the cool refrigerant gas from the accumulator and compresses it to a high pressure and temperature to repeat the process.

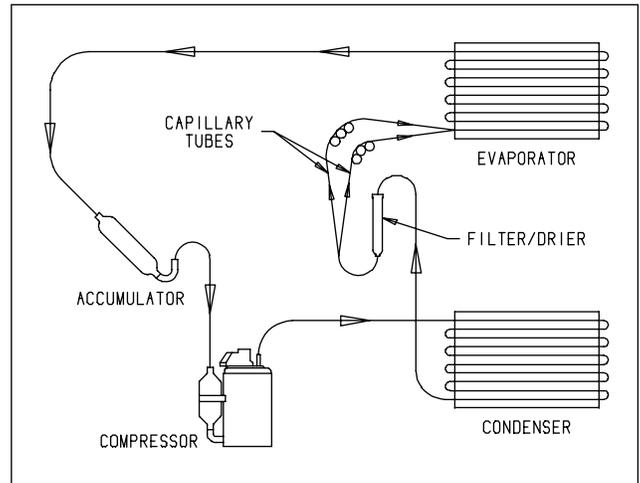


Figure 3: Refrigeration system of HI-E Dry 195

5.3 Troubleshooting

No dehumidification, neither blower nor compressor run with fan switch OFF.

1. Unit unplugged or no power to outlet.
2. Humidity control set too high or defective (Sec. 3.1 & 5.9)
3. Loose connection in internal wiring.
4. Open low pressure control (Sec. 3.4 & 5.7)

Some dehumidification, blower runs continuously but compressor only runs sporadically with fan switch OFF.

1. Unit is in defrost cycle (Sec. 3.3 & 5.10).
2. Defrost thermostat defective or loose (Sec. 3.3 & 5.10).
3. Loose connection in compressor circuit (see Fig. 4).
4. Defective compressor overload (Sec. 5.6A).
5. Defective compressor (Sec. 5.6).
6. Defective relay (Sec. 5.8).
7. Defective defrost timer (Sec. 5.10).

No dehumidification. Blower runs but compressor does not with fan switch OFF.

1. Bad connection in compressor circuit (Fig. 4).
2. Defective compressor capacitor (Sec. 5.6A).
3. Defective compressor overload (Sec. 5.6A).
4. Defective compressor (Sec. 5.6).
5. Defective relay (Sec. 5.8).
6. Defective defrost timer (Sec. 5.10).



7. Bad connection in pump circuit (Fig. 4).
8. Pump float switch or safety switch open (Sec. 5.11).
9. Pump motor defective (Sec. 5.11).

Blower does not run. Compressor runs briefly but cycles on & off.

1. Loose connection in blower circuit (Fig. 4).
2. Obstruction prevents impeller rotation.
3. Defective blower (Sec. 5.5).

Unit removes some water but not as much as expected.

1. Air temperature and/or humidity have dropped.
2. Humidity meter and/or thermometer used are out of calibration.
3. Unit has entered defrost cycle (Sec. 3.3 & 5.10).
4. Air filter dirty (Sec. 4.1).
5. Defective defrost thermostat (Sec. 5.10).
6. Low refrigerant charge (Sec. 5.4).
7. Air leak such as loose cover.
8. Defective compressor (Sec. 5.6).
9. Restrictive ducting (Sec. 2.4).

Pump does not pump water.

1. Hose kinked or plugged.
2. Pump check valve plugged (Sec. 5.11).
3. Bad connection in pump circuit (Fig. 4).
4. Hose disconnected internally.

Evaporator coil frosted continuously, low dehumidifying capacity.

1. Defrost thermostat loose or defective (Sec. 3.3 & 5.10).
2. Low refrigerant charge (Sec. 5.4).
3. Dirty air filters or airflow restricted. (Sec. 4.1).

5.4 Refrigerant Charging

If the refrigerant charge is lost due to service or a leak, a new charge must be accurately weighed in. If any of the old charge is left in the system, it must be removed before weighing in the new charge. Refer to the unit nameplate for the correct charge weight and refrigerant type. Add the refrigerant through the low side service port (See Fig. 5).



5.5 Blower Replacement

The centrifugal blower has a PSC motor and internal thermal overload protection. If defective, the complete assembly must be replaced.

1. Unplug the power cord.
2. Remove the cabinet front (6 screws).
3. If an outlet duct is connected to the unit, remove it.
4. Disconnect the blower leads: white from the compressor run capacitor, and black connected to the fan switch.
5. Remove the nuts & bolts holding the blower outlet flange to the cabinet end and remove the blower.
6. Reassembling with the new blower is the above procedure reversed.

5.6 Compressor/Capacitor Replacement

This compressor is equipped with a two terminal external overload, run capacitor, but no start capacitor or relay (see Fig. 4).

CAUTION-ELECTRICAL SHOCK HAZARD: Electrical power must be present to perform some tests; these tests should be performed by a qualified service person.

5.6A Checking Compressor Motor Circuits

Perform the following tests if the blower runs but the compressor does not with the humidity control ON.

1. Turn the humidity control OFF and unplug the unit, remove the cabinet front (6 screws).
2. Plug in the unit and turn the humidity control ON. Use a voltmeter to check for 110 to 120 volts between (a) the relay terminal that the black wire from the compressor connects to and (b) the capacitor terminal with the (2) white wires, (1) red wire & (1) brown wire connected. If voltage is present, go to step 3. If no voltage, the low pressure control, the defrost thermostat, the relay or the condensate pump safety switch are open or there is a loose connection in the compressor circuit. Test each component for continuity; see the appropriate section if a defect is suspected
3. Turn the humidity control OFF and unplug the unit, then disconnect the red and yellow wires from compressor terminals R & S. Using an ohmmeter check continuity between the points listed below.
4. Compressor terminals C and S: No continuity indicates an open start winding; the compressor must be replaced.
5. Compressor terminals C and R: No continuity indicates an open run winding; the compressor must be replaced.
6. Compressor terminal C and overload terminal 1: No continuity indicates a defective overload lead.
7. Overload terminals 1 and 3: If there is no continuity, the overload may be tripped; wait 10 minutes and try again. If there is still no continuity, it is defective and must be replaced.
8. Compressor terminal C and compressor case: Continuity indicates a grounded motor; the compressor must be replaced.
9. Disconnect the wires from the capacitor. Set the ohmmeter to the Rx1 scale; the capacitor is shorted and must be replaced if continuity exists across its terminals. If there is no needle movement with the meter set on the Rx100000 scale, the capacitor is open and must be replaced.



10. Reconnect the wires to the compressor and capacitor; plug in and turn on the unit. If the compressor fails to start, replace the run capacitor.
11. If the unit still does not start, adding a hard-start kit will provide greater starting torque. If this does not work, the compressor has an internal mechanical defect and must be replaced.

5.6B Replacing a Burned Out Compressor

The refrigerant and oil mixture in a compressor is chemically very stable under normal operating conditions. However, when an electrical short occurs in the compressor motor, the resulting high temperature arc causes a portion of the refrigerant oil mixture to break down into carbonaceous sludge, a very corrosive acid, and water. These contaminants must be carefully removed otherwise even small residues will attack replacement compressor motors and cause failures.

The following procedure is effective only if the system is monitored after replacing the compressor to insure that the clean up was complete.

1. This procedure assumes that the previously listed compressor motor circuit tests revealed a shorted or open winding. If so, cautiously smell the refrigerant from the compressor service port for the acid odor of a burn out.

WARNING: The gas could be toxic and highly acidic. If no acid odor is present, skip down to the section on changing a non-burn out compressor.

2. Remove and properly dispose of the system charge. DO NOT vent the refrigerant or allow it to contact your eyes or skin.
3. Remove the burned out compressor. Use rubber gloves if there is any possibility of coming in contact with the oil or sludge.
4. To facilitate subsequent steps, determine the type of burn out that occurred. If the discharge line shows no evidence of sludge and the suction line is also clean or perhaps has some light carbon deposits, the burn out occurred while the compressor was not rotating. Contaminants are therefore largely confined to the compressor housing. A single installation of liquid and suction line filter/driers will probably clean up the system.

If sludge is evident in the discharge line, it will likely be found in the suction line; this indicates the compressor burned out while running. Sludge and acid have been pumped throughout the system. Several changes of the liquid and suction filter/driers will probably be necessary to cleanse the system.

5. Correct the system fault that caused the burn out. Consult the factory for advice.
6. Install the replacement compressor with a new capacitor and an oversized liquid line filter.
In a running burn out, install an oversized suction line filter/drier between the accumulator and compressor. Thoroughly flush the accumulator with refrigerant to remove all trapped sludge and to prevent the oil hole from becoming plugged. A standing burn out does not require a suction line filter/drier.
7. Evacuate the system with a good vacuum pump and accurate vacuum gauge. Leave the pump on the system for at least an hour.
8. Operate the system for a short period of time, monitoring the suction pressure to determine that the suction filter is not becoming plugged. Replace the suction filter/drier if pressure drop occurs. If a severe running burn out has occurred, several filter/driers may have to be replaced to remove all of the acid and moisture.



NOTE: NEVER use the compressor to evacuate the system or any part of it.

5.6C Replacing a Compressor- Non-Burn Out

Remove the refrigerant from the system. Replace the compressor and liquid line filter/drier. Charge the system to 50 PSIG and check for leaks. Remove the charge and weigh in the refrigerant quantity listed on the nameplate. Operate the system to verify performance.

5.7 Relay

The contacts of the single pole, single throw relay complete the power circuit to the compressor. The contacts are closed when power is provided to the relay coil via the control circuit. The control circuit includes the humidity control, low pressure control, defrost thermostat and timer.

5.8 Humidity Control

The humidity control is an adjustable switch that closes when the relative humidity of the air in which it is located rises to the dial set point. It opens when the RH drops 4 to 6% below the set point.

5.9 Defrost Thermostat & Timer

The defrost thermostat is attached to the refrigerant suction tube between the accumulator and compressor. If the low side refrigerant temperature drops due to excessive frost formation on the evaporator coil, the thermostat opens. The compressor is then cycled off and on by the defrost timer. The blower will continue to run, causing air to flow through the evaporator coil and melt the ice when the compressor is off. When the air temperature and/or humidity increase, the evaporator temperature will rise and the thermostat will close to end the defrost cycle.

5.10 Condensate Pump

Condensate is automatically pumped when the water level in the pump's reservoir rises to close the float switch.

If the pump is unable to empty its reservoir due to a pump failure or blocked condensate hose, a pump safety float switch is triggered before the reservoir overflows. The switch turns off the compressor via its relay.

To replace the condensate pump:

1. Unplug the unit & remove the front cover.
2. Disconnect the 2 hoses from the pump.
3. Cut the pump lead wires near the old pump.
4. Remove the 2 nuts from the unit side that hold the pump to the side.
5. Attach the new pump with 2 nuts.
6. Connect the new pump wiring.
7. Connect the hoses to the new pump. Carefully route the hoses so they do not contact the copper refrigerant lines or the compressor shell.



6. Wiring Diagram

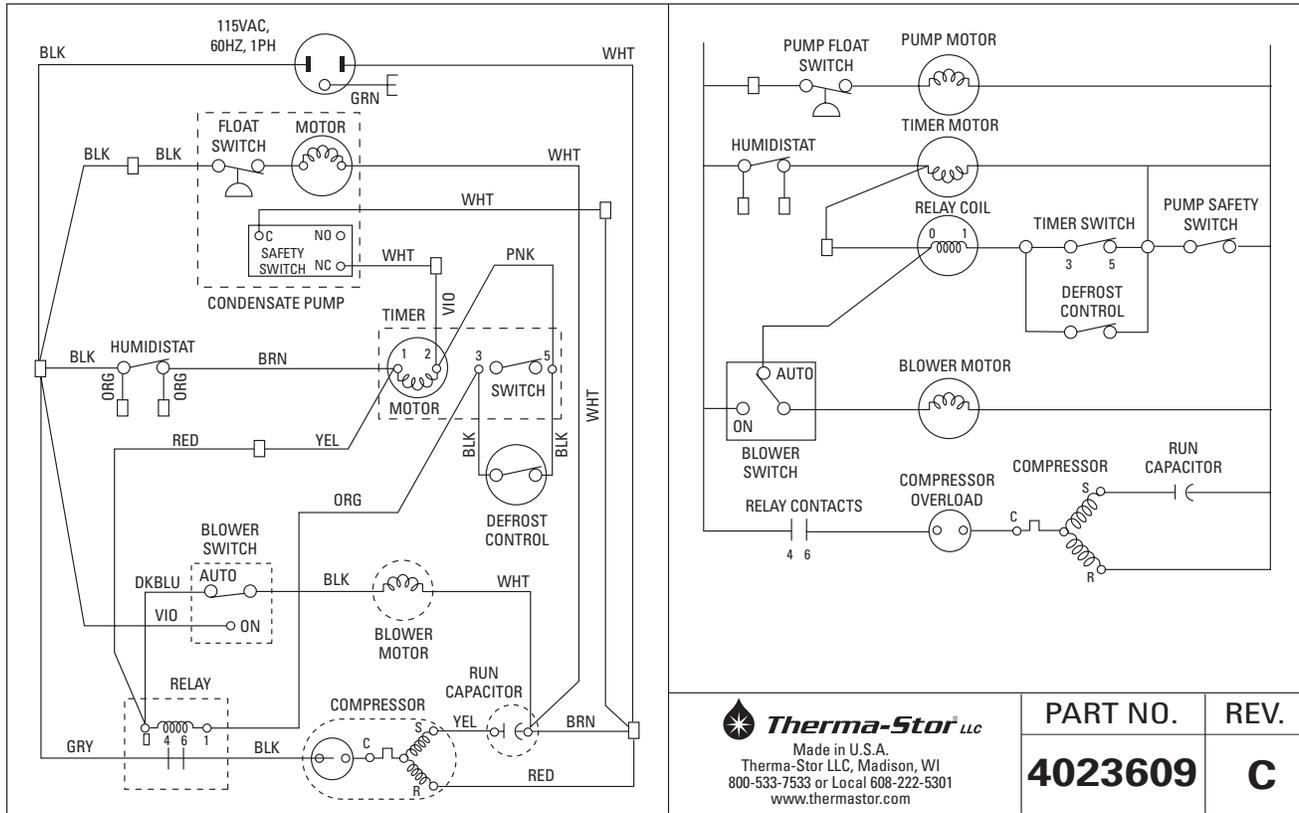


Figure 4: Electrical Schematic of HI-E Dry 195

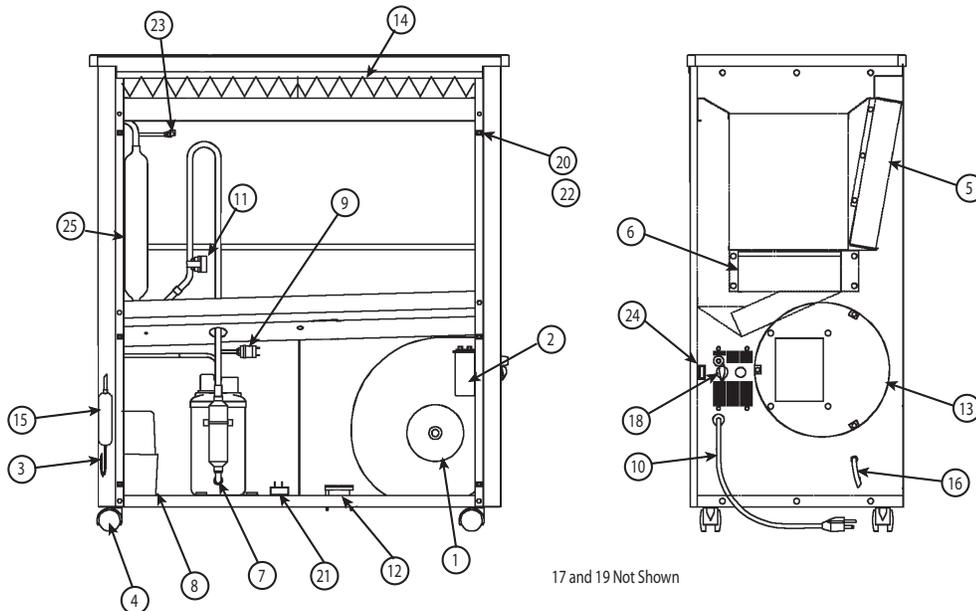
Therma-Stor LLC
 Made in U.S.A.
 Therma-Stor LLC, Madison, WI
 800-533-7533 or Local 608-222-5301
 www.thermastor.com

PART NO.	REV.
4023609	C



7. Service Parts: HI-E Dry 195 Dehumidifier

ITEM	PART NO.	QTY.	DESCRIPTION
1	4021083	1	Blower with Capacitor
2	4033032-06	1	Capacitor, Run, 50MFD, 370v
3	4021589	2	Capillary Tubes
4	4023604	4	Caster, 2", Plastic, Swivel
5	4028246	1	Coil, Condenser
6	4028245-02	1	Coil, Evaporator E-Coat
7	4030131	1	Compressor
	4030121	1	Compressor Overload
8	4023649	1	Condensate Pump
9	4029508	1	Control, Low Pressure
10	4023495	1	Cord & Wire Harness
11	4025741	1	Defrost Thermostat
	4021648	1	Defrost Thermostat Mounting Clip
12	4021823	1	Defrost Timer (4021823)
13	4023603	1	Duct Collar Kit, Optional
14	4021799	2	Filter, Air (2" X 16" X 16"), (Grainger P/N 6B958)
15	4025087	1	Filter/Drier
16	4017152	1	Hose, Drain, .38" x 20' long
17	4021503	1	Hose, Drain Pan, .56" ID x 16" long (not shown)
18	4027172	1	Humidity Controller
	4021495	1	Knob
19	4020175		Humidity Controller, Remote, Optional, (Honeywell H46C1000)
20	1096010	6	Machine Screw, Stainless Steel, 1/4-20 X 1" (for Front Cover)
21	1970010	1	Relay, SPDT (Omron G7L-1A-TUB-CB-AC100/120)
22	4023549	6	Self-Retaining Nut, 1/4-20
23	4020988	1	Service Valve Assembly w/ Core & Cap
24	4025560	1	Switch, SPDT, On-Off, for Fan
25	4021818	1	Accumulator
	4023609	1	Wiring Diagram (not shown)



17 and 19 Not Shown



8. ACCESSORIES: HI-E Dry 195 Dehumidifier

PART NO.	DESCRIPTION
4023684	Duct Collar Kit
4020175	Humidity Controller
4021799	Filter (2 Required)
4024750	12" x 25' Flex Duct



HI-E Dry 195 Dehumidifier Limited Warranty

Warrantor:

Therma-Stor LLC
4201 Lien Rd
Madison, WI 53704
Telephone: 1-800-533-7533

Who Is Covered: This warranty extends only to the original end-user of the HI-E Dry 195 dehumidifier, and may not be assigned or transferred.

Year One: Therma-Stor warrants that, for one (1) year the HI-E Dry 195 dehumidifier will operate free from any defects in materials and workmanship, or Therma-Stor will, at its option, repair or replace the defective part(s), free of any charge.

Year(s) Two Through Five: Therma-Stor further warrants that for a period of five (5) years, the condenser, evaporator, and compressor of the HI-E Dry 195 dehumidifier will operate free of any defects in material or workmanship, or Therma-Stor, at its option, will repair or replace the defective part(s), provided that all labor and transportation charges for the part(s) shall be borne by the end-user.

End-User Responsibilities: Warranty service must be performed by a Servicer authorized by Therma-Stor. If the end-user is unable to locate or obtain warranty service from an authorized Servicer, he should call Therma-Stor at the above number and ask for the Therma-Stor Service Department, which will then arrange for covered warranty service. Warranty service will be performed during normal working hours.

The end-user must present proof of purchase (lease) upon request, by use of the warranty card or other reasonable and reliable means. The end-user is responsible for normal care. This warranty does not cover any defect, malfunction, etc. resulting from misuse, abuse, lack of normal care, corrosion, freezing, tampering, modification, unauthorized or improper repair or installation, accident, acts of nature or any other cause beyond Therma-Stor's reasonable control.

Limitation and Exclusions: If any HI-E Dry 195 Dehumidifier part is repaired or replaced, the new part shall be warranted for only the remainder of the original warranty period applicable thereto (but all warranty periods will be extended by the period of time, if any, that the HI-E Dry 195 Dehumidifier is out of service while awaiting covered warranty service).

UPON THE EXPIRATION OF THE WRITTEN WARRANTY APPLICABLE TO THE HI-E Dry 195 DEHUMIDIFIER OR ANY PART THEREOF, ALL OTHER WARRANTIES IMPLIED BY LAW, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL ALSO EXPIRE. ALL WARRANTIES MADE BY THERMA-STOR ARE SET FORTH HEREIN, AND NO CLAIM MAY BE MADE AGAINST THERMA-STOR BASED ON ANY ORAL WARRANTY. IN NO EVENT SHALL THERMA-STOR, IN CONNECTION WITH THE SALE, INSTALLATION, USE, REPAIR OR REPLACEMENT OF ANY HI-E Dry 195 DEHUMIDIFIER OR PART THEREOF BE LIABLE UNDER ANY LEGAL THEORY FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES INCLUDING WITHOUT LIMITATION WATER DAMAGE (THE END-USER SHOULD TAKE PRECAUTIONS AGAINST SAME), LOST PROFITS, DELAY, OR LOSS OF USE OR DAMAGE TO ANY REAL OR PERSONAL PROPERTY.

Some states do not allow limitations on how long an implied warranty lasts, and some do not allow the exclusion or limitation of incidental or consequential damages, so one or both of these limitation may not apply to you.

Legal Rights: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

