# VAPORMIST and VAPORMIST DI

# **ELECTRIC STEAM HUMIDIFIERS**

Installation Instructions and Maintenance Operations Manual

For Toll-Free Technical Support, Call 1-800-328-4447



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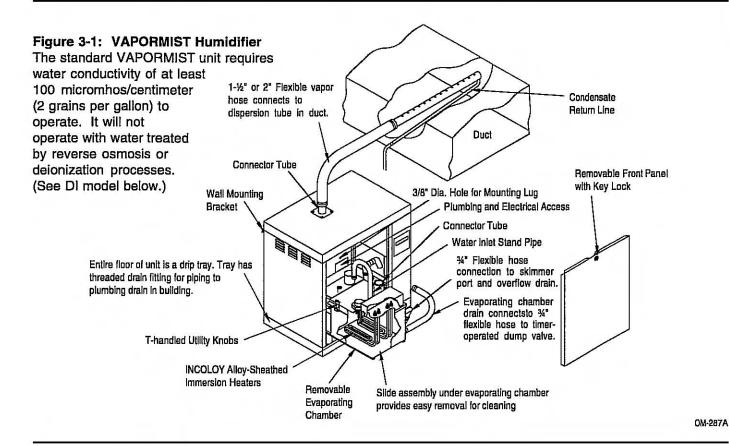
Thank you for purchasing our VAPORMIST® humidifier. We have designed and built this equipment to give you complete satisfaction and trouble-free service for many years. Familiarizing yourself with this manual will help ensure you proper operation of the equipment for years to come.

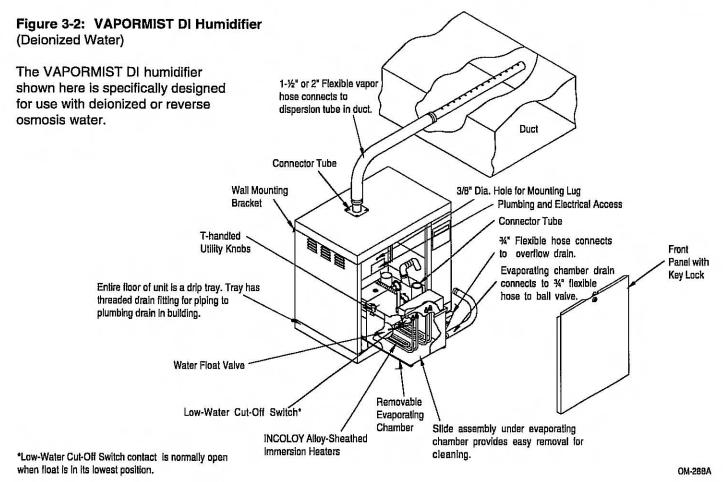
This manual covers the installation and maintenance procedures for both the VAPORMIST and VAPORMIST DI humidifiers.

#### **DRI-STEEM Humidifier Company**

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#### **VAPORMIST® DIAGRAMS**





#### INSTALLATION

# Locating and Mounting the VAPORMIST® Humidifier

The VAPORMIST humidifier is designed to hang on a wall, and should be installed in a space located near an air duct system.

Consider the following when selecting the location of the humidifier:

- · Convenient access to duct
- Electrical and plumbing connections
- Required clearances

The mounting location should provide a minimum clearance of 36" to the front and 24" to the right side of the unit. This clearance is required for removing the evaporating chamber and accessing electrical compartment.

Electrical power supply, water make-up piping and drain piping must also be considered. These service connec-

tions are made at the lower right rear corner of the unit.

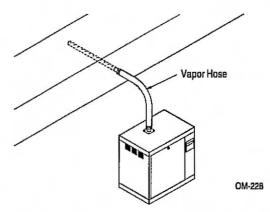
When mounting on a stud wall (studs 16" on center), locate studs and position mounting bracket in place so that each of the two holes (16" apart) will center on a stud. Mark hole locations and pre-drill 1/4" diameter pilot holes. Secure bracket to wall with lag bolts provided.

For hollow block or poured concrete wall mounting, position mounting bracket in place and mark the second hole from each end. Drill appropriate pilot hole for two 3/8" toggle bolts or two 3/8" machine bolt lead anchors. Secure bracket in place.

When the VAPORMIST humidifier is in final operation, the panel access keys should be removed and secured in a different place.

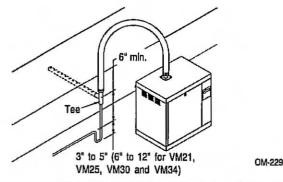
#### **Examples of Mounting the Dispersion Tube**

Figure 4-1: Mounted Horizontally in Duct



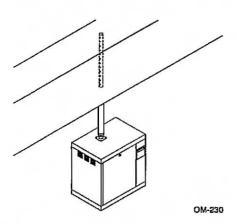
Vapor hose and dispersion tube should be pitched back to the humidifier with a gradual slope of 2" per foot (minimum). A single dispersion tube cannot be used with VM30 or VM34.

Figure 4-2: Mounted Horizontally in Duct and Lower than VAPORMIST Unit



A water seal must be located in drain line as shown to maintain steam pressure. A single dispersion tube cannot be used with VM30 or VM34.

Figure 4-3: Mounted Vertically (Optional)



This is not recommended on VM10, VM12, VM16, VM21, VM25, VM30 and VM34.

IMPORTANT NOTES: When duct is located more than 10 feet away from unit, vapor hose is not recommended; 1½" minimum I.D. hard pipe should be used instead. VM30 and VM34 must use a multiple tube steam dispersion system.

#### **INSTALLATION**

# VAPORMIST® Mounting Tube with Condensate Drain Line

- Mount dispersion tube level.
- Orient dispersion tube so that tubelets are pointed straight up.

# **Connecting Dispersion Tube to Humidifier**

- Connection can be made with vapor hose or hard piping.
- Hard piping should have a minimum I.D. of 1½".
- A minimum pitch of 2" per foot back to the humidifier should be maintained.
- Short sweep 90° elbows are not recommended; use two 45° elbows 12" apart or long sweep 90° elbows instead.
- Thin-walled tubing will heat up faster than heavy-walled pipe, causing less steam loss at start-up.
- Insulating hard piping will reduce the steam output loss caused by condensation.
- When mounting the humidifier above the level of dispersion tube, see figure 4-2 on page 4.

Failing to follow these recommendations may result in excessive back pressures being imposed on the humidifier. This may lead to dispersion tube(s) spitting, steam blowing through water seals, or leaking gaskets. When the distance between humidifier and the dispersion tube(s) exceeds 20 feet, consult factory for recommendations.

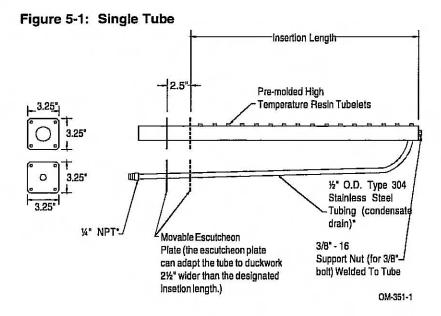
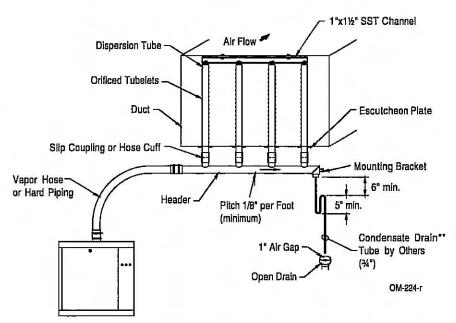


Figure 5-2: RAPID-SORB® with Condensate Wasted to Floor Drain



<sup>\*</sup>½" diameter condensate tubing is not needed nor provided when steam flow is 34 lbs per hour or less per dispersion tube. A minimum pitch of 2" per foot back to the humidifier should be maintained.

Minimum condensate return line sizing:

- One or two tubes 1/2" I.D.
- Three or more tubes 3/4" I.D.

<sup>\*\*</sup>Note: Condensate drain tubing material must be suitable for 212°F (100°C) water.

#### PIPING AND WIRING

Water make-up piping may be of any code-approved material (copper, steel, or plastic). The final connection size is 1/4" NPT. In cases where water hammer may be a possibility, a shock arrestor should be considered.

Drain piping may be of any code-approved material (copper, steel, or plastic rated for 212°F minimum). If drainage by gravity is not possible, a small lift pump should be used. (DRI-STEEM part #400280.)

The final connection sizes are 3/4" copper sweat drain fitting and 1/2" NPT for cabinet drain. These connection sizes should not be reduced. (See figures 6-1 and 6-2 for proper drain piping configurations.) The evaporator drain and cabinet drain should be piped separately to and discharge into a floor drain. Combining the two drain pipes into a single drain line may result in the backflow of drain water into the humidifier cabinet, causing the unit to malfunction.

Figure 6-1: Drain Adjacent to Wall

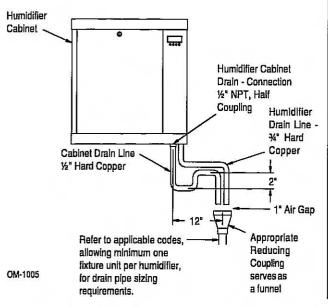
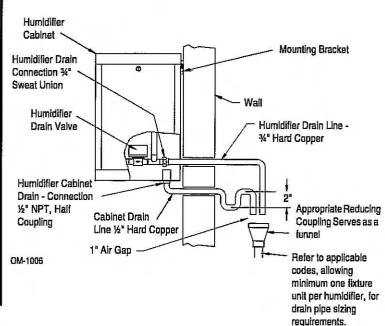


Figure 6-2: Drain Through or in Wall



Note: Locate the cabinet drain line exit away from the humidifier drain line exit, if possible. This will prevent water vapor from migrating up the cabinet drain line, causing the cabinet bottom to rust. Extending the cabinet drain line may be effective also.

#### WIRING

All wiring must be in accordance with all governing codes, and with the VAPORMIST® or VAPORMIST DI wiring diagram. The diagram is located inside the removable front panel on the right-hand side of the humidifier cabinet.

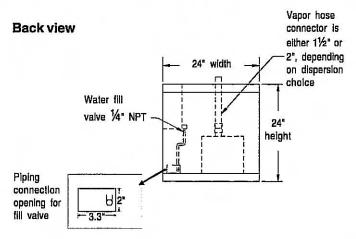
#### **ELECTRICAL SPECIFICATIONS AND CAPACITIES/DIMENSIONS**

Table 7-1: Electrical Specifications and Capacities

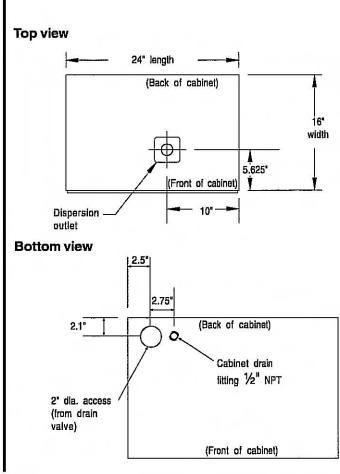
	VM2	VM4	VM6	VM8	VM10	VM12	VM16	VM21	VM25	VM30	VM34
Output per hour lb/gal/kg	6/.7/2.7	12/1.4/5.4	18/2.2/8.2	24/2.9/10.9	30/3.6/13.6	36/4.4/16.3	50/6/22.7	64/7.7/29,0	75/9.1/34.0	91/10.9/41.4	102/12.4/46.2
Operating wt. lbs/kg	127/5B	133/60	155/70	156/71	156/71	160/73	160/73	172/78	172/78	181/82	181/82
Shipping wt. lbs/kg	104/47	110/50	115/52	116/53	116/53	119/54	119/54	125/57	125/57	135/61	135/61
Amps @ 120v/1ø	16,7	33.3	-	-	-		-	_	:—a	_	-
*208v/1ø/3 wire	9.6	19.2	28.8	38.5	-			-		-	-
*240v/1ø/3 wire	8,3	16.7	25.0	33.3	41.7		_	-	1 <b>-</b> g	_	-
480v/1ø	4.2	8.3	12.5	16.7	20.8	25.0	33.3	43.8	-	-	
600v/1ø	3.3	6.7	10.0	13,3	16.7	20.0	26.7	35.0	41.7	<del>=</del>	
*208v/3ø/4 wire	-	16.7**	25,0**	**8,66	29.1**	33,3	44.4	-	-	_	-
*240v/3ø/4 wire	-	14.4**	21.7**	28.9**	25.3**	28.9	38.5	-	Е:	_	<u>-</u>
480v/3ø	-	7.2**	10.8**	14.4**	12,6**	14.4	19.2	25.3	30.1	36.1	40.9
600v/3ø		5.8	8.7	11.5	10.1	11.5	15.4	20,2	24.1	28.9	32.7
ĸw	2	4	6	В	10	12	16	21	25	30	34

<sup>\*</sup> On 208/240 single-phase (3-wire) and 3-phase (4-wire) supplies, the neutral line may be utilized for 120 volt when used in conjunction with SDU fan unit.

Figure 7-1: VAPORMIST Unit Dimensions



**Note:** For models VM12-34 dispersion tubes will be equipped with a condensate tube when a hose kit is used. See pages 4 and 5 for installation details.



<sup>\*\*</sup> For wire sizing, the highest leg draw is shown due to current unbalance in some cases. All VAPORMISTs operate at 50/60 Hz.

## AREA-TYPE APPLICATION USING SPACE DISTRIBUTION UNIT (SDU)

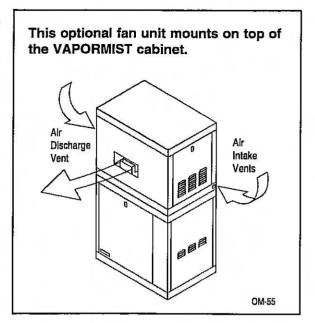
The SDU converts a VAPORMIST® duct humidifier into an area-type humidifier. Instead of the steam dispersion tube being located inside an air duct, the dispersion tube is built into the fan unit. A fan draws in room air and blows it across the dispersion tube, where it disperses the moisture into the room. The space distribution unit can be used on all models.

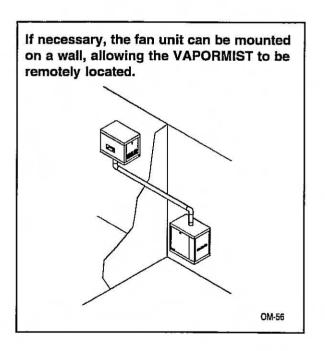
#### **Mounting the SDU**

The SDU may be placed directly on top of the VAPORMIST cabinet or mounted on a wall. A wall mounting bracket and two 3/8" lag bolts are provided with each fan unit. (See page 4 for mounting instructions.)

#### Rise and Throw

As steam is discharged from the humidifier, it quickly cools and turns to a visible fog that is lighter than air. As this fog is carried away from the humidifier by the airstream, it tends to rise toward the ceiling. If this fog contacts solid surfaces (columns, beams, ceiling, pipes, etc.) before it disappears, it could collect and drip as water. The greater the space relative humidity, the higher and farther the fog will rise and throw before disappearing. The distances the fog travels before it disappears are given in table 9-1 on page 9.





#### AREA-TYPE APPLICATION USING SDU

Table 9-1 lists the recommended minimum vertical (RISE), horizontal (THROW), and width (SPREAD) clearances for SDU area-type humidifiers at 40%, 50% and 60% RH in the space.

The SDU contains a 435 cfm blower (120/1/60) wired independently of the VAPORMIST humidifier. A wiring diagram of the SDU is included with the unit.

On a call for humidity, the humidifier will begin producing steam and the start relay will energize the SDU blower. When the steam reaches the SDU, a time-delay switch is activated. The humidifier will continue to produce steam until the humidistat is satisfied. The blower will continue to run until the time-delay switch shuts it off.

Once the SDU is mounted, panel access keys should be removed and secured elsewhere.

1" Air Gap

W" FPT Drain Connection

Drain Line (Not Supplied by DRI-STEEM)

6" Minimum

3-5" Water Seal

Open Drain

Figure 9-1: SDU Drain Detail

Table 9-1: SDU Visible Fog Travel

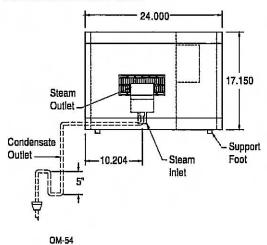
Humidifler	40	)% RH@ 7	0"F	50% RH@ 70"F			60% RH@ 70°F		
Size	Rise (ft/m)	Throw (ft/m)	Spread (ft/m)	Rise (ft/m)	Throw (ft/m)	Spread (ft/m)	Rise (ft/m)	Throw (ft/m)	Spread (ft/m)
VM4	1.0/.30	5.0/1.5	1.0/.30	1.5/.50	6,5/2,0	1.5/.50	2,5/.80	7.5/2.3	2.5/.80
VM6	1.0/.30	5.0/1.5	1.0/.30	1.5/.50	6.5/2.0	1,5/.50	2.5/.80	7.5/2.3	2.5/.80
VM8	1.0/.30	5.5/1.7	1.0/.30	1.5/.50	6.5/2.0	1.5/.50	2.5/.80	7.5/2.3	2.5/.80
VM10	1,5/.50	6.0/1.8	1.5/.50	2.0/.60	7.0/2.1	2.0/.60	3.0/1.0	8.0/2.5	3.0/1,0
VM12	1.5/.50	5.0/1.8	1.5/.50	2.0/.60	7.0/2.1	2,0/,60	3,0/1.0	8.0/2.5	3.0/1.0
VM16	2.0/.60	7.0/2.1	2.0/.60	2.0/.60	7.0/2.1	2.0/.60	3.0/1.0	9.0/2.7	3.0/1.0
VM21	2,0/,60	7.5/2.3	2.0/.60	2.0/.60	10/3.0	2.0/.60	3.0/1.0	12.0/3.7	3,0/1,0
VM25	2.0/.60	8.0/2.5	2.0/.60	2.5/,80	10.5/3.2	2,5/.80	3.5/1.1	12.5/3.8	3.5/1.1
VM30	2.0/.60	8.0/2.5	2.0/.60	2.5/.80	10.5/3.2	2.5/.80	3.5/1.1	12.5/3.8	3.5/1.1
VM34	2.0/.60	8.0/2.5	2.0/.60	2.5/.80	10.5/3.2	2.5/.80	3.5/1.1	12.5/3.8	3.5/1.1

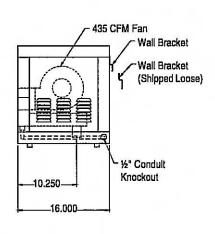
#### Table 9-1 Notes:

Table 9-1 states the vertical (rise), horizontal (throw), and width (spread) dimensions that can be expected with the AREA-TYPE humidifiers.

Surfaces cooler than ambient or objects directly in the path of visible fog discharge may cause condensation and dripping.

Figure 9-2: SDU Mechanical Detail





#### START-UP AND OPERATION

#### Introduction

After the system has been properly installed and connected to both electrical and water supplies, it may then be started.

#### Start-up and Checkout Procedures Mounting

Check mounting to see that the unit is level and securely supported before filling with water.

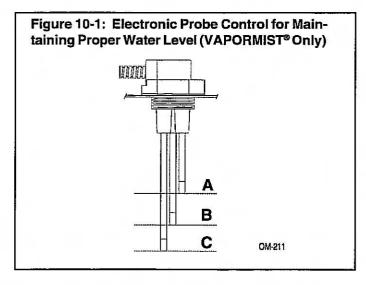
#### **Piping**

Verify that all piping connections have been completed as recommended and that water pressure is available.

#### Electrical

Verify that all wiring connections have been made in accordance with all governing codes and the enclosed VAPORMIST® wiring diagram.

### Caution: Only qualified electrical personnel should perform start-up procedure.



A simple three-probe conductivity sensor cycles a solenoid-operated water fill valve to maintain the proper water levels.

VAPOR-LOGIC® control
The VAPOR-LOGIC is the standard controller for the VAPORMIST. For more information regarding the operation of the VAPOR-LOGIC, microprocessor, see the VAPOR-LOGIC, Installation Instructions and Operations Manual.

#### VAPORMIST®

#### Make-up Water Piping

Use cold or hot make-up water. If the water pressure is above 60 psi and/or water hammer would be objectionable, a pressure-reducing valve or shock arrester should be installed. Even though the VAPORMIST has an internal 1" air gap, some local codes may require a vacuum breaker.

Important: Minimum water supply pressure is 25 psi.

#### VAPORMIST DI

#### Make-up Water Piping

In this unit the electronic probe control is replaced by a float valve and a float operated low water cut-off switch.

The basic water level system and circuit for heater protection in the event of a low-water condition is common to all DI humidifiers and can be found in the wiring diagram located inside the removable front panel on the right-hand side of the unit.

#### Control Circuit

- a) Adjust humidistat to "call" setting.
- b) Open shut-off valve on water supply line. Unit should begin filling with water through the fill valve.
- c) Shortly before the fill valve shuts off, the heater cutoff switch will "make". When this switch makes, the heating element contactor(s) will be actuated after a ten-second delay. A time delay relay prevents contactor chatter due to bouncing of heater cut-off float.
- d) Check heater cut-off circuit.
  - Close manual stop valve on water supply.
  - Open ball valve and start draining unit.
  - When water level drops past switching level on the heater cut-off float, the heating element contactor will drop out.
  - 4. When step 3 has been satisfactorily completed, close drain valve.
- e) Check function of field-installed safety controls. such as the fan proving switch. Contactor should drop out when any proving switch is "open".
- f) Check heater draw by testing and recording voltage and amperage in each phase. Readings should match name plate readings; name plate is located on the humidifier housing.
- Inspect installations for steam or air leaks while operating the VAPORMIST. Any leaks should be sealed.

#### MAINTENANCE

#### **VAPORMIST®**

#### Mineral Precipitate

As evaporation takes place in a standard VAPORMIST unit, the minerals dissolved in the water come out of solution and a portion of these minerals float on the water surface. If not removed, these minerals will eventually form a sludge and settle to the bottom of the evaporating chamber.

Cleaning once or twice a season is usually adequate, assuming the water has a hardness of up to 15 grains per gallon.

To dramatically reduce mineral accumulation inside the evaporating chamber use softened water for make-up water source. Using softened water will reduce cleaning frequency to once every several years in most cases.

#### **Cleaning the Evaporating Chamber**

The heating element itself is self cleaning. The mineral buildup on the element flakes off after reaching a thickness of about 1/16", and settles to the bottom of the chamber.

**Note:** Before this scale accumulation builds up to the underside of the heating element, it must be removed. Failure to do so may result in premature heater burn-out.

#### To Service:

- Shut off electrical power to the unit. Using the key, unlock and remove the large front panel. Drain the evaporating chamber by manually opening the "DRAIN" valve. Open the lever on the valve to the "MANUAL" position and lock in place.
- Disconnect the connector tube on top of the evaporating chamber, the flexible hose from the overflow pipe, and the flexible hose from the drain. Install a rubber plug into tank drain nipple. All plumbing connections should be removed from the evaporating chamber. NOTE: DO NOT DISCON-NECT THE FLEXIBLE ELECTRICAL POWER CONDUIT.
- Disconnect tank-grounding wire.
- Slide the evaporating chamber out of the unit on the sliding track. Remove the cover of the chamber. (Covers on VM2-16 slide into holding slots, covers on VM21-34 need to simply be set aside.)
- Remove the evaporating chamber, dump out mineral residue.

- Unscrew the probe housing, and remove any mineral build-up accumulated in the housing.
- Clean the probe-rod assembly. Scrape off build-up on rods, and brush with sand paper or steel wool off tips to remove mineral residue.
- 8. Replace chamber onto the sliding track.
- Secure the chamber cover making sure the chamber is sealed. Push chamber back into the unit on the slide track.
- Reconnect the tube and slip coupling, the overflow hose, the drain hose, and connect tank-grounding wire.
- 11. Move drain valve lever back to "AUTO".
- Replace the front panel and lock. Turn on the electric power. VAPORMIST is again ready to humidify.

#### Off Season Shut-Down

- 1. Switch off electrical power.
- Shut off water supply to make-up valve.
- 3. Drain evaporation chamber, and clean if necessary (see "Cleaning the Evaporating Chamber" above).
- Leave chamber dry, the power "OFF," and the water shutoff valve closed until the next humidification season.

#### **VAPORMIST DI**

The VAPORMIST DI unit uses DI/RO water. Because these water types are mineral-free, cleaning the evaporating chamber should not be necessary. However, there are some simple maintenance steps that should be followed to ensure all parts of the unit are in good working order.

#### To Service:

- 1. Shut off electric power.
- 2. Shut off water supply to make-up valve.
- 3. Unlock and remove front panel.
- 4. Make sure the evaporating chamber is drained by manually opening the drain valve.
- Check the condition of the overflow and drain hoses.

#### MAINTENANCE

- Remove the evaporating chamber as follows:
   Disconnect the flexible connector tube on top of the evaporating chamber, the flexible overflow hose, and the flexible drain hose. All connections should be removed at the evaporating chamber. DO NOT DISCONNECT ANY OF THE ELECTRICAL CONDUITS.
- Slide the evaporating chamber forward on the track. Remove the cover of the chamber. (Covers on VM2-16 slide into holding slots, covers on VM21-34 need to simply be set aside.)
- 8. Check operation of the float valve, inspect valve seat and heater cut-off.
- Inspect the heating elements. Replace if inoperative.
- Inspect the evaporating chamber. Clean if necessary.
- Replace the chamber cover and slide chamber back into unit.

- 12. Reconnect connector tube and flexible hoses.
- 13. Return drain valve handle to closed position.
- 14. Replace front panel and turn on electric power.
- 15. VAPORMIST DI is again ready to humidify.

#### Off-Season Shut-Down Procedure

- 1. Switch off electric power.
- Remove front panel.
- 3. Shut off water supply to make-up valve.
- 4. Drain evaporating chamber by manually opening the drain valve.
- 5. Replace front panel.
- Leave chamber dry, power off, and water shut off valve closed until the next humidification season.

# VAPORMIST® TROUBLE-SHOOTING GUIDE

2007	CON	NTROL PA LIGHT	7707.7		
PROBLEM	FILL	READY WATER	DRAIN	POSSIBLE CAUSE	RECOMMENDED ACTION
Humidifier will not heat	Off	Off	Off	Control transformer	Verify control voltage across secondary leads of transformer. Reset transformer circuit breaker.
	Off	On	Off	Humidistat is not calling	Set humidistat to call. Inspect for faulty humidistat.
				Safety controls open	Check safety controls, air flow switch, high limit humidistat, etc.
	Ė			Faulty control board	Verify control voltage between terminals H & N.
				Probe head deterioration*	Replace probe head.
-lumidifier will	On	Off	Off	No water pressure at valve.	Check water supply/shut off valves.
not fill	3 1 1			Faulty water fill valve	Verify action of fill water solenoid valve by turning control module switch from standby to normal op. Audible click should be heard as solenoid operates.
				Plugged strainer	Check strainer.
				Plugged valve	Check valve.
				Faulty control board	Verify control voltage across terminals H & N.
Humidifier does not stop filling	On	Off	Off	Lack of tank to probes electrical continuity. Water conductivity 100 micromhos/cm (2 gr/gal) min.	Jumper wires brown to yellow. If water stops, verify tank ground; check water supply conductivity; then consult factory.
				Fill valve is stuck open	Check valve for foreign matter.
				Drain Valve not closed Fill valve installed backward	Check for correct water flow, through valve, note arrow.
	Ол	Off	On	Auto-drain mode	10 Minute must complete first.
_ow output	Off	On	Off	Electric drain valve not seating	Correct cause of leakage or replace valve.
	Off	On	Off	Fill valve is stuck open	Check valve for foreign matter.
Unit short cycles	On & Off	On	Off	Probes may be incorrectly wired or need cleaning	Confirm that unit is wired per diagram. Clean probe rod tips with steel wool.
Reduced or no putput even water sat the proper evel	Off	On	Off	Heater malfunctioning	Verify that proper voltage is being applied to heaters. Check heater (amp draw and compare to wiring diagram ratings.
<b>570</b> 1				Malfunctioning control system	Heater contactor not functioning replace. Service fuses blown. Auxiliary limit controls not allowing system to operate (dust humidista air flow proving switch, etc.). Reset, replace o calibrate as required. Faulty or inaccurate

# VAPORMIST® DI TROUBLE-SHOOTING GUIDE

PROBLEM	READY WATER	POSSIBLE CAUSE	RECOMMENDED ACTION
Humidifier will not heat	Off	Control transformer	Verify control voltage across secondary leads of transformer. Reset transformer circuit breaker.
		Humidistat is not calling	Set humidistat to call. Inspect for faulty humidistat.
		Safety controls open	Check safety control. Air flow switch, high limit humidistat, etc.
		Low water float switch	Verify control voltage from float switch and transformer secondary common.
Humidifier will not fill	Off	No water pressure at valve	Check manual water supply. Valve, minimum 25 psi water pressure.
		Malfunctioning water float valve	Check to make sure that valve float & steam moves freely.
		Plugged float valve	Check float valve seat.
Water float valve does not close	ve does not		Obstruction in drain valve will not allow complete closure, clean or replace valve.
Ciose		Manual drain valve not	Close drain valve.
		Malfunctioning float valve	Float ball has water leak. Float valve seat defective, replace.
		Water passing into overflow stand pipe	Readjust float valve rod, so water level reaches 1/4-3/8" from over flow edge when water is at ambient or cold state. Excessive water pressure, 100 psi maximum.
		Float valve stuck	Obstruction will not allow float valve to seat properly, clean or replace with new seat.
Reduced or no output even though water is	On	Heater malfunctioning	Verify that proper voltage is being applied to heaters. Check heaters (amp draw and compare to wire diagram ratings)
at the proper level		Malfunctioning control system	Heater contactor not functioning, replace. Service fuses blown. Auxiliary limit controls not allowing system to operate (duct humidistat, air flow proving switch, etc.). Reset, replace or calibrate as required. Faulty or inaccurate humidistat, replace or calibrate.
		Time delay/interlock relays  Low water cut-off switch	On delay relay delay time 10-15 seconds. Check relays  Check for proper operation.

Table 15-1: Space Distribution Unit (SDU)

No.	Description	Qty.	Part No.
1	Dispersion Chamber Weld, 1½"	1	160441
1	Dispersion Chamber Weld, 2"	1	160442
2	Protective Bumpers	4	310170
3	Door Weldment	2	160430-100
4	Lock, Cabinet Door	2	700700
5	Nut Retainer Assy, ¼" - 20	4	700650
6	Blower, 296/435 CFM	1	409540-001
7	Wall Bracket	1	160150-101
8	Plug, ¼" NPT Yellow Brass	1	203570

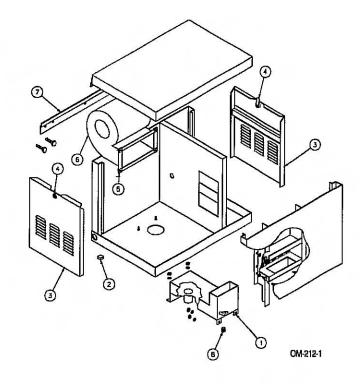
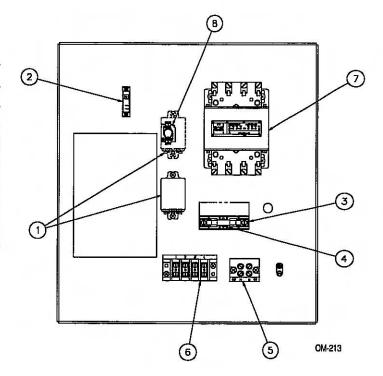


Table 15-2: SDU Subpanel

No.	Description	Qty.	Part No.
1	Relay, 2-Pole 24V	1	407900-001
2	Time delay 24V	1	408440-001
3	Fuse Holder, Single Pole	1*	407450-002
4	Fuse, 3 amp	1*	406740-006
5	Terminal Block, 2 pt pressure contact	1	408300-001
6	Terminal Block, 4 pt	1	408250-001
7	Transformer	1**	408991/408992
8	Relay, Thermostatic	1	409598



<sup>\*</sup> With 480V or 575V, use quantity (2).
\*\* Refer to individual order for correct selection.

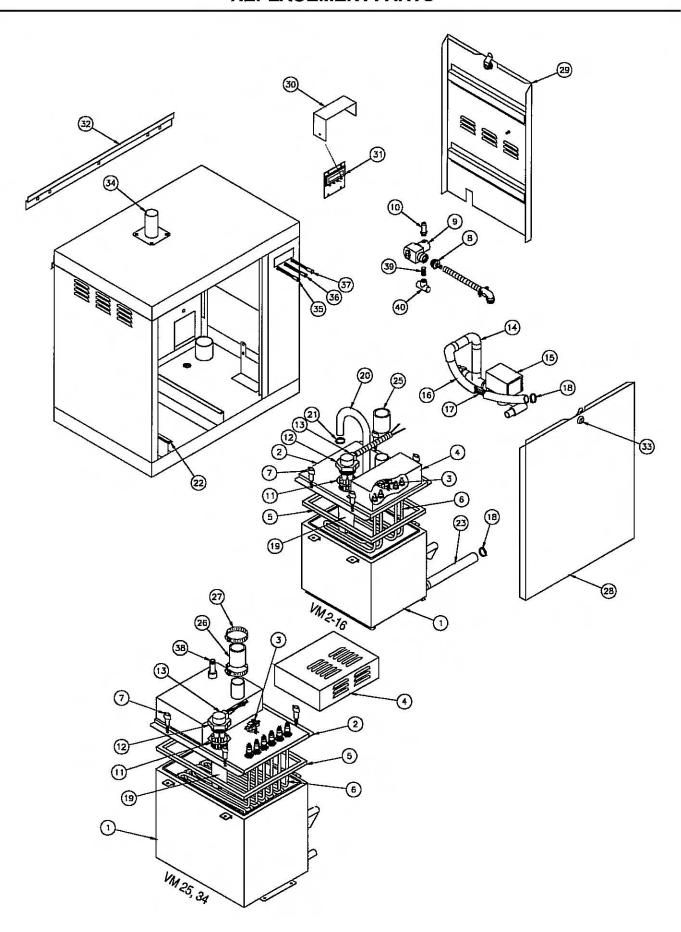


Table 17-1: VAPORMIST (see drawing on page 16)

No.	Description	Qty.	Part No.
1	Tank	. 1	160012*
2	Cover	1	*
3	Thermo Cut-Out	1	409560-001
4	Cover, Heater Terminal	1	160750*
5	Gasket, Cover	1	160695*
6	Heater	•	409600*
7	Knob, T-Handled Utility	4	700725
8	Connector, 3/8" flex.	1	407127-038
9	Valve, ¼" Solenoid Fill	1	505084
10	Orifice, Fill Valve	1	160227*
11	Gasket, Probe	1	309750-003
12	Probe Assembly	1	*
13	Probe Plug Wire Assembly, 24"	1	406050*
14	Drain Assembly	1	180520*
15	Valve, ¾" Electric Drain	1	505400-050
16	Hose, Overflow	ft*	307020-002
17	Spring, Overflow Hose	1	307025
18	Hose Clamp, ¾" ID	4	700560-075
19	Probe Housing, Nylon	1	308500
20	Hose, 1/2" Fill (21" Long)	1.75 ft	307020-001
21	Hose Clamp, 1/2" ID	2	700560-050
22	Duro Strip, 11" Nylon	2	309980
23	Hose, Drain	fi*	307020-002
24	Stopper, Rubber (not shown)	1	309960
25	Slip Coupling with O-Rings, 1½" (VM 2-16)	1	162726-001
26	Hose Cuff, 2" ID x 3" (VM 21- 34)	1	305391-003
27	Hose Clamp, 2" ID (VM 21-34)	2	700560-200
28	Panel Weld, Front	1	160310-100
29	Cover Weld, Electrical	1	160320-100
30	Bracket, Electrical Cover Key Lock	1	120746
31	Display Board, LW440 (VL2)	1	408651
32	Wall Bracket	1	160150-101
33	Lock, Key	2	700700
34	Connector Weld	1**	160350*
35	Light, Amber (FILL)	1	409520-003
36	Light, Green (READY WATER)	1	409520-002
37	Light, Red (DRAIN)	1	409520-001
38	Nipple, 14" NPT x 2" (VM 21-34)	1	250210-002
39	Nipple, ¼" NPT Brass Close (VM 2-16)	1	250013
40	Strainer, ¼" NPT Sediment	1	300050

<sup>\*</sup> Specify humidifier model and serial numbers when ordering. \*\* Shipped loose except with bonding bracket.

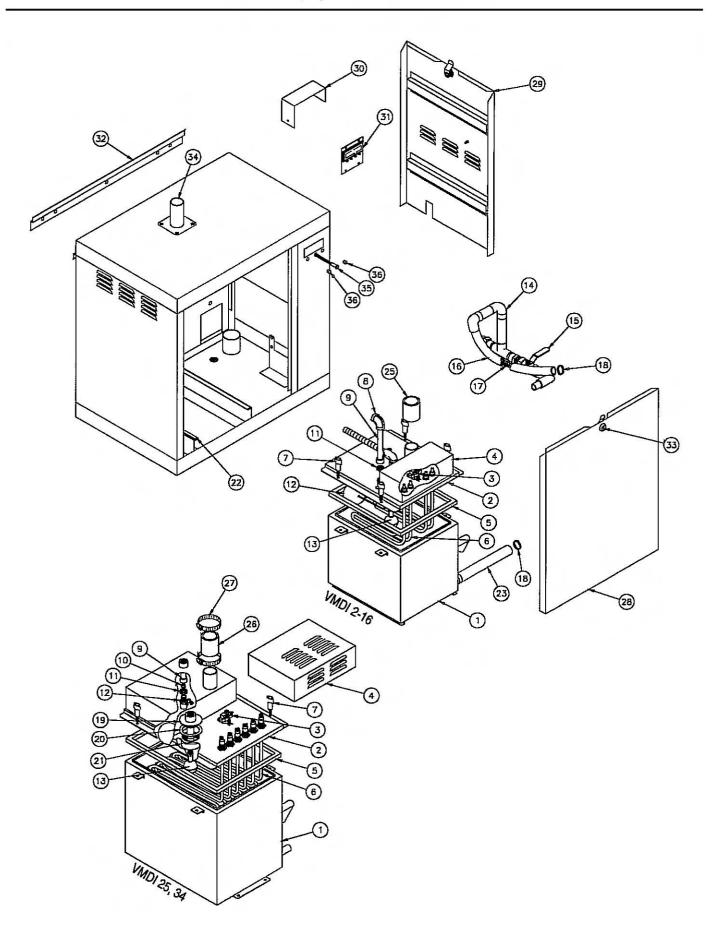


Table 19-1: VAPORMIST DI (see drawing on page 18)

1       Tank       1       160012*         2       Cover       1       *         3       Thermo Cut-Out       1       409560-001         4       Cover, Heater Terminal       1       160750*         5       Gasket, Cover       1       160895*         6       Heater       *       409600*         7       Knob, T-Handled Utility       4       700725         8       Elbow, ¾* 90* (VMDI 2-16)       1       200580         9       Pipe Weld, Fill Valve       1       160229*         10       Orifice, Fill Valve       1       160229*         11       Seal Ring, ¾* 18 NPT       1       306365         12       Float Valve Assembly       1       408420-001         13       Float Switch, Stainless Steel LWCO       1       408420-001         14       Drain Assembly       1       180450*         15       Valva, ¾* Stainless Steel Ball       1       505000-001         16       Hose, Overflow       ft* 307020-002         17       Spring, Overflow Hose       1       307025         18       Hose Clamp, ¾* ID       4       700560-075         19       DI Conversion W	No.	Description	Qty.	Part No.
Thermo Cut-Out  Thermo Cut-Out  Cover, Heater Terminel  Gasket, Cover  Heater  Knob, T-Handled Utility  Hose Clamp, 11 160695°  Float Valve Assembly  Tolarin Assembly  Tolari	1	Tank	1	160012*
4 Cover, Heater Terminal 1 160750* 5 Gasket, Cover 1 160695* 6 Heater - 409600* 7 Knob, T-Handled Utility 4 700725 8 Elbow, ¼* 90* (VMDI 2-16) 1 200580 9 Pipe Weid, Fill Valve 1 160229* 10 Orifice, Fill Valve 1 160229* 11 Seal Ring, ¼* 18 NPT 1 306365 12 Float Valve Assembly 1 * 13 Float Switch, Stainless Steel LWCO 1 408420-001 14 Drain Assembly 1 180450* 15 Valve, ¾* Stainless Steel Ball 1 505000-001 16 Hose, Overflow fi* 307025-002 17 Spring, Overflow Hose 1 307025 18 Hose Clamp, ¾* ID 4 700560-075 19 DI Conversion Weld, (VMDI 21, 34) 1 167786 20 Gasket, (VMDI 25, 34) Conversion Weld 1 160698 21 DI Housing, Nylon 2 309980 23 Hose, Drain 6 307020-002 24 Stopper, Rubber (not shown) 1 309960 25 Silp Coupling with O-Rings, 1½* 1 162726-001 26 Hose Cuff, 2* ID x 3* (VMDI 21-34) 1 1603391-003 27 Hose Clamp, 2** ID (VMDI 21-34) 2 700560-200 28 Panel, Front Weld 1 160310-100 29 Cover, Electrical Weld 1 160320-100 30 Bracket, Electrical Cover Key Lock 1 120746 31 Display Board, LW440 (VL2) 1 408651 32 Wall Bracket 1 160350* 33 Lock, Key 1 700700 34 Connector Weld 1** 160350*	2	Cover	1	•
5 Gasket, Cover 1 160695* 6 Heater 2 409600* 7 Knob, T-Handled Utility 4 700725 8 Elbow, ¾* 90* (VMDI 2-16) 1 200580 9 Plpe Weld, Fill Valve 1 * 10 Orifice, Fill Valve 1 160229* 11 Seal Ring, ¾* 18 NPT 1 306365 12 Float Valve Assembly 1 * 13 Float Switch, Stainless Steel LWCO 1 408420-001 14 Drain Assembly 1 180450* 15 Valve, ¾* Stainless Steel Ball 1 505000-001 16 Hose, Overflow 1 307025 17 Spring, Overflow Hose 1 307025 18 Hose Clamp, ¾* ID 4 700560-075 19 DI Conversion Weld, (VMDI 21, 34) 1 167786 20 Gasket, (VMDI 25, 34) Conversion Weld 1 160598 21 DI Housing, Nylon 2 309980 23 Hose, Drain 1 167780 24 Stopper, Rubber (not shown) 1 309960 25 Silp Coupiling with O-Rings, 1½* 1 162726-001 26 Hose Cuff, 2* ID x 3* (VMDI 21-34) 1 1630391-003 27 Hose Clamp, 2* ID (VMDI 21-34) 2 700560-200 28 Panel, Front Weld 1 160310-100 29 Cover, Electrical Weld 1 160320-100 30 Bracket, Electrical Cover Key Lock 1 120746 31 Display Board, LW440 (VL2) 1 408651 32 Wall Bracket 1 160350* 33 Lock, Key 1 700700 34 Connector Weld 1**	3	Thermo Cut-Out	1	409560-001
6         Heater         * 409600*           7         Knob, T-Handled Utility         4 700725           8         Elbow, ¼* 90° (VMDI 2-16)         1 200580           9         Pipe Weld, Fill Valve         1 *           10         Orifice, Fill Valve         1 160229*           11         Seal Ring, ¾* 18 NPT         1 306365           12         Float Valve Assembly         1 *           13         Float Switch, Stainless Steel LWCO         1 408420-001           14         Drain Assembly         1 180450*           15         Valve, ¾* Stainless Steel Ball         1 505000-001           16         Hose, Overflow         ft* 307025-002           17         Spring, Overflow Hose         1 307025           18         Hose Clamp, ¾* ID         4 700560-075           19         DI Conversion Weld, (VMDI 21, 34)         1 160786           20         Gasket, (VMDI 25, 34) Conversion Weld         1 160698           21         DI Housing, Nylon         2 309980           22         Duro Strip, 11* Nylon         2 309980           23         Hose, Drain         ft* 307020-002           24         Stopper, Rubber (not shown)         1 162726-001           25 <td< td=""><td>4</td><td>Cover, Heater Terminal</td><td>1</td><td>160750*</td></td<>	4	Cover, Heater Terminal	1	160750*
7       Knob, T-Handled Utility       4       700725         8       Elbow, ¾* 90° (VMDI 2-16)       1       200580         9       Plpe Weld, Fill Valve       1       *         10       Orifice, Fill Valve       1       160229*         11       Seal Ring, ¾* 18 NPT       1       306365         12       Float Valve Assembly       1       408420-001         14       Drain Assembly       1       408420-001         14       Drain Assembly       1       180450*         15       Valve, ¾* Stainless Steel Ball       1       505000-001         16       Hose, Overflow       ft*       307020-002         17       Spring, Overflow Hose       1       307025         18       Hose Clamp, ¾* ID       4       700560-075         19       DI Conversion Weld, (VMDI 21, 34)       1       167786         20       Gasket, (VMDI 25, 34) Conversion Weld       1       160598         21       DI Housing, Nylon       1       167780         22       Duro Strip, 11* Nylon       2       309980         23       Hose, Drain       ft*       307020-002         24       Stopper, Rubber (not shown)       1	5	Gasket, Cover	1	160695*
8 Elbow, ¾ 90° (VMDI 2-16) 1 200580 9 Plpe Weld, Fili Valve 1 1 60229° 11 Seal Ring, ¾ 18 NPT 1 306365 12 Float Valve Assembly 1 ° 13 Float Switch, Stainless Steel LWCO 1 408420-001 14 Drain Assembly 1 180450° 15 Valve, ¾ Stainless Steel Ball 1 505000-001 16 Hose, Overflow 1 307025-002 17 Spring, Overflow Hose 1 307025 18 Hose Clamp, ¾ ID 4 700560-075 19 DI Conversion Weld, (VMDI 21, 34) 1 167786 20 Gasket, (VMDI 25, 34) Conversion Weld 1 160698 21 DI Housing, Nylon 1 167780 22 Duro Strip, 11" Nylon 2 309980 23 Hose, Drain 1 162726-001 24 Stopper, Rubber (not shown) 1 309960 25 Silp Coupling with O-Rings, 1½" 1 162726-001 26 Hose Cuff, 2" ID x 3" (VMDI 21-34) 1 305391-003 27 Hose Clamp, 2" ID (VMDI 21-34) 2 700560-200 28 Panel, Front Weld 1 160320-100 30 Bracket, Electrical Cover Key Lock 1 120746 31 Display Board, LW440 (VL2) 1 408651 32 Wall Bracket 1 160350° 35 Light, Green (READY WATER) 1 409520-002	6	Heater	٠	409600*
9 Pipe Weld, Fill Valve 1 160229* 11 Seal Ring, ¼* 18 NPT 1 306365 12 Float Valve Assembly 1 * 13 Float Switch, Stainless Steel LWCO 1 408420-001 14 Drain Assembly 1 180450* 15 Valve, ¾* Stainless Steel Ball 1 505000-001 16 Hose, Overflow 1t* 307020-002 17 Spring, Overflow Hose 1 307025 18 Hose Clamp, ¾* ID 4 700560-075 19 DI Conversion Weld, (VMDI 21, 34) 1 167786 20 Gasket, (VMDI 25, 34) Conversion Weld 1 160698 21 DI Housing, Nylon 1 167780 22 Duro Strip, 11* Nylon 2 309980 23 Hose, Drain 1 167780 24 Stopper, Rubber (not shown) 1 309960 25 Silp Coupling with O-Rings, 1½** 1 162726-001 26 Hose Cuff, 2* ID x 3* (VMDI 21-34) 1 305391-003 27 Hose Clamp, 2* ID (VMDI 21-34) 2 700560-200 28 Panel, Front Weld 1 160310-100 30 Bracket, Electrical Weld 1 160320-100 31 Display Board, LW440 (VL2) 1 408651 32 Wall Bracket 1 160150-101 33 Lock, Key 1 700700 34 Connector Weld 1** 160350* 35 Light, Green (READY WATER) 1 409520-002	7	Knob, T-Handled Utility	4	700725
10 Orifice, Fill Valve 1 1 160229* 11 Seal Ring, ¼" 18 NPT 1 306365 12 Float Valve Assembly 1 * 13 Float Switch, Stainless Steel LWCO 1 408420-001 14 Drain Assembly 1 180450* 15 Valve, ¾" Stainless Steel Ball 1 505000-001 16 Hose, Overflow 1t* 307020-002 17 Spring, Overflow Hose 1 307025 18 Hose Clamp, ¾" ID 4 700560-075 19 DI Conversion Weld, (VMDI 21, 34) 1 167786 20 Gasket, (VMDI 25, 34) Conversion Weld 1 160698 21 DI Housing, Nylon 1 167780 22 Duro Strip, 11" Nylon 2 309980 23 Hose, Drain 1 180960 24 Stopper, Rubber (not shown) 1 309960 25 Silp Coupling with O-Rings, 1½" 1 162726-001 26 Hose Cuff, 2" ID x 3" (VMDI 21-34) 1 305391-003 27 Hose Clamp, 2" ID (VMDI 21-34) 2 700560-200 28 Panel, Front Weld 1 160310-100 30 Bracket, Electrical Weld 1 160320-100 31 Display Board, LW440 (VL2) 1 408651 32 Wall Bracket 1 160150-101 33 Lock, Key 1 700700 34 Connector Weld 1** 160350* 35 Light, Green (READY WATER) 1 409520-002	8	Elbow, 14" 90° (VMDI 2-16)	1	200580
11       Seal Ring, ¼" 18 NPT       1       306365         12       Float Valve Assembly       1       *         13       Float Switch, Stainless Steel LWCO       1       408420-001         14       Drain Assembly       1       180450*         15       Valve, ¾" Stainless Steel Ball       1       505000-001         16       Hose, Overflow       fit*       307020-002         17       Spring, Overflow Hose       1       307025         18       Hose Clamp, ¾" ID       4       700560-075         19       DI Conversion Weld, (VMDI 21, 34)       1       167786         20       Gasket, (VMDI 25, 34) Conversion Weld       1       160698         21       DI Housing, Nylon       1       167780         22       Duro Strip, 11" Nylon       2       309980         23       Hose, Drain       1       307020-002         24       Stopper, Rubber (not shown)       1       309960         25       Silp Coupling with O-Rings, 1½"       1       162726-001         26       Hose Clamp, 2" ID x 3" (VMDI 21-34)       1       305391-003         27       Hose Clamp, 2" ID (VMDI 21-34)       2       700560-200         28	9	Pipe Weld, Fill Valve	1	*
12       Float Valve Assembly       1       *         13       Float Switch, Stainless Steel LWCO       1       408420-001         14       Drain Assembly       1       180450*         15       Valve, ¾" Stainless Steel Ball       1       505000-001         16       Hose, Overflow       ft*       307020-002         17       Spring, Overflow Hose       1       307025         18       Hose Clamp, ¾" ID       4       700560-075         19       DI Conversion Weld, (VMDI 21, 34)       1       167786         20       Gasket, (VMDI 25, 34) Conversion Weld       1       160698         21       DI Housing, Nylon       1       167780         22       Duro Strip, 11" Nylon       2       309980         23       Hose, Drain       ft*       307020-002         24       Stopper, Rubber (not shown)       1       309960         25       Silp Coupling with O-Rings, 1½"       1       162726-001         26       Hose Cuff, 2" ID x 3" (VMDI 21-34)       1       305391-003         27       Hose Clamp, 2" ID (VMDI 21-34)       2       700560-200         28       Panel, Front Weld       1       160310-100         30	10	Orifice, Fill Valve	1	160229*
13       Float Switch, Stainless Steel LWCO       1       408420-001         14       Drain Assembly       1       180450*         15       Valve, ¾" Stainless Steel Ball       1       505000-001         16       Hose, Overflow       ft*       307020-002         17       Spring, Overflow Hose       1       307025         18       Hose Clamp, ¾" ID       4       700560-075         19       DI Conversion Weld, (VMDI 21, 34)       1       167786         20       Gasket, (VMDI 25, 34) Conversion Weld       1       160698         21       DI Housing, Nylon       1       167780         22       Duro Strip, 11" Nylon       2       309980         23       Hose, Drain       ft*       307020-002         24       Stopper, Rubber (not shown)       1       309960         25       Slip Coupling with O-Rings, 1½"       1       162726-001         26       Hose Cuff, 2" ID x 3" (VMDI 21-34)       1       305391-003         27       Hose Clamp, 2" ID (VMDI 21-34)       2       700560-200         28       Panel, Front Weld       1       160310-100         29       Cover, Electrical Weld       1       160320-100	11	Seal Ring, ¼" 18 NPT	1	306365
14       Drain Assembly       1       180450*         15       Valve, ¾" Stainless Steel Ball       1       505000-001         16       Hose, Overflow       fi*       307025-002         17       Spring, Overflow Hose       1       307025         18       Hose Clamp, ¾" ID       4       700560-075         19       DI Conversion Weld, (VMDI 21, 34)       1       167786         20       Gasket, (VMDI 25, 34) Conversion Weld       1       160698         21       DI Housing, Nylon       1       167780         22       Duro Strip, 11" Nylon       2       309980         23       Hose, Drain       fi*       307020-002         24       Stopper, Rubber (not shown)       1       309960         25       Silp Coupling with O-Rings, 1½"       1       162726-001         26       Hose Cuff, 2" ID x 3" (VMDI 21-34)       1       305391-003         27       Hose Clamp, 2" ID (VMDI 21-34)       2       700560-200         28       Panel, Front Weld       1       160310-100         29       Cover, Electrical Weld       1       160320-100         30       Bracket, Electrical Cover Key Lock       1       120746	12	Float Valve Assembly	1	•
15 Valve, ¾" Stainless Steel Ball 1 505000-001 16 Hose, Overflow 1t* 307020-002 17 Spring, Overflow Hose 1 307025 18 Hose Clamp, ¾" ID 4 700560-075 19 DI Conversion Weld, (VMDI 21, 34) 1 167786 20 Gasket, (VMDI 25, 34) Conversion Weld 1 160698 21 DI Housing, Nylon 1 167780 22 Duro Strip, 11" Nylon 2 309980 23 Hose, Drain 1 307020-002 24 Stopper, Rubber (not shown) 1 309960 25 Silp Coupling with O-Rings, 1½" 1 162726-001 26 Hose Cuff, 2" ID x 3" (VMDI 21-34) 1 305391-003 27 Hose Clamp, 2" ID (VMDI 21-34) 2 700560-200 28 Panel, Front Weld 1 160310-100 29 Cover, Electrical Weld 1 160320-100 30 Bracket, Electrical Cover Key Lock 1 120746 31 Display Board, LW440 (VL2) 1 408651 32 Wall Bracket 1 160150-101 33 Lock, Key 1 700700 34 Connector Weld 1 160350° 35 Light, Green (READY WATER) 1 409520-002	13	Float Switch, Stainless Steel LWCO	1	408420-001
16       Hose, Overflow       ft*       307020-002         17       Spring, Overflow Hose       1       307025         18       Hose Clamp, ¾" ID       4       700560-075         19       DI Conversion Weld, (VMDI 21, 34)       1       167786         20       Gasket, (VMDI 25, 34) Conversion Weld       1       160698         21       DI Housing, Nylon       1       167780         22       Duro Strip, 11" Nylon       2       309980         23       Hose, Drain       ft*       307020-002         24       Stopper, Rubber (not shown)       1       309960         25       Silp Coupling with O-Rings, 1½"       1       162726-001         26       Hose Cuff, 2" ID x 3" (VMDI 21-34)       1       305391-003         27       Hose Clamp, 2" ID (VMDI 21-34)       2       700560-200         28       Panel, Front Weld       1       160310-100         29       Cover, Electrical Weld       1       160320-100         30       Bracket, Electrical Cover Key Lock       1       120746         31       Display Board, LW440 (VL2)       1       408651         32       Wall Bracket       1       160150-101         33	14	Drain Assembly	1	180450*
17       Spring, Overflow Hose       1       307025         18       Hose Clamp, ¾" ID       4       700560-075         19       DI Conversion Weld, (VMDI 21, 34)       1       167786         20       Gasket, (VMDI 25, 34) Conversion Weld       1       160698         21       DI Housing, Nylon       1       167780         22       Duro Strip, 11" Nylon       2       309980         23       Hose, Drain       ft*       307020-002         24       Stopper, Rubber (not shown)       1       309960         25       SIlp Coupling with O-Rings, 1½"       1       162726-001         26       Hose Cuff, 2" ID x 3" (VMDI 21-34)       1       305391-003         27       Hose Clamp, 2" ID (VMDI 21-34)       2       700560-200         28       Panel, Front Weld       1       160310-100         29       Cover, Electrical Weld       1       160320-100         30       Bracket, Electrical Cover Key Lock       1       120746         31       Display Board, LW440 (VL2)       1       408651         32       Wall Bracket       1       160150-101         33       Lock, Key       1       700700         34	15	Valve, ¾" Stainless Steel Ball	1	505000-001
18 Hose Clamp, ¾" ID  19 DI Conversion Weld, (VMDI 21, 34)  20 Gasket, (VMDI 25, 34) Conversion Weld  21 DI Housing, Nylon  22 Duro Strip, 11" Nylon  23 Hose, Drain  24 Stopper, Rubber (not shown)  25 Slip Coupling with O-Rings, 1½" (VMDI 2-16)  26 Hose Cuff, 2" ID x 3" (VMDI 21-34)  27 Hose Clamp, 2" ID (VMDI 21-34)  28 Panel, Front Weld  29 Cover, Electrical Weld  30 Bracket, Electrical Cover Key Lock  31 Display Board, LW440 (VL2)  34 Connector Weld  35 Light, Green (READY WATER)  1 1603698  1 160698  1 160698  1 160698  1 160780  1 160780  1 1607900  1 1607900  1 1607900  1 1607900  1 1607900  1 1607900  1 1607900	16	Hose, Overflow	ft*	307020-002
19 DI Conversion Weld, (VMDI 21, 34) 1 167786 20 Gasket, (VMDI 25, 34) Conversion Weld 1 160698 21 DI Housing, Nylon 1 167780 22 Duro Strip, 11" Nylon 2 309980 23 Hose, Drain 6t* 307020-002 24 Stopper, Rubber (not shown) 1 309960 25 Silp Coupling with O-Rings, 1½" 1 162726-001 26 Hose Cuff, 2" ID x 3" (VMDI 21-34) 1 305391-003 27 Hose Clamp, 2" ID (VMDI 21-34) 2 700560-200 28 Panel, Front Weld 1 160310-100 29 Cover, Electrical Weld 1 160320-100 30 Bracket, Electrical Cover Key Lock 1 120746 31 Display Board, LW440 (VL2) 1 408651 32 Wall Bracket 1 160150-101 33 Lock, Key 1 700700 34 Connector Weld 1** 160350* 35 Light, Green (READY WATER) 1 409520-002	17	Spring, Overflow Hose	1	307025
20       Gasket, (VMDI 25, 34) Conversion Weld       1       160698         21       DI Housing, Nylon       1       167780         22       Duro Strip, 11" Nylon       2       309980         23       Hose, Drain       ft*       307020-002         24       Stopper, Rubber (not shown)       1       309960         25       Slip Coupling with O-Rings, 1½" (MDI 21-34)       1       162726-001         26       Hose Cuff, 2" ID x 3" (VMDI 21-34)       1       305391-003         27       Hose Clamp, 2" ID (VMDI 21-34)       2       700560-200         28       Panel, Front Weld       1       160310-100         29       Cover, Electrical Weld       1       160320-100         30       Bracket, Electrical Cover Key Lock       1       120746         31       Display Board, LW440 (VL2)       1       408651         32       Wall Bracket       1       160150-101         33       Lock, Key       1       700700         34       Connector Weld       1*** 160350*         35       Light, Green (READY WATER)       1       409520-002	18	Hose Clamp, ¾" ID	4	700560-075
21       DI Housing, Nylon       1       167780         22       Duro Strip, 11" Nylon       2       309980         23       Hose, Drain       ft*       307020-002         24       Stopper, Rubber (not shown)       1       309960         25       Slip Coupling with O-Rings, 1½"       1       162726-001         26       Hose Cuff, 2" ID x 3" (VMDI 21-34)       1       305391-003         27       Hose Clamp, 2" ID (VMDI 21-34)       2       700560-200         28       Panel, Front Weld       1       160310-100         29       Cover, Electrical Weld       1       160320-100         30       Bracket, Electrical Cover Key Lock       1       120746         31       Display Board, LW440 (VL2)       1       408651         32       Wall Bracket       1       160150-101         33       Lock, Key       1       700700         34       Connector Weld       1*** 160350*         35       Light, Green (READY WATER)       1       409520-002	19	DI Conversion Weld, (VMDI 21, 34)	1	167786
22       Duro Strip, 11" Nylon       2       309980         23       Hose, Drain       ft*       307020-002         24       Stopper, Rubber (not shown)       1       309960         25       Slip Coupling with O-Rings, 1½"       1       162726-001         26       Hose Cuff, 2" ID x 3" (VMDI 21-34)       1       305391-003         27       Hose Clamp, 2" ID (VMDI 21-34)       2       700560-200         28       Panel, Front Weld       1       160310-100         29       Cover, Electrical Weld       1       160320-100         30       Bracket, Electrical Cover Key Lock       1       120746         31       Display Board, LW440 (VL2)       1       408651         32       Wall Bracket       1       160150-101         33       Lock, Key       1       700700         34       Connector Weld       1*** 160350*         35       Light, Green (READY WATER)       1       409520-002	20	Gasket, (VMDI 25, 34) Conversion Weld	1	160698
23       Hose, Drain       ft*       307020-002         24       Stopper, Rubber (not shown)       1       309960         25       Silp Coupling with O-Rings, 1½"       1       162726-001         26       Hose Cuff, 2" ID x 3" (VMDI 21-34)       1       305391-003         27       Hose Clamp, 2" ID (VMDI 21-34)       2       700560-200         28       Panel, Front Weld       1       160310-100         29       Cover, Electrical Weld       1       160320-100         30       Bracket, Electrical Cover Key Lock       1       120746         31       Display Board, LW440 (VL2)       1       408651         32       Wall Bracket       1       160150-101         33       Lock, Key       1       700700         34       Connector Weld       1** 160350*         35       Light, Green (READY WATER)       1       409520-002	21	DI Housing, Nylon	1	167780
24       Stopper, Rubber (not shown)       1       309960         25       Slip Coupling with O-Rings, 1½"       1       162726-001         26       Hose Cuff, 2" ID x 3" (VMDI 21-34)       1       305391-003         27       Hose Clamp, 2" ID (VMDI 21-34)       2       700560-200         28       Panel, Front Weld       1       160310-100         29       Cover, Electrical Weld       1       160320-100         30       Bracket, Electrical Cover Key Lock       1       120746         31       Display Board, LW440 (VL2)       1       408651         32       Wall Bracket       1       160150-101         33       Lock, Key       1       700700         34       Connector Weld       1*** 160350*         35       Light, Green (READY WATER)       1       409520-002	22	Duro Strip, 11" Nylon	2	309980
25       Silp Coupling with O-Rings, 1½"       1       162726-001         26       Hose Cuff, 2" ID x 3" (VMDI 21-34)       1       305391-003         27       Hose Clamp, 2" ID (VMDI 21-34)       2       700560-200         28       Panel, Front Weld       1       160310-100         29       Cover, Electrical Weld       1       160320-100         30       Bracket, Electrical Cover Key Lock       1       120746         31       Display Board, LW440 (VL2)       1       408651         32       Wall Bracket       1       160150-101         33       Lock, Key       1       700700         34       Connector Weld       1*** 160350*         35       Light, Green (READY WATER)       1       409520-002	23	Hose, Drain	ft*	307020-002
1   162726-001   1   162726-001   25   1   162726-001   1   162726-001   26   Hose Cuff, 2" ID x 3" (VMDI 21-34)   1   305391-003   27   Hose Clamp, 2" ID (VMDI 21-34)   2   700560-200   28   Panel, Front Weld   1   160310-100   29   Cover, Electrical Weld   1   160320-100   30   Bracket, Electrical Cover Key Lock   1   120746   31   Display Board, LW440 (VL2)   1   408651   32   Wall Bracket   1   160150-101   33   Lock, Key   1   700700   34   Connector Weld   1**   160350*   35   Light, Green (READY WATER)   1   409520-002	24	Stopper, Rubber (not shown)	1	309960
27       Hose Clamp, 2" ID (VMDI 21-34)       2       700560-200         28       Panel, Front Weld       1       160310-100         29       Cover, Electrical Weld       1       160320-100         30       Bracket, Electrical Cover Key Lock       1       120746         31       Display Board, LW440 (VL2)       1       408651         32       Wall Bracket       1       160150-101         33       Lock, Key       1       700700         34       Connector Weld       1***       160350*         35       Light, Green (READY WATER)       1       409520-002	25		1	162726-001
28       Panel, Front Weld       1       160310-100         29       Cover, Electrical Weld       1       160320-100         30       Bracket, Electrical Cover Key Lock       1       120746         31       Display Board, LW440 (VL2)       1       408651         32       Wall Bracket       1       160150-101         33       Lock, Key       1       700700         34       Connector Weld       1**       160350*         35       Light, Green (READY WATER)       1       409520-002	26	Hose Cuff, 2" ID x 3" (VMDI 21-34)	1	305391-003
29       Cover, Electrical Weld       1       160320-100         30       Bracket, Electrical Cover Key Lock       1       120746         31       Display Board, LW440 (VL2)       1       408651         32       Wall Bracket       1       160150-101         33       Lock, Key       1       700700         34       Connector Weld       1*** 160350*         35       Light, Green (READY WATER)       1       409520-002	27	Hose Clamp, 2" ID (VMDI 21-34)	2	700560-200
30       Bracket, Electrical Cover Key Lock       1       120746         31       Display Board, LW440 (VL2)       1       408651         32       Wall Bracket       1       160150-101         33       Lock, Key       1       700700         34       Connector Weld       1*** 160350*         35       Light, Green (READY WATER)       1       409520-002	28	Panel, Front Weld	1	160310-100
31       Display Board, LW440 (VL2)       1       408651         32       Wall Bracket       1       160150-101         33       Lock, Key       1       700700         34       Connector Weld       1** 160350*         35       Light, Green (READY WATER)       1       409520-002	29	Cover, Electrical Weld	1	160320-100
32       Wall Bracket       1       160150-101         33       Lock, Key       1       700700         34       Connector Weld       1** 160350*         35       Light, Green (READY WATER)       1       409520-002	30	Bracket, Electrical Cover Key Lock	1	120746
33       Lock, Key       1       700700         34       Connector Weld       1** 160350*         35       Light, Green (READY WATER)       1       409520-002	31	Display Board, LW440 (VL2)	1	408651
34     Connector Weld     1** 160350*       35     Light, Green (READY WATER)     1     409520-002	32	Wall Bracket	1	160150-101
35 Light, Green (READY WATER) 1 409520-002	33	Lock, Key	1	700700
	34	Connector Weld	1**	160350*
36 Plug, VMDI Pllot Light Hole 2 409525	35	Light, Green (READY WATER)	1	409520-002
	36	Plug, VMDI Pliot Light Hole	2	409525

<sup>\*</sup> Specify humidifier model and serial numbers when ordering.
\*\* Shipped loose except with bonding bracket.

#### TWO-YEAR LIMITED WARRANTY

DRI-STEEM Humidifier Company ("DRI-STEEM") warrants to the original user that its products will be free from defects in materials and workmanship for a period of two (2) years after installation or twenty-seven (27) months from the date DRI-STEEM ships such product, whichever date is the earlier.

If any DRI-STEEM product is found to be defective in material or workmanship during the applicable warranty period, DRI-STEEM's entire liability, and the purchaser's sole and exclusive remedy, shall be the repair or replacement of the defective product, or the refund of the purchase price, at DRI-STEEM's election. DRI-STEEM shall not be liable for any costs or expenses, whether direct or indirect, associated with the installation, removal or re-installation of any defective product.

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By purchasing DRI-STEEM's products, the purchaser agrees to the terms and conditions of this limited warranty.



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Printed on recycled paper. Minimum 10% Post Consumer Waste.

Continuous product improvement is a policy of DRI-STEEM Humidifier Company therefore, product features and specifications are subject to change without notice.

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