PURE Humidifier

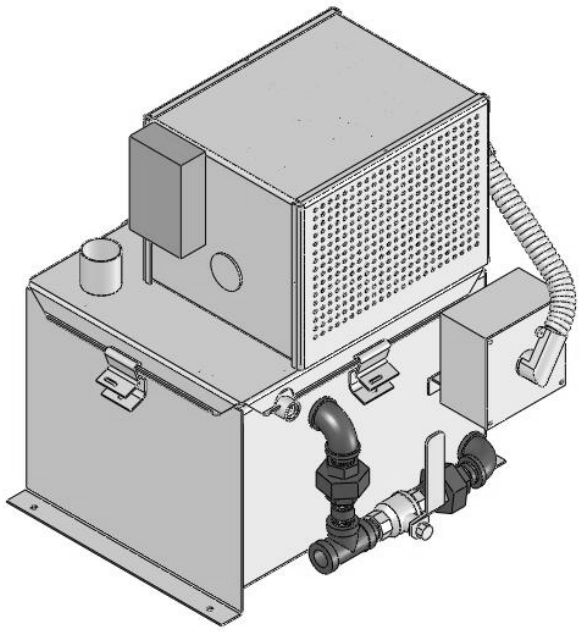
"Read and Save These Instructions"

Deionized, Demineralized, or Reverse Osmosis Water

"ERDDR" Series Electric Humidifier

Installation Instructions

Operation and Maintenance Manual



Our results are comforting

Form No: ERDOM-11-10

Introduction

To the user of PURE Humidifier Co.'s Electric Humidifiers

We at PURE Humidifier Co. thank you for choosing one of our quality products. PURE Humidifier Co. Electric Series Humidifiers are models of simplicity to install, operate, and maintain. However, they must be maintained to provide maximum operating efficiency.

PLEASE READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY. PROPER OPERATION AND HUMIDITY CONTROL IS POSSIBLE ONLY WITH PROPER INSTALLATION AND MAINTENANCE.

The "ERDDR" Series Humidifier is specifically designed to operate with deionized, demineralized, or reverse osmosis water. All components that will be in contact with water are constructed of type 304 stainless steel, incoloy, or corrosion resistant materials.

Use of mineralized (hard or soft) tap water will cause fill valve failure and void that warranty. PURE Humidifier Co.'s "ER" Series should be installed on applications that require tap water.

High chloride content in feed water can cause chloride stress cracking and chloride pitting in stainless components. Chloride stress corrosion cracking (CSCC) and chloride pitting of stainless steel components is not covered by warranty. Do not use hydrochloric acid descalers or bleach to clean the tank. Consult the factory if you are unsure about which chemical descaler to use.

To ensure proper installation of this product, it must be installed by qualified HVAC and electrical contractors, and must be in compliance with local, state, federal, and governing codes. If installed improperly this product may cause damage to property, severe personal injury, or death as a result of electric shock, burns, and/or fire.

Do not adjust any components inside humidifier control box without consulting the factory.

For indoor use only unless supplied with an Outdoor Enclosure

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The PURE Humidifier Co. Warranty

PURE Humidifier Co. guarantees its products to be free from defects in material and workmanship for a period of one year from the date of shipment; provided the product is properly installed, serviced, and put into the service for which it was intended.

PURE Humidifier Co. is obligated under the terms of this warranty to the repair or replacement of the defective part(s), excluding any labor charges, or to refund the purchase price at our option. PURE Humidifier Co. assumes no obligation for incidental or consequential damages. The above provisions are in lieu of all other guarantees, obligations, liabilities or warranties, expressed or implied.

Capacities & Weights

Standard Water Unit Model No.	Steam Output Capacity †		KW	Humidifier Reservoir Weight Empty		Full	
	lbs/hr	kg/hr		lbs	kg	lbs	kg
ERDDR-1	3	1.4	1	42	19	70	31.4
ERDDR-3	9	4.1	3	42	19	70	31.4
ERDDR-5	15	6.8	5	42	19	70	31.4
ERDDR-6	18	8.2	6	42	19	70	31.4
ERDDR-7	21	9.5	7	42	19	70	31.4

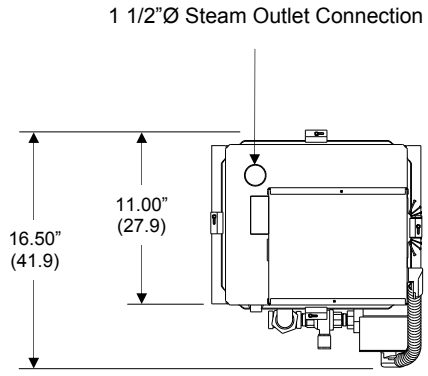
† The above capacities are based on 100% efficiency. Actual humidifier capacity may vary due to the heat loss from the humidifier reservoir. The ambient air temperature, air velocity, and injection tube system will affect the rate of heat loss from the humidifier reservoir.

Single Phase Amperage*

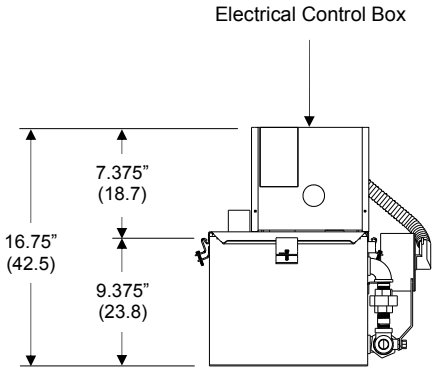
Standard Water Unit Model No.	Unit KW	120V	208V	240V	480V	600V	No. of Heaters	Heater KW	Control Circuit Voltage
ERDDR-1	1	8.3	4.8	4.2	2.1	1.7	1	1.0	24 vac
ERDDR-3	3	25.0	14.4	12.5	6.3	5.0	1	3.0	24 vac
ERDDR-5	5		24.0	20.8	10.4	8.3	2	2.5	24 vac
ERDDR-6	6		28.8	25.0	12.5	10.0	2	3.0	24 vac
ERDDR-7	7				14.6	11.7	2	3.5	24 vac

* Other voltages available upon request. Please consult factory for specific availability.

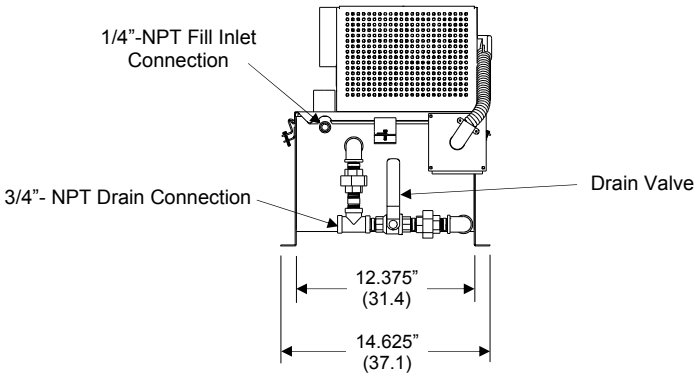
Dimensions & Layout



Top View

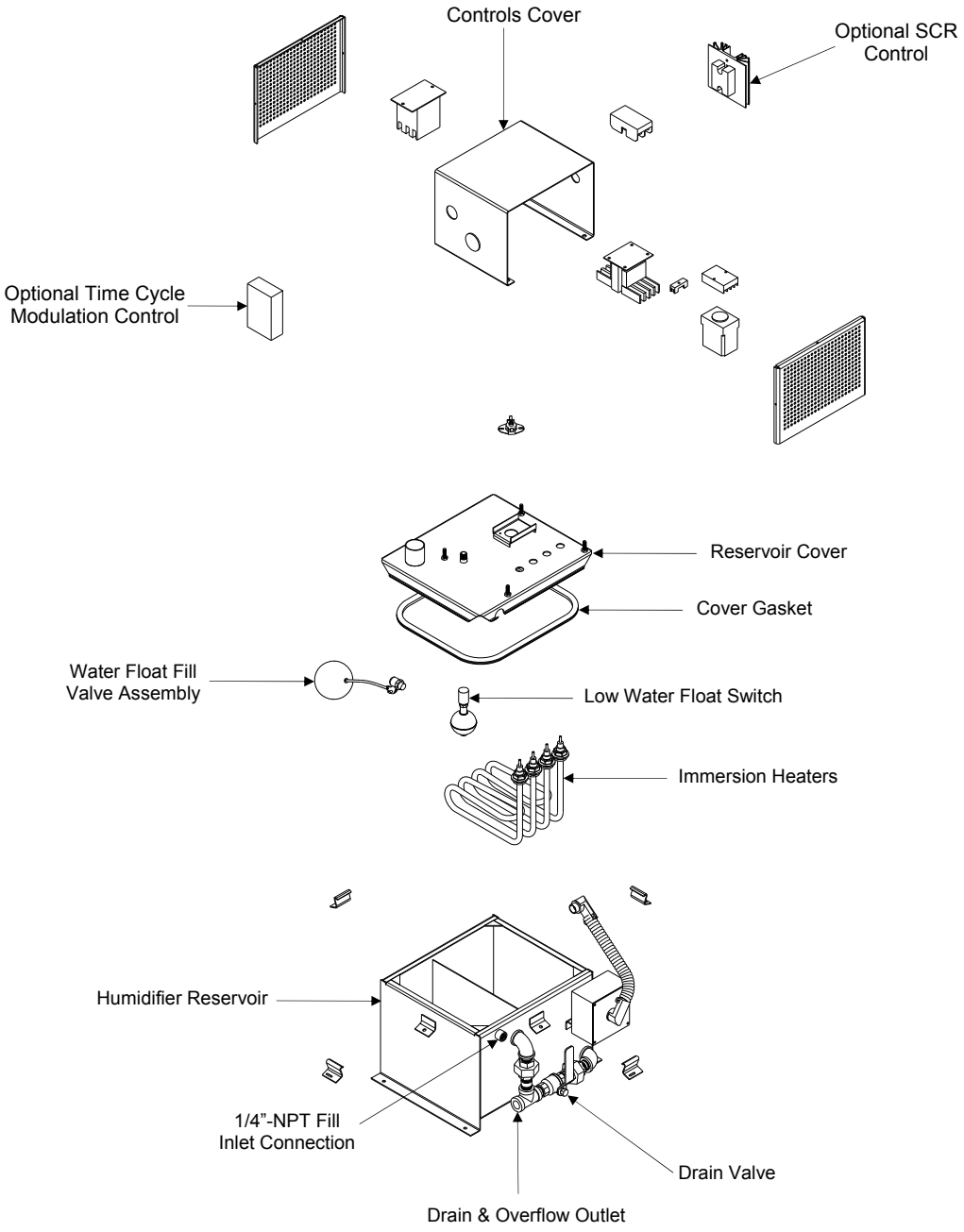


Front View



Right Side View

Humidifier Layout



Location

The location selected must provide for electrical service, cold or hot water supply, and sanitary drain.

When selecting a location, try to keep the humidifier within 10 feet (305 cm) of the duct to avoid unnecessary heat losses and condensation within the steam supply line.

Visible “fog” will saturate and condense when it contacts objects such as turning vanes, filters, fans, elbows, or take-offs. The warmer the air, the more easily it will dissipate the visible steam. The most active and warmest portion of the duct will provide better mixing of the steam and air. The injection tube should be mounted a minimum of 2 feet (61 cm) downstream from an elbow or other uneven air flow area.

Avoid mounting the single-style injection tube closer than 8-10 feet (244-305 cm) upstream of objects that could become saturated and condense the steam (reference paragraph above).

CAUTION: Do not humidify upstream of filters. Consult factory.

Location of Controls

Fan Interlock Switch
PURE Humidifier Co. recommends the use of an air flow proving switch or fan interlock to prove air flow prior to humidifier cooperation. Humidifier operation without air flow will result in over-saturation of the air stream. Air flow proving switches are available as optional equipment from your PURE Humidifier Co. representative.

High-Limit Humidistat
PURE Humidifier Co. recommends the use of a duct high-limit humidistat to prevent humidifier operation when the duct humidity level exceeds 85% relative humidity. Humidifier operation above 85% relative humidity can result in over-saturation of the air stream. High-limit humidistats are available as optional equipment from your PURE Humidifier Co. representative. The high limit humidistat should be 12 to 14 feet (365-427 cm) downstream from the humidifier injection tube.

Smoke Detectors and Temperature Sensors
Smoke detectors should be located 12 to 14 feet (365-427 cm) upstream from the humidifier injection tube.

Temperature sensors should be located 12 to 14 feet (365-427 cm) downstream from the humidifier injection tube, or past any visible fog travel that may be greater than this distance.

Injection Tube Installation

The injection tube should be installed in the center of the duct. See Flexible Hose Kit Installation on page 7 for details.

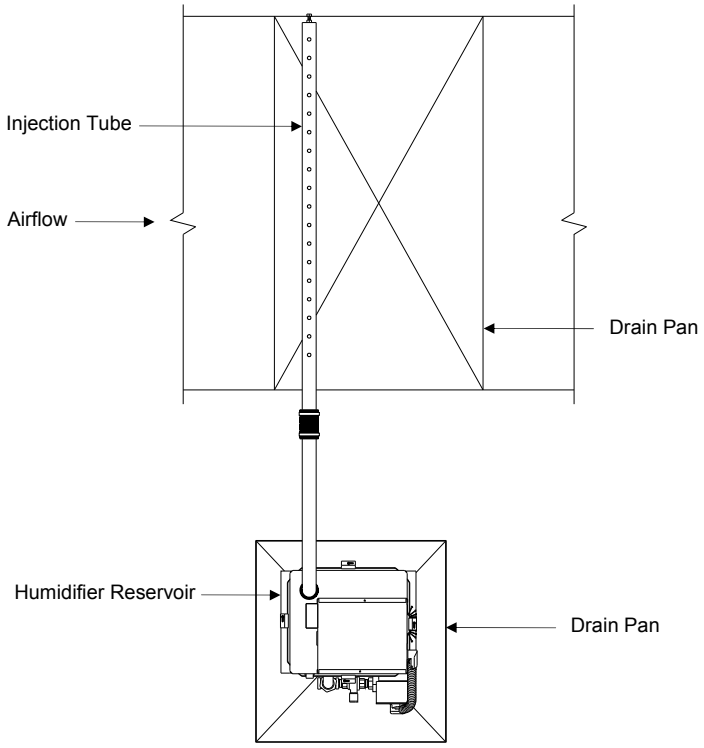
Injection tube should be pitched 2 inches (5 cm) per foot (31 cm), back to the humidifier. If proper pitch cannot be maintained, or the injection tube is mounted lower than the humidifier, a drain “tee” will be required.

Install the tube with the steam ports injecting steam up. NOTE: If narrow ducts (6”/15 cm or less, in height) are utilized, install the tube with the steam ports injecting with the air flow slightly (2 o’clock position).

Galvanized steel duct plates are provided to seal the opening where the tube enters the duct.

Drain Pan Mounting

A drain pan is an additional safety feature which may be required to be supplied in the field. In a proper humidifier installation, a drain pan is not required. However, if the humidifier and injection tube are located in an area that contains valuable equipment or is a water sensitive area, PURE Humidifier Co. recommends the addition of a drain pan under the humidifier and under the injection tube. The drain pan should extend past all edges of the humidifier and if installed in the duct, it should extend a minimum of 3 feet (91 cm) downstream from the injection tube. The pan should be capable of draining at a rate of 3 gpm. The pan should be drained to a sanitary drain.



Humidifier Reservoir and Injection Tube Plan View

Flexible Hose Kit Installation

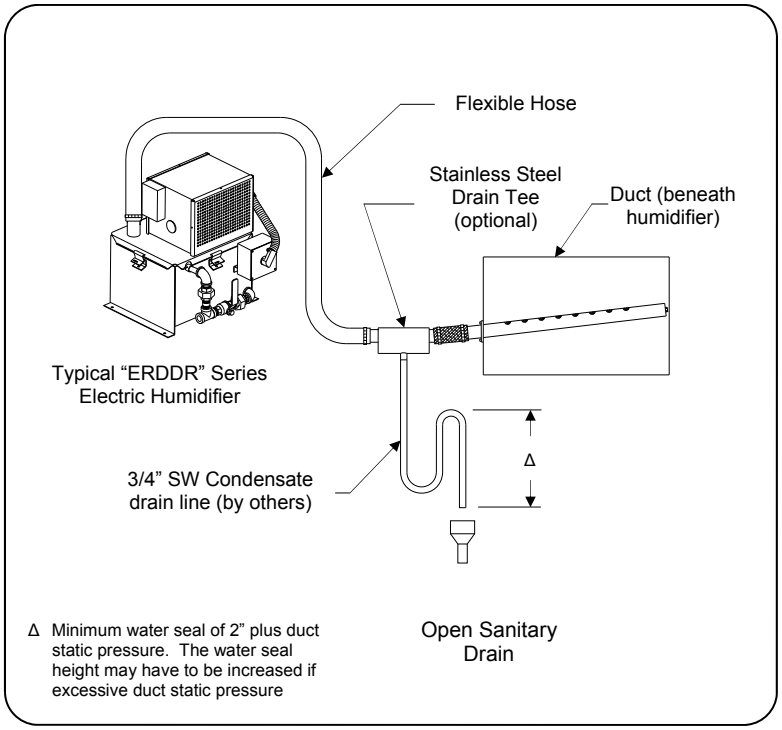
Flexible Hose Kit Installation

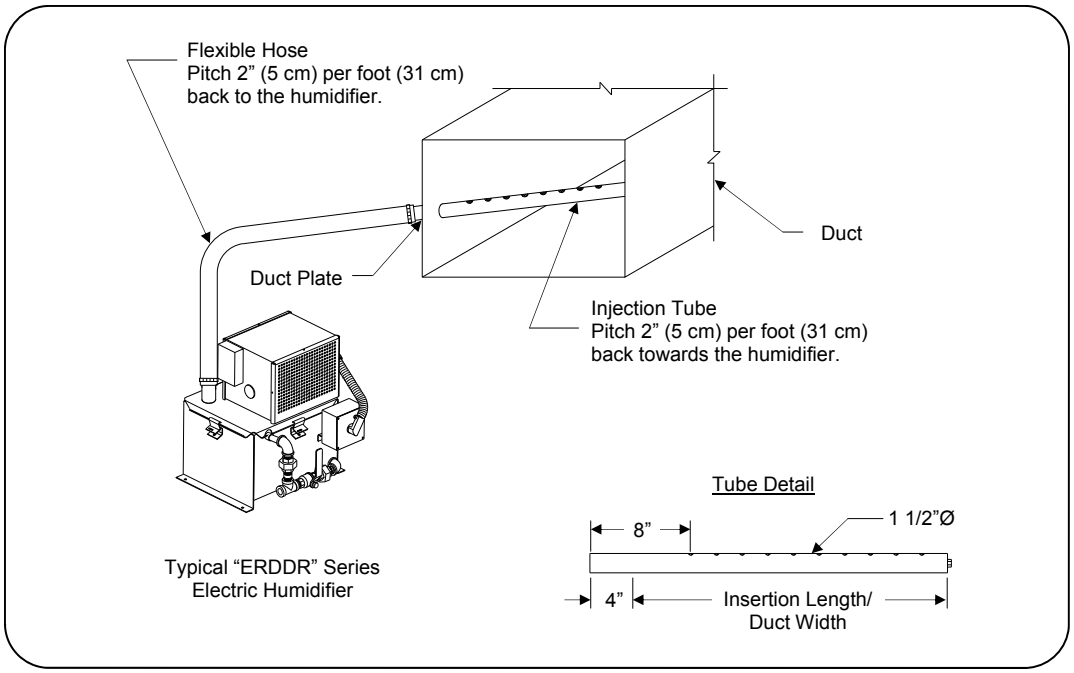
Hose kit should have the injection tube installed in the center of the duct. Hose and injection tube should be pitched back to the humidifier two inches (5 cm) per foot (31 cm). If proper pitch cannot be maintained, or the injection tube is mounted lower than the humidifier, a drain "tee" will be required (reference drain "tee" illustration).

Install the tube with the steam ports injecting steam up. NOTE: If narrow ducts (6"/15 cm or less, in height) are utilized, install the tube with the steam ports injecting slightly with the air flow (2 o'clock position).

The hose connects to the injection tube and humidifier with stainless steel hose clamps (by PURE Humidifier Co.).

Galvanized steel duct plates are provided to seal the opening where the tube enters the duct.





Piping

Water Supply Piping

Recommended supply pressure: 35-50 psi
Maximum supply pressure: 70 psi

This style humidifier utilizes a float-operated fill valve system which is designed for use with deionized, demineralized, or reverse osmosis water. Use of mineralized tap water will cause fill valve failure and will void the humidifier warranty.

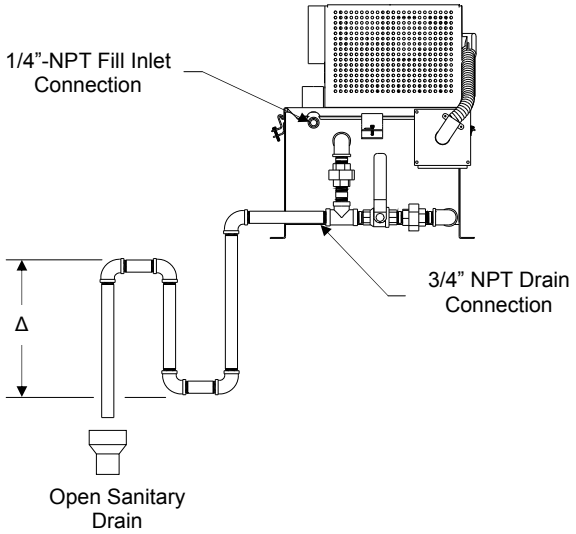
Install stainless pipe on make-up water line within 5 feet of humidifier fill valve connection. If plastic pipe is used beyond this point a check valve is required to prevent steam from entering the plastic section in the event that the water treatment system runs out of water.

Cold or hot deionized, demineralized, or reverse osmosis water can be supplied to the humidifier. A minimum water pressure of 35 psi (2.4 Bar) should be maintained to provide the proper water level within the humidifier. **DO NOT** exceed the maximum acceptable water pressure of 70 psi (4.8 Bar). If the water pressure is above 70 psi (4.8 Bar) a pressure reducing valve should be installed.

Drain Piping

The drain piping should be stainless steel. The use of PVC piping is not recommended; the humidifier water temperature will cause the PVC to soften and fail. Use a drain tempering kit before transition to PVC.

If gravity drain is not possible please use a condensate pump rated for 212°F water or contact a PURE Humidifier Co. representative to purchase one.



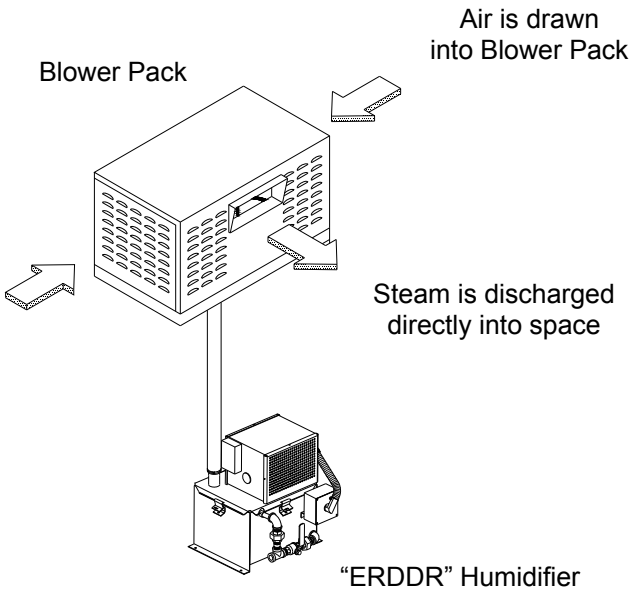
NOTES

1. All drain piping is by others.
2. Do NOT use PVC or other plastic piping that is not rated for 220°F or higher.

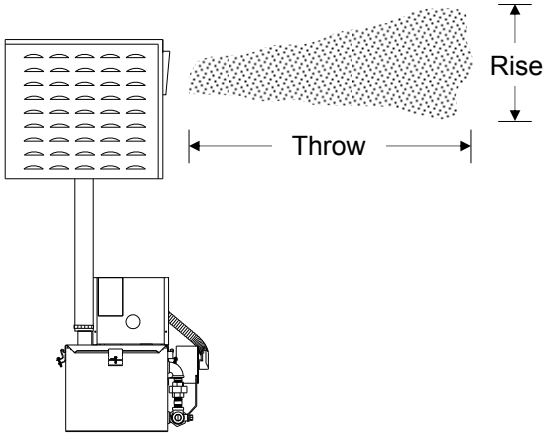
Δ Minimum water seal of 2" plus duct static pressure. The water seal height may have to be increased if excessive duct static pressure

Optional Blower Pack

In applications where a ducted air system is not available, PURE offers the optional Blower Pack. The Blower Pack contains a two-speed adjustable blower that moves the air over the steam discharge outlet and disperses the steam directly into the space (see Fig. 1).



"ERDDR" With Optional Blower Pack
Fig. 1



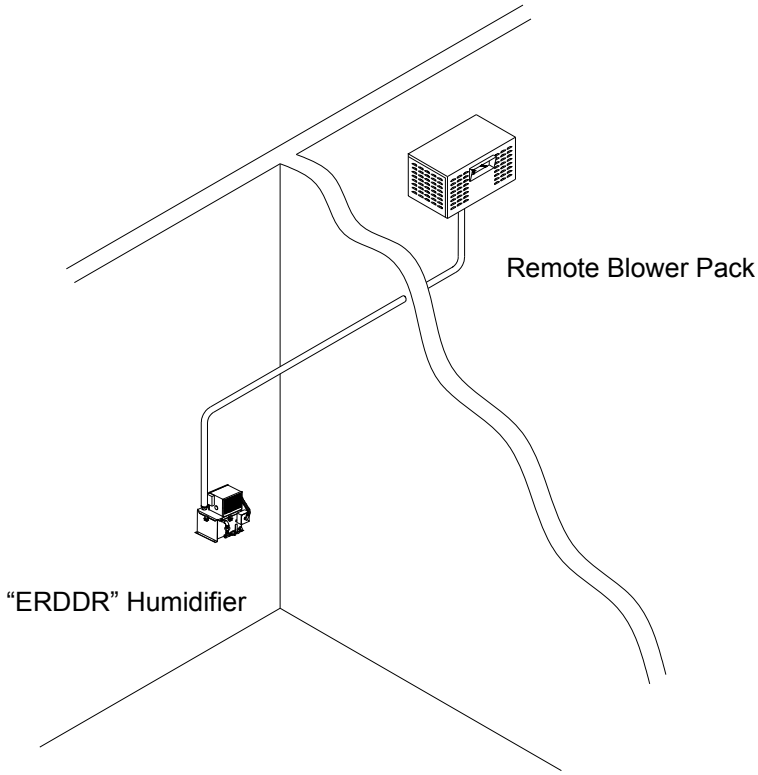
Visible Rise and Throw

Locating Blower Pack

The distance that visible steam will travel after leaving the Blower Pack is dependent upon the relative humidity in the room and the capacity of the humidifier. If this visible steam comes in contact with any solid object (walls, beams, machinery, etc.), it may form condensate and drip. Refer to Fig. 3 and Table 4 (Table 4 is located on page 10) for data on visible steam travel. This will aid you in planning the location of the Blower Pack.

Remote Mounting

The Blower Pack can be remote-mounted up to ten feet away from the "ERDDR " humidifier (see Fig. 2).



Remote-Mounted Blower Pack
Fig. 2

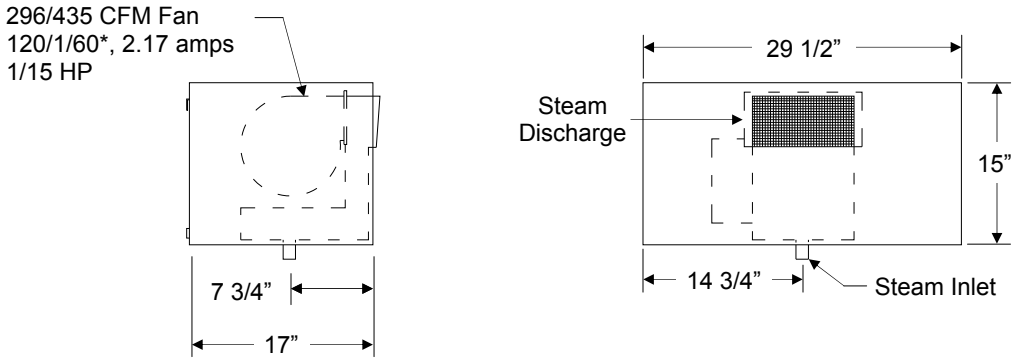
Locating Blower Pack

The distance that visible steam will travel after leaving the Blower Pack is dependent upon the relative humidity in the room and the capacity of the humidifier. If this visible steam comes in contact with any solid object (walls, beams, machinery, etc.) it may form condensate and drip. Refer to Fig. 3 (Fig. 3 is located on page 9) and Table 4 for data on visible steam travel. This will aid you in planning the location of the Blower Pack.

Visible Steam Rise & Throw		Humidifier Model				
		ERDDR-1	ERDDR-3	ERDDR-5	ERDDR-6	ERDDR-7
50% RH	Rise (ft)	1’	1’	1’	2’	2’
	Throw (ft)	8’	8’	8’	10’	10’
60% RH	Rise (ft)	2’	2’	2’	3’	3’
	Throw (ft)	13’	13’	13’	14’	14’

Throw is the horizontal distance the visible steam travels from the steam discharge.
Rise is the vertical distance the visible steam travels from the steam discharge.
Objects in the direct line of the visible steam or objects that are cooler than the ambient temperature may accumulate condensation.
Note: Data above based on 70°F room temperature.

Table 4



Left Side View **Front View**

Optional Blower Pack Dimensions
Fig. 5
Blower Pack weight is 60 lbs (27.2 kg)
* Blower requires a separate 120/1 circuit (by others)

Pre-Startup Checklist

Before starting the "ERDDR" PURE Humidifier Co. Electric Humidifier, check the following installation items:

_____ 1. MOUNTING - Verify that the humidifier evaporating chamber is securely supported and that the evaporating chamber is level in both directions. If humidifier is installed above equipment or not located near a floor drain than a drain pan should be installed below the humidifier steam generator.

_____ 2. INJECTION TUBE - Verify that the humidifier injection tube is mounted within the duct with the proper pitch back to the humidifier (2"/5 cm per foot / 31 cm). NOTE: If the humidifier evaporating chamber or the flexible hose (optional) is mounted higher than the injection tube, a drain "tee" is required to drain the condensate out of the injection tube steam line. If it is an Insty-Pac or Fast-Pac, refer to the respective O&M to determine if they are mounted properly and have the proper p-trap size.

_____ 3. ELECTRICAL - Verify that all wiring connections have been connected in accordance with the wiring diagram. **CAUTION: Live power may exist in the control cabinet. Turn off the main power at the disconnect switch before verifying the electrical connections!**

_____ 4. SAFETY CONTROLS – The supply air duct RH high-limit should be installed at least 10 feet downstream from the humidifier tube. Any other control sensors should be at least 10 feet downstream from the humidifier tube. Smoke detectors should not be installed downstream of the humidifier tube. If a smoke detector absolutely has to be installed downstream from the humidifier tubes then it should be installed as far from the tubes as possible.

_____ 5. PIPING: Water Supply - Verify that all piping connections have been completed as recommended and that water pressure is available to the humidifier. Verify that the supply water pressure is 35-50 psi. There should be at least 5 feet of metal pipe and check valve between the tank and any plastic pipe.

_____ 6. PIPING: Steam Outlet - Refer to attachment for proper outlet steam piping from the generator to the tube(s). **Any horizontal to vertical up transition in the outlet steam pipe requires a water-sealed drip leg!** Improper outlet steam piping will cause steam to leak from the steam generator. Runs over 20 feet long may require upsizing of the steam pipe.

Signature:_____ Date:_____

Non-INTAC® Start-Up Procedure

Start Up Procedure

_____ 1. Close the humidifier manual ball valve.

_____ 2. Turn the controlling humidistat to the lowest setting (no call for humidity).

_____ 3. Open the water supply on/off isolation valve (by others) and allow the humidifier evaporating chamber to fill to the proper level.

_____ 4. Turn the electric power “on” to the humidifier.

_____ 5. Make sure all the optional safety switches are satisfied (airflow proving switch, high-limit humidistat, etc.).

_____ 6. After the humidifier is full of water, turn the humidistat up to call for 100% humidifier demand.

_____ 7. Verify the low water safety circuit by opening the drain valve and closing the water supply on/off isolation valve (by others). As the humidifier tank is draining, the contactor should pull out and remain off; this indicates the low water safety circuit is operational.

_____ 8. Close the drain valve, open the water supply on/off isolation valve (by others) and allow the humidifier to fill to the proper level.

_____ 9. Once full the heater(s) should energize on a call from the humidistat.

_____ 10. Check operation of optional field-installed safety switches (airflow proving switch, high-limit humidistat, etc.) to make sure that they turn the power off to the control circuit power. The safety switches should shut-off the humidifier contactor whenever one or more of the optional safety switches create an “open circuit”.

_____ 11. Check heater amperage draw by testing and recording voltage and amperage. Readings should match the factory heater nameplate.
Amps :_____

_____ 12. Inspect installation for leaks by operating humidifier at a full rolling boil. This may take up to 15 minutes from a cold start. Any leaks should be sealed. Just tightening a pressure clamp will not work if the gasket is not properly positioned between the sealing surfaces. If necessary, remove the cover, reseat gasket and replace cover. A small amount of adhesive (super glue, gorilla glue, spray adhesive, etc.) to hold the gasket in place while repositioning the cover will aid in this process.

_____ 13. After the unit is producing steam, check and retighten all hose clamp connections in the system and make sure they are torqued to 35-40 in-lbs.

Signature:_____ Date:_____

INTAC® Start-Up Procedure

Start-Up Procedure

_____ 1. Make sure the electric power to the humidifier is shut off.

_____ 2. Close the humidifier manual drain ball valve (located on the right side of the humidifier evaporating chamber).

_____ 3. Open the water supply on/off isolation valve (by others) and allow the humidifier evaporating chamber to fill to the proper level.

_____ 4. Turn the electric power "on" to the humidifier. The display on the INTAC® controller should illuminate "Normal Operation".

_____ 5. Set menu 101 "RH Setpoint" to the lowest setting (no call for humidity). If 100 menu shows "No Parameters Available" the procedure must be done through the Building Management System.

_____ 6. Make sure all the optional safety switches are satisfied (air-flow proving switch, high-limit humidistat, etc.).

_____ 7. After the humidifier is full of water, menu 004 will read "FULL".

_____ 8. Verify the low water safety switch by closing the water supply on/off isolation valve (by others), opening the drain valve and verifying that the low voltage pilot relay within the control cabinet de-energizes when the water level is dropped below the low water shut off switch (you can hear the relay switch "out"). Menu 004 should now read "LOW"; this indicates that the low water safety circuit is operational. The pilot relay opening will shut down the heating element contactor when the contactor is energized.

_____ 9. Close the drain valve, open the water supply valve, and allow the humidifier to fill to the proper level.

_____ 10. Turn menu 101 "RH Setpoint" up to a call for humidity. If a Building Automation System is controlling the humidifier have it call for 100% demand. For Building Automation System verify 0% and 100% demands are displayed as 0% and 100% on the INTAC® display and adjust the input high and low values to match accordingly.

_____ 11. Check operation of optional field-installed safety switches (air flow proving switch, high-limit humidistat, etc.) to make sure that they turn the power off to the low voltage pilot relay. The safety switches should shut off the contactor when one or more of the optional safety switches create an open circuit.

_____ 12. Check heater amperage draw by testing and recording voltage and amperage in each phase. Readings should match the factory heater nameplate.
Amps :_____

_____ 13. Inspect installation for leaks by operating humidifier at a full rolling boil. This may take up to 15 minutes from a cold start. Any leaks should be sealed. Just tightening a pressure clamp will not work if the gasket is not properly positioned between the sealing surfaces. If necessary remove the cover and reseat the gasket. A small amount of adhesive (super glue, gorilla glue, spray adhesive, etc.) to hold the gasket in place while repositioning the cover will aid in this process.

_____ 14. After the unit is producing steam, check and retighten all hose clamp connections in the system and make sure they are torqued to 35-40 in-lbs. There are two clamps on the fill line, two on the drain line, and two on the steam connections. There may be more located on the steam tube assembly (if used).

Signature:_____ Date:_____

PURE Humidifier Co. "ERDDR" Maintenance Instructions

The "ERDDR" Series Electric Humidifier is practically maintenance-free. However, the humidifier should be inspected and placed on a dedicated maintenance schedule to ensure continued operation of the humidifier and its accessories. **PURE Humidifier Co. recommends that the following items be inspected, and/or, cleaned on a minimum basis of twice a year.** If excessive mineral build-up occurs, the maintenance schedule should be increased.

Inspect/Maintenance Item	**Procedure to Follow**
Water make-up float valve	Check to make sure the fill valve is operating properly. If the valve appears to continually fill, check the valve adjustment or valve seat and seal (see trouble shooting instructions).
Low water float switch	Check to make sure the switch will shut the humidifier off when the water level drops too low. Open the drain valve to allow water to drain out for checking purposes. Make sure to close the drain valve after inspection is completed.
Safety interlocks (air flow, high-limit)	Check to make sure the safety interlocks (air flow, high-limit, etc.) will shut down the humidifier.
Immersion heaters	Verify the correct amperage is being drawn by the heating element. Reference the wiring diagram for correct amperage.
Humidifier cover/tank	Inspect for any leaks. Repair as required. Remove the heater assembly and remove mineral deposits from floor of the humidifier reservoir.
Flexible hose	Inspect for cracks or leaks. It is normal for the hose to become hard and develop a "set". Replace as needed.

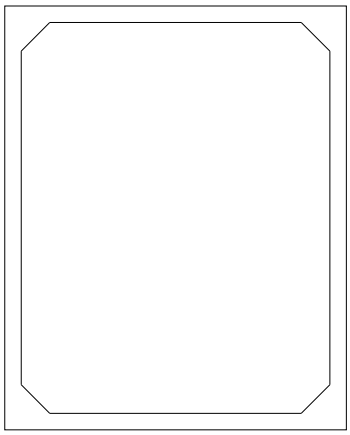
Cleaning Instructions

Normally ERDDR reservoirs do not need to be cleaned when fed with high purity water. If fed with low purity water reservoir cleaning may be needed. The tank should be cleaned manually from the reservoir cover. Turn off the water supply on/off isolation valve (by others). Turn off power to the unit, disconnect steam supply hose and remove cover. Remove all loose solids with a wet vacuum, stainless steel brush, scouring pad, putty knife and/or bucket. Heaters should also be cleaned and loose build-up removed by hand (if applicable). After removal of solids and replacing the cover you may wish to add a de-scaling solution. DO NOT use Hydrochloric acid-based de-scalers; this will corrode stainless steel. PURE Humidifier Co. recommends the use of a vinegar, citric acid, diluted phosphoric acid or diluted nitric acid-based cleaner. Follow all precautions on the cleaner packaging. Some cleaners will give off overwhelming and noxious odors, so make sure there is proper ventilation in the working area and the steam outlet pipe is removed so that fumes are not spread throughout the building. After cleaning the tank, flush the tank multiple times to remove any remaining acid. Drain tank completely and allow the tank to air dry for a few hours. This will ensure that the outer protective layer of the stainless steel will passivate and ensure corrosion resistance.

Cover Gasket Replacement Instructions

Installation

Remove cover. Fit the gasket around the entire lip of the tank opening. Cut the gasket 1/8” longer than required, this will ensure proper fit when the cover is clamped back on. Slide the gasket onto lip of tank around the entire perimeter, and seal the ends together with a small amount of silicone.



Plan View of Humidifier

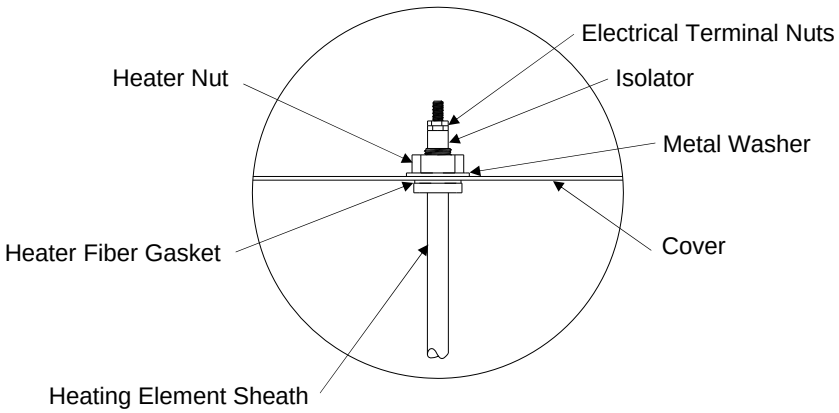
Troubleshooting

Problem	Possible Cause	Recommended Action
Humidifier will not heat	Blown heater fuse(s)	Check and replace.
	Control transformer not producing 24 vac control voltage	Check transformer output. Verify voltage across terminals #9 (hot) and #10 (comm).
	Safety controls open (air flow switch, high-limit, etc.)	Verify that all safety controls are completing the safety circuit.
	Over-temp switch	The level control circuit has interference or is damaged. Mineral on low water float switch may be preventing the switch from opening on low water condition. Consult factory if you are unsure of the source of the problem.
	Faulty humidity sensor	Verify voltage to and from humidity sensor.
	Faulty immersion heater	Check and verify heater voltage and amperage. Compare to diagram or nameplate label ratings.
Humidifier will not fill	No water pressure	Check water supply.
	Drain valve open	Close drain ball valve.
	Faulty water float valve	Check float valve seat for dirt.
Humidifier will not stop filling or is short cycling	Fill valve stuck open	Check float valve seat for dirt. Adjust float ball arm. Check float ball for leaks.
	Drain valve open	Close drain ball valve.

Recommended Maintenance Tool List
7/16” Wrench
5/16” Nut Driver or Socket
11/32” Nut Driver or Socket
5/32” Nut Driver or Socket
Pliers
Flat head screwdriver
Wire stripper
Wire crimper

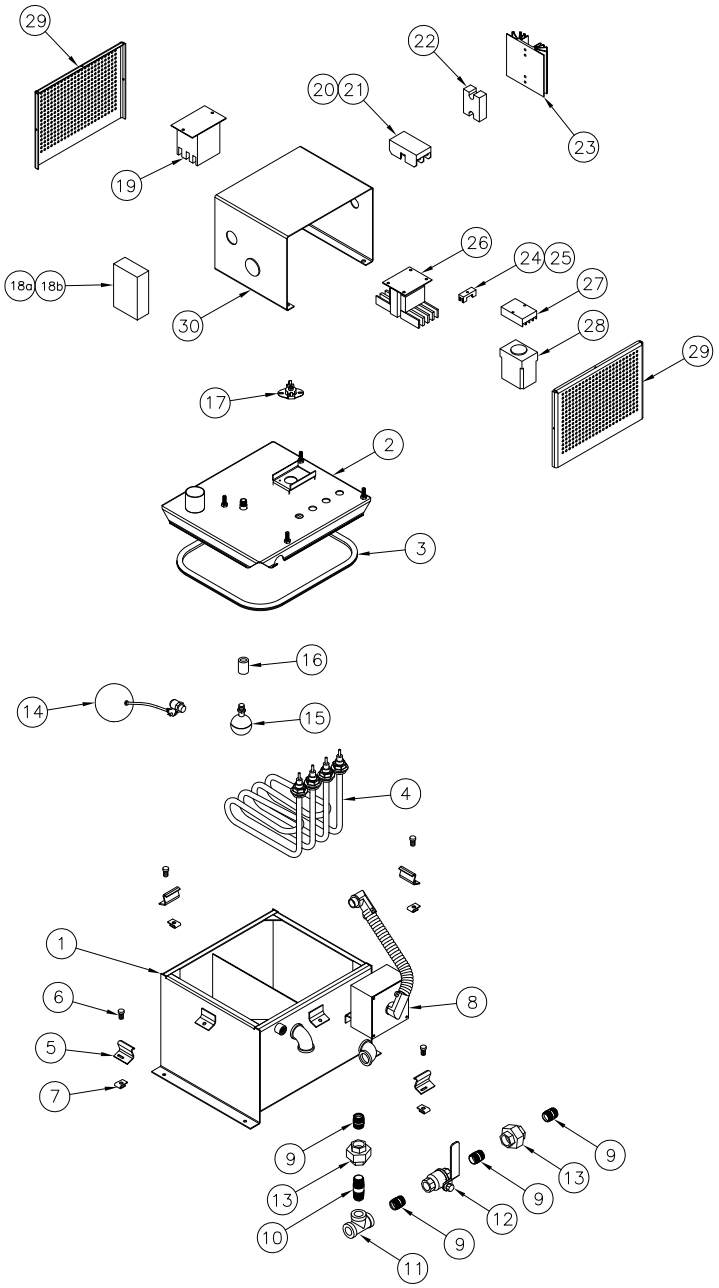
Torque List	
Cover Bolts	18 inch/pounds MAX
Hose Cuff Screws	35-40 inch/pounds MAX when hot
Heater Nut	18-20 **foot/pounds***
Heater Electrical Terminal	35 inch/pounds
* Use a pliers to hold heater sheath from twisting.	

Heater Assembly Sectional Detail



Maintenance Notes

Maintenance Performed	Date	By



Title:	ERDDR Humidifier Exploded View		
Scale: No Scale	Date: Apr. 28, 2010	Drwn: P.R.G.	Dwg No: New ERDDR Expld.

PURE Humidifier

PURE Humididfier Co. "ERDDR" Series
Parts List & Two Year Recommended Spare Parts

Item No.	Description	Part No.	Qty Per Unit	Rec. SpareQty
1	ERDDR Reservior Assembly	97043	1	
2	ERDDR Reservior Cover Assembly	97042	1	
3	Cover Gasket	15520	1	
4	Immersion Heating Element(s)	A	A	
5	Cover Clamp	15930	4	
6	Cover Clamp Screws	15522	4	
7	10-24 U-Nut	15524	4	
8	Electrical Box	15076	1	
9	1/2" NPT Stainless Steel Close Nipple	07038	4	
10	1/2" NPT x 2" Stainless Steel Nipple	07025	1	
11	1/2" x 1/2" x 1/2" Stainless Steel Tee	07084	1	
12	1/2" Stainless Steel Ball Valve	09089	1	
13	1/2" Stainless Steel Union	07040	2	
14	DDR Water Float Fill Valve Assembly	09079	1	
15	DDR Low Water Float Switch	15048	1	
16	1/4" NPT Stainless Steel Coupling	07018	1	
17	Overtemp Protection Switch	15047	1	
18a	TCM-188	12118	A	
18b	MPS-387	12112	A	
19	Heater Contactor	12017	1	
20	Primary Fuse Holder	A	A	
21	Primary Fuse	A	2	
22	SCR Relay	A	1	
23	SCR Heat Sink	A	1	
24	Secondary Fuse Holder	12085	1	
25	Secondary Fuse	12063	1	
26	Step-Down Transformer	A	1	
27	Time Delay Relay	12022	1	
28	Relay Socket	12020	1	
29	Control Box Side	97034	2	
30	Control Box	97035	1	

NOTES/CODES:
A = Part Number and quantity vary with model number.

When ordering replacement or spare parts, please have the following information available: Model Number, Primary Voltage, Serial Number, No. of Heaters & Heater KW and any options (ie, automatic drain, modulating control, insulation, etc.)

Some parts shown may not be required for your unit.

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