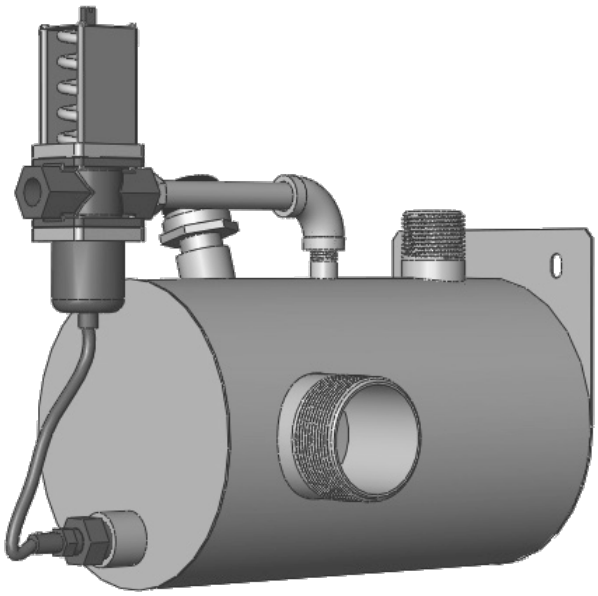
HERRMIDIFIER®
By TRION



READ & SAVE THESE INSTRUCTIONS

Drain Tempering Reservoir

Installation, Operation, & Maintenance

TABLE OF CONTENTS

I. WARRANTY

Limited 2-Year Warranty

Seller warrants the equipment of its manufacturing to be free from defects in workmanship and material for a period of 24 months after shipment or 24 months after initial commissioning, whichever occurs first. This warranty is limited, however, to the repair or replacement of defective equipment, which is returned, freight prepaid, to Seller's factory.

This limited warranty does not apply to any part or component that is damaged in transit or when handling, has been subject to misuse, negligence or accident, has not been installed, operated or serviced according to Seller's instructions, or has been operated beyond the factory-rated capacity or has been altered in any way.

Seller's liability is limited to replacement of defective parts or components and does not include any cost of labor (including, but not limited to, labor required to remove and/or reinstall any defective part) other than TRION/HERRMIDIFIER factory labor.

Some of the Herrtronic series of steam generating humidifiers contains a steam generating cylinder that is to be considered a routinely disposable part to be changed at regular maintenance intervals at the user's expense. This steam generating cylinder is not covered by this Warranty. If, after the first installation of your Herrtronic humidifier, you feel the steam generating cylinder is not operating normally, you should contact your TRION/HERRMIDIFIER Representative with an explanation of the problem. However, in the continuing operation of this humidifier, replacements of this part are your responsibility as part of routine maintenance.

TRION/HERRMIDIFIER shall not be responsible for loss of use of any product, loss of time, inconvenience, or damage to other equipment, or any other indirect or consequential damage with respect to property whether as a result of breach of warranty, neglect, or otherwise.

THE WARRANTIES AND LIABILITIES SET FORTH ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES, EXPRESSED OR IMPLIED, IN LAW OR IN FACT, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE.

The foregoing shall constitute the total liability of seller in the case of defective performance of all or any of the equipment or services provided to Buyer. Buyer agrees to accept and hereby accepts the foregoing as the sole and exclusive remedy for any breach or alleged breach of warranty by Seller.

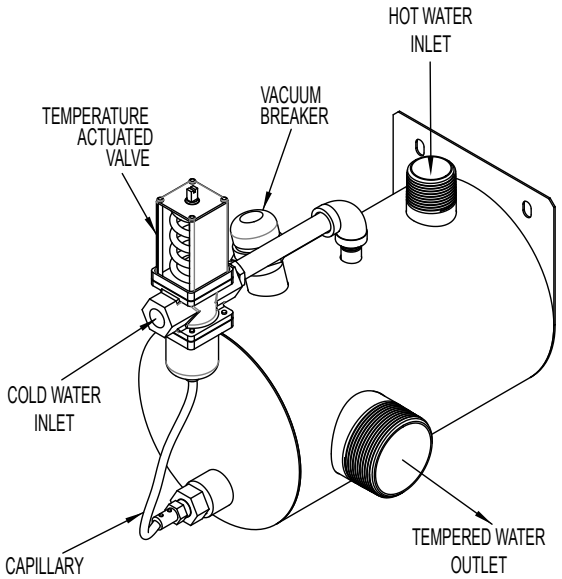
II. INTRODUCTION

HERRMIDIFIER's Drain Tempering Reservoir mixes cool supply water with hot discharge water from steam humidifiers to ensure drain water temperatures are below the limits that may be set for municipal sewer systems and by local/state plumbing codes. HERRMIDIFIER's Drain Tempering Reservoir may be used if municipalities prohibit draining water hotter than 140 °F (60 °C) into their sewer systems. PVC drain pipes are susceptible to damage from excessively hot drain water. The Drain Tempering Reservoir may replace or supplement the drain tempering feature available on Herrtronic steam humidifiers. When used with the Herrmersion RE, the Drain Tempering Reservoir can successfully temper hot discharge water from the skimming port. The integral mounting bracket simplifies installation.

III. OPERATIONAL CHARACTERISTICS:

Hot drain water being discharged from a humidifier enters the Drain Tempering Reservoir through the top threaded connection. The vacuum breaker prevents backflow into potable water systems. Cold supply water enters through the temperature-actuated valve and mixes with the hot drain water. The sensing bulb, located inside the reservoir, ensures that water leaving the Drain Tempering Reservoir is 140 °F (60 °C) or less before entering the buildings drain system.

IV. OPERATIONAL SEQUENCE:

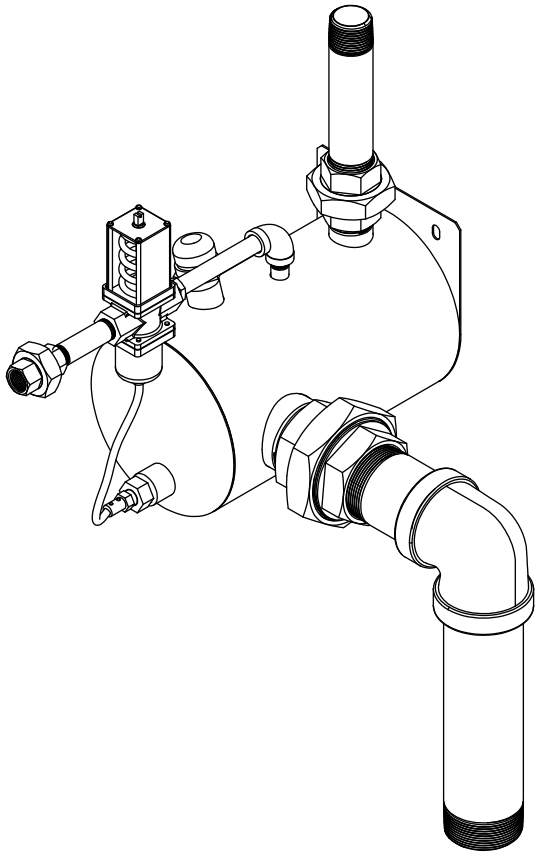


Hot water discharged from a humidifier enters the drain tempering reservoir through the piping connected to the threaded connection on the top. The vacuum breaker prevents backflow.

Cold water enters the reservoir through the temperature actuated valve. The valve sensor is located in the bottom of the reservoir near the discharge port. This ensures that the water leaving the reservoir is less than the temperature that the valve is adjusted to. Most municipalities set this limit at 140 degrees Fahrenheit.

Tempered water exits the reservoir through the side outlet which is connected to the drain piping. The horizontal orientation allows for the drain piping to be pitched.

V. INSTALLATION INSTRUCTIONS:



1. Mount the Drain Tempering Reservoir to the wall or a bracket using the integral mounting holes.
2. Verify that the maximum flow rate of hot water into the Drain Tempering Reservoir will not exceed 6 gallons per minute.
3. There are three piping connections that need to be made to the Drain Tempering Reservoir:
   - Cold Water Supply
   - Hot Water Inlet
   - Tempered Water Drain Outlet
4. Position the Drain Tempering Reservoir to allow the most direct path of piping. This will allow a minimal use of pipe fittings.
5. Install unions as close to the Drain Tempering Reservoir as is practical. This will allow service personnel to easily remove the unit for maintenance and cleaning.
6. Cold Water Supply:
   - The cold water supply connection is 3/8" female pipe thread.

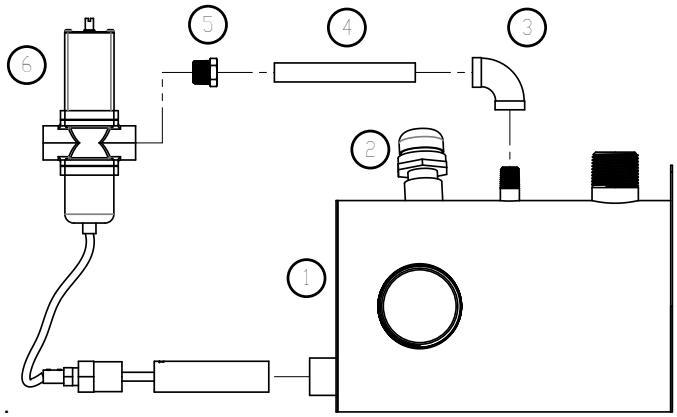
- Connect a 3/8” water line directly into the valve from the main water supply.
- Ensure that adequate pressure (25 psi minimum) will be supplied to the Drain Tempering Reservoir. Do not use water lines that are dedicated to other appliances.
- Install a cold water shut off valve before the service union in the supply line.

7. Hot Water Inlet Connection:
   - The hot water inlet connection is 1” male pipe thread.
   - Run a 1” pipe as directly as possible to the reservoir hot water inlet. If the piping is coming from a horizontal run, ensure that adequate pitch to the Drain Tempering Reservoir is at least 1% (1/8” per foot).
8. Tempered Water Drain Outlet:
   - The tempered water drain outlet is 2” male pipe thread.
   - Run a 2” pipe as directly as possible from the Drain Tempering Reservoir to the drain. Ensure that adequate pitch to the drain is at least 1% (1/8” per foot).
   - Make sure to leave a 1” air gap between the drain piping and the drain.
   - Once installed, simply open the cold water shut off valve. The Drain Tempering Reservoir will temper the drain water whenever hot water from the humidifier enters the reservoir. No electrical connections are necessary.

VI. ADJUSTING THE TEMPERATURE ACTUATED VALVE:

Using a thermometer to measure the tempered water discharging from the unit, turn the adjusting screw to raise or lower the temperature. Raising the valve opening point will increase the tempered water temperature. Lowering the valve opening point will decrease the tempered water temperature. To raise the valve opening point on direct-acting valves, turn the adjusting screw counterclockwise. To lower the valve opening point, turn the range adjusting screw clockwise..

VII. REPLACEMENT PARTS:



.

Item	Description	Part Number
1	Drain Tempering Tank Welded Ass’y	266514-001
2	Vacuum Relief Valve	166524-001
3	Pipe Elbow, Brass (1/4”)	266207-001
4	Nipple, Schedule 40, 1/4” Mnpt	AH-166-4
5	Reducing Bushing, 1/4” To 3/8”	143903-004
6	Temperature Actuated Mounting Valve	266534-001

TRION®

101 McNeill Rd. | Sanford, NC 27330

P: 800.884.0002 | F: 800.458.2379 | www.trioniaq.com | customerservice@trioniaq.com

Form No. OM-DTR Rev. 01/18