Electric Resistance Steam Humidifier
PERFORMANCE AND FEATURES

- Full range: (11-220 lbs/hr) output
- Works with any type of water
- Microprocessor control with easy-to-read backlit display
- Self diagnostic with default display
- Proportional control or ON/OFF
- Accuracy +/- 2 % RH
- Accept all common modulating signals
- Duct pressure up to 10.03" H2O
- Combined capacity up to 1543 lbs/hr
- Anti foaming control
- Integral humidity controller or external control
- High flow cooling fan preventing overheating
- Automatic drain after inactivity
- Fast drain (max. 15 sec)
- Manual drain possible
- Inlet valve with internal filter
- Outlet valve with large orifice for easy-scale elimination
- Self cleaning level control probe
- Option to maintain tank water at (175°F)
- CE marked
- CSA-c-us listed

EASY MAINTENANCE

- Permanent stainless steel tank
- Self cleaning INCOLOY elements repelling scale
- Pivoting tank with intermediary position allowing easy maintenance
- Cooling cycle before maintenance conserves downtime
- Frontal access to all components
- Display message to point out maintenance to do

OPTIONS

- Remote information board
- RS 485 interface with possibility to give number of units for easy BMS control
- High level safety humidistat and sensor
- Steam and condensate hoses
- Steam pipe for standard or short distance absorption
<table>
<thead>
<tr>
<th>Supply V</th>
<th>460V—3ph</th>
<th>480V—3ph</th>
<th>575V—3ph</th>
<th>600V—3ph</th>
<th>No. of Tanks</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTH Model</td>
<td>lbs/hr A Kw</td>
<td>lbs/hr A Kw</td>
<td>lbs/hr A Kw</td>
<td>lbs/hr A Kw</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>15</td>
<td>7</td>
<td>5</td>
<td>17</td>
<td>7</td>
</tr>
<tr>
<td>15</td>
<td>36</td>
<td>16</td>
<td>12</td>
<td>40</td>
<td>16</td>
</tr>
<tr>
<td>20</td>
<td>52</td>
<td>22</td>
<td>18</td>
<td>56</td>
<td>23</td>
</tr>
<tr>
<td>30</td>
<td>73</td>
<td>31</td>
<td>25</td>
<td>79</td>
<td>33</td>
</tr>
<tr>
<td>40</td>
<td>88</td>
<td>38</td>
<td>30</td>
<td>96</td>
<td>40</td>
</tr>
<tr>
<td>50</td>
<td>109</td>
<td>47</td>
<td>37</td>
<td>119</td>
<td>49</td>
</tr>
<tr>
<td>60</td>
<td>124</td>
<td>54</td>
<td>43</td>
<td>135</td>
<td>56</td>
</tr>
<tr>
<td>70</td>
<td>145</td>
<td>63</td>
<td>50</td>
<td>158</td>
<td>66</td>
</tr>
<tr>
<td>80</td>
<td>176</td>
<td>76</td>
<td>60</td>
<td>192</td>
<td>79</td>
</tr>
<tr>
<td>90</td>
<td>197</td>
<td>85</td>
<td>68</td>
<td>215</td>
<td>89</td>
</tr>
<tr>
<td>100</td>
<td>218</td>
<td>94</td>
<td>75</td>
<td>237</td>
<td>98</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supply V</th>
<th>230V—1ph</th>
<th>208V—3ph</th>
<th>230V—3ph</th>
<th>No. of Tanks</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTH Model</td>
<td>lbs/hr A Kw</td>
<td>lbs/hr A Kw</td>
<td>lbs/hr A Kw</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>13</td>
<td>20</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>18</td>
<td>28</td>
<td>6</td>
<td>14</td>
</tr>
<tr>
<td>18</td>
<td>32</td>
<td>31</td>
<td>11</td>
<td>40</td>
</tr>
<tr>
<td>25</td>
<td>46</td>
<td>44</td>
<td>16</td>
<td>56</td>
</tr>
<tr>
<td>36</td>
<td>65</td>
<td>62</td>
<td>22</td>
<td>79</td>
</tr>
<tr>
<td>44</td>
<td>78</td>
<td>75</td>
<td>27</td>
<td>96</td>
</tr>
<tr>
<td>51</td>
<td>92</td>
<td>88</td>
<td>32</td>
<td>112</td>
</tr>
<tr>
<td>62</td>
<td>111</td>
<td>106</td>
<td>38</td>
<td>135</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of Tanks</th>
<th>Dimension (L x H x W)</th>
<th>Net Weight lbs.</th>
<th>Full Weight lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>32 x 30 x 14</td>
<td>77</td>
<td>143</td>
</tr>
<tr>
<td>2</td>
<td>48 x 30 x 14</td>
<td>143</td>
<td>268</td>
</tr>
</tbody>
</table>

Disconnect the steam hose and remove it from the cabinet. Tilt tank forward to first stop.
Unlock the tank cap and set electrode elements on top of the humidifier upside down. (No need to disconnect the wiring)
The fast draining followed by the cool cycle causes the electrode scale to fall off.
Adjust the flexible scale collection bag on the tank.
Swing the tank completely down, all the scale will fall into the collection bag.

Simple Maintenance!

Humidity Source, LLC
90 Dayton Ave. Suite 58 Passaic, New Jersey 07055
TEL 973-916-1001 FAX: 973-916-0770
## Contents

**Unit wall installation**
- Dimensions 3
- Wall mounting 4-5
- Water connection 6
- Steam output 7
- Condensate draining 8
- Steam distribution pipe 9
- Steam pipe positioning 10-11
- Absorption distance 12

**Electrical installation**
- Electrical wiring 13-15
- Connecting options 16

**Software assistant**
- Start up 17-18
- Humidifier configuration menu 19-20
- Humidifier status menu 21
- Changing unit configuration 22-23
- Alerts and warnings 24

**Maintenance**
- Tank maintenance 25-26
- Valves maintenance 27
ElectroVap RTH
Dimensions

Unit mounting

RTH 5 to 50

<table>
<thead>
<tr>
<th>Overall dimensions (in)</th>
<th>Steam outlet (in)</th>
<th>Drain outlet (in)</th>
<th>Weight empty (lbs)</th>
<th>Weight full (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>31.5</td>
<td>1</td>
<td>12.6</td>
<td>a</td>
</tr>
<tr>
<td>B</td>
<td>29.6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>13.4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

RTH 60 to 100

<table>
<thead>
<tr>
<th>Overall dimension (in)</th>
<th>Steam outlet (in)</th>
<th>Drain outlet (in)</th>
<th>Weight empty (lbs)</th>
<th>Weight full (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>47.3</td>
<td>1</td>
<td>10.0</td>
<td>a</td>
</tr>
<tr>
<td>B</td>
<td>29.6</td>
<td>2</td>
<td>18.4</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>13.4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Unpack the unit and check for any damage. A drilling template is supplied with the packing: make sure to locate it before throwing away the packing material.

Damage to packing and/or unit must be reported immediately to the trucker. Save all packing materials for their inspector.

Provide free space all around the unit, 3 to 3.5 ft. from the floor to the bottom of the humidifier and at least 3 ft. above and 2 ft. on the right hand side for allowing easy access for maintenance.

Position the supplied drilling template against the mounting wall and mark the mounting holes. Drill the 7 (seven) holes and insert screws and bolts appropriate for support (3 across top and 4 behind tank).

Install the 3 (three) upper screws allowing about 1/2 in. for hanging the cabinet. Hang the cabinet and tighten the upper screws for securing the mounting.

Loosen the release knob (1) a little, tip the stainless steel tank (2) down until the steel restraining cord is tight (3).

Disconnect the water level wires (4).
(continued)

Unlock the tank cover and lay it on the top of the humidifier upside down.

Release the steel restraining cord while holding the tank.

Let the tank gently tip all the way down.

Insert lower screws at 4, 5, 6 & 7 then tighten all seven mounting screws.

Once all the screws are tightened, you can:

Tip the tank back to intermediate position and attach the steel restraining cord.

Replace the tank cover and secure the 4 fasteners.

Reconnect the high water level wires.

Set the humidifier tank back to upright position and tighten tank release knob 1 (see page 4).
ElectroVap RTH
Water Connection

Unit mounting

A fresh cold water service should be used to supply the unit. The water pressure should be between 15 and 90 psi and should not exceed 100°F in temperature.

The water supply connection is through the bottom of the unit. The humidifier is delivered with a 20 in. long water inlet hose, with a 3/4 in. threaded female connector for the cold water supply.

A manual shut-off valve and a check valve (not included) should be located on the cold water service connection to the unit.

Information about the water quality:

- Chloride concentration < 75 mg/l
- Phosphate concentration < 5 mg/l
- Low concentration of CO2.
- Organic elements in low concentration

Tap water or raw water

The water total dissolved solids (TDS) may be up to 23 gr/gal (400 ppm). Check with the local water company. For tank maintenance, refer to the maintenance page.

Softened water

The water TDS can be from 3.5 gr/gal (60 ppm) up.

Demineralized water

The RTH humidifier can run with demineralized water of 30 µS minimum (0.7 gr/gal or 12 ppm).
ElectroVap RTH
Steam Output

Installation

Use only high quality, low pressure steam hose which is able to withstand steam humidifier temperatures.

The steam hose alone may be used for distances up to 6 ft. If the distance from the humidifier to the duct is greater than 6 ft., insulated rigid copper tube should be used, with sections of steam hose for connectors.

All steam lines must be pitched so that condensate which forms in the lines will be drained back to the steam generator or to a separator & trap in the steam line.

a. Provide vertical rise at least 20 in. before bending the hose to horizontal.

b. The steam hose should be rigidly supported to promote rapid draining.

c. Steam hose (radius of bend should be 30 in. Minimum.)

d. Duct work.

e. Obstacle.

f. A condensate separator and trap is needed at this point to drain condensate.

g. 8 mm condensate hose. Fill the condensate hose trap with water before starting the humidifier to prevent steam from escaping.

h. Humidifier height (see page 3.)

Number of steam outlets:
RTH 5 to 20 = 1 outlet  60mm (2.4")
Reducer may be used (see page 9)

RTH 30 to 50 = 1 outlet  60mm (2.4")

RTH 60 to 100 = 2 outlets  60mm (2.4")

The RTH humidifier can work with duct pressure up to 10" of water column.
**ElectroVap RTH Condensate Draining**

**Installation**

**Drain Connections**

Use high quality steam hose capable of steam humidifier temperatures up to 212 deg F.

**RTH 5 to 100**: 3 ft. of 40mm hose with 3 hose clamps provided.

This hose is designed for connecting the humidifier to the drain. Periodic replacement may be recommended.

If rigid piping is used, use copper or heat resistant PVC material (212°F).

The drain hose must be free from any obstacle particularly when it comes to connecting several units.

It is recommended the piping be offset from the underside of the unit as shown. This will prevent any steam and/or condensation from rising directly into the cabinet.

A funnel can be used as well provided it is offset from the underside of the humidifier and that a drain trap is made as per the diameter of the draining hose.

**Important**: keep a minimum pitch of 10°
Steam from the humidifier enters the duct or an air handling unit via a steam distribution pipe. For optimum absorption of the steam, select the longest possible pipe. Use multiple pipes if necessary.

**HumidiPack ®**

The HumidiPack ® is a pre-fabricated steam humidifier panel made to suit the duct or AHU conditions and ready to be installed.

It allows for absorption distances as short as 2 ft.

### Steam Distribution Pipe DL

<table>
<thead>
<tr>
<th>Steam Distribution Tube Model for: RTH 5 to 20</th>
<th>L1</th>
</tr>
</thead>
<tbody>
<tr>
<td>L4029</td>
<td>12</td>
</tr>
<tr>
<td>L4059</td>
<td>24</td>
</tr>
<tr>
<td>L4079</td>
<td>31</td>
</tr>
<tr>
<td>L40100</td>
<td>39</td>
</tr>
<tr>
<td>L40125</td>
<td>50</td>
</tr>
<tr>
<td>L40150</td>
<td>59</td>
</tr>
</tbody>
</table>

A 2.4 in. to 1.6 in. reducer is used with distribution pipe of 1.6 in. for ElectroVap RTH 5 to 20.

### Steam Distribution Pipe DL-1 to DL-10

<table>
<thead>
<tr>
<th>Steam Distribution Tube Model for: RTH 30 to 90</th>
<th>L1</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL-1</td>
<td>10</td>
</tr>
<tr>
<td>DL-1.5</td>
<td>16</td>
</tr>
<tr>
<td>DL-2</td>
<td>22</td>
</tr>
<tr>
<td>DL-3</td>
<td>34</td>
</tr>
<tr>
<td>DL-4</td>
<td>46</td>
</tr>
<tr>
<td>DL-5</td>
<td>58</td>
</tr>
<tr>
<td>DL-6</td>
<td>70</td>
</tr>
<tr>
<td>DL-7</td>
<td>82</td>
</tr>
<tr>
<td>DL-8</td>
<td>94</td>
</tr>
<tr>
<td>DL-9</td>
<td>106</td>
</tr>
<tr>
<td>DL-10</td>
<td>118</td>
</tr>
</tbody>
</table>
Installation

Install the distribution pipe on the duct with 4 screws.

A minimum distance of 12 in. between the center of the steam distribution pipe and the top of the duct should be allowed. Where the distribution pipe is installed at an angle of between 30° and 45°, this may be reduced to 6 in.

Where the application requires two distribution pipes, the above-mentioned recommendations should be observed keeping a minimum space of 6 in. between the pipes.

(d) is the minimum distance between the distribution pipe and any obstacle within the duct (see table on page 12).

Where a steam pipe is installed after a bend, it should be positioned in the main air flow.

In vertical ducts where the air flow is upward or downwards, the steam distribution pipe should be mounted at an angle of 15° from vertical.
ElectroVap RTH
Steam Pipe Positioning

Installation

Pipe above humidifier RTH 5 to 50

Pipe under humidifier RTH 5 to 50

HumidiPack ® insertion in duct RTH 5 to 50

Insertion in duct RTH 60 to 100

Draining

12 in. min.

8 in. min.

Trap must be full of water before starting the unit

HumidiPack ® insertion in duct RTH 60 to 100

Condensate

Condensate

Condensate

Condensate

Air Flow

Air Flow

Air Flow

Air Flow

11
**ElectroVap RTH**

**Absorption Distance**

**Installation**

In order to determine the absorption distance, this table can be used if you have the following:

RH1 = relative humidity of the air before humidification.

RH2 = relative humidity of the air after humidification in %.

Delta RH = difference between RH1 & RH2

**How to use the table**

Determine the difference between the relative humidity (RH2) after the humidification and the relative humidity (RH1) before humidification. The intersection between the delta RH value and RH2 gives the evaporation distance in inches.

The drawings show the distance (D) in inches that should be allowed between the distribution pipe and the first obstacle.

If the required distance is not available, it is possible to install two pipes in parallel to give better steam distribution.

A multi-steam distribution panel may be used for short absorption distances. See catalog.

A high limit humidistat should be installed to prevent excessive humidity levels in the duct.

**Note**: The absorption distances given in the table are for temperatures between 50°F and 78°F.

If accurate values cannot be determined or estimated, a distance of 6.5 ft. should be used as a safe minimum distance between distribution pipes & any obstruction.

### Absorbing Distance In Inches (D)

<table>
<thead>
<tr>
<th>RH2 in %</th>
<th>Delta RH % (RH2—RH1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5  10 15 20 30 40 50 60 75 90</td>
</tr>
<tr>
<td>40</td>
<td>12 16 20 20 28 30 40 48 50 60</td>
</tr>
<tr>
<td>50</td>
<td>16 20 20 28 32 36 40 43 48 50</td>
</tr>
<tr>
<td>60</td>
<td>16 20 24 28 36 40 43 50 60 70</td>
</tr>
<tr>
<td>70</td>
<td>20 24 28 36 40 48 50 60 70 80</td>
</tr>
<tr>
<td>80</td>
<td>20 28 36 40 48 55 63 71 80 90</td>
</tr>
<tr>
<td>85</td>
<td>24 32 40 40 55 63 71 80 91 100</td>
</tr>
<tr>
<td>90</td>
<td>28 40 48 55 60 80 90 100 110 120</td>
</tr>
<tr>
<td>95</td>
<td>40 55 67 80 100 114 126 140 154 170</td>
</tr>
</tbody>
</table>

Before or after fan

Before/after filters

Duct transitions

Elbows and branches

Controls and sensors
ElectroVap RTH
Electrical Wiring

Installation

Power supply connection

Beware! Before connecting the power supply, make sure that the main breaker is the same capacity as the unit requirements.
ElectroVap RTH
Electrical Wiring

Installation

NOTE: External power protection (fuse or circuit breaker) must be provided in accordance with all national and local codes.
ElectroVap RTH Control Connection

**Installation**

**Dip Switch S1:**
To select the control signal (see above configuration drawings)

**RJ45 connector:** provides for a computer connection

**X6 connector:** 21-22-23-24-25

**X5 connector:** 18-19-20

**Main board # 500101/03**
A NO or NC contact can be selected by simply changing the position of the connector.

Connector X22 (36-37-38): steam production information dry contact
Connector X21 (33-34-35): general fault information dry contact
Connector X20 (30-31-32): cylinder maintenance information dry contact

Option - RS485 or RS422 or RS232 interface

CHARACTERISTICS:
- RS485: 2 wires half duplex (+GND) Max. distance 4000 ft.
- RS422: 4 wires half duplex (+GND) Max. distance 4000 ft.
- RS232: 2 wires half duplex (+GND) Max. distance 800 ft.
- Bias: 620 Ohms pull-up & pull-down (jumpers selectable)
- Termination: 120 Ohms (jumper selectable)
- Protocol: JBUS or MODBUS (data asynchronous of 8 bits, no parity bit, 1 stop bit, CRC) - Speed: 1200, 2400, 4800, 9600 baud.
- Mounting: on unit Din rail.
- Dimensions: 3.7 x 2 in.
ElectroVap RTH

Front panel identification

Software assistant

- Alphanumerical Display
- Scroll Down
- Scroll Up
- Select Menu
- Manual Drain
- Steam Production Light
- ON/OFF Switch
- Power Light
1. After completion of the installation inspection, turn on the water supply to the unit.

2. Switch on the main power supply.

3. The power lamp should be illuminated.

4. Switch the power supply I/O switch on I. The display will default to show the rate of steam produced.

Display operation:

1. Pressing the SELECT button repeatedly will rotate between the three main menus.

2. Enter the desired menu by pressing the up or down button.

The unit provides three menus:

HUMIDIFIER CONFIGURATION
This menu provides information only on the setup of the humidifier. No parameters can be changed from within this menu.

HUMIDIFIER STATUS
This menu provides information on the operating status of the humidifier. No parameters can be changed from within this menu.

CHANGING UNIT CONFIGURATION
This menu allows adjustments to the setup or operating parameters of the unit. Access to the changing humidifier configuration menu is protected by an access code to guard against unauthorized access. See Configuring the unit.
ElectroVap RTH
Humidifier Configuration Menu

Software assistant

STARTING UP

SOFTWARE VERSION

This indicates the version software in use

MENU: HUMIDIFIER CONFIGURATION

Press the key for changing menu at any time

HUMIDIFIER

This shows the model of humidifier

PRODUCED STEAM

If using an external proportional sensor/ controller
If using ON/OFF or 2, 3 or 4 step control
If using an external proportional humidity sensor only

SET POINT: ......% MEASURED RH: ......%

EXTERNAL REGULATION SIGNAL Y: ......V

This shows the control signal demand from 20 to 100 % of capacity.

STEAM DEMAND

This shows the temperature inside the tank

TANK TEMPERATURE

This shows steam production remaining (in KG) before service is required. This is a maintenance planning tool.

PRODUCTION BEFORE CLEANING ...... KG

This shows the working time is hours that is left before maintenance. This is a maintenance planning tool.

TIME BEFORE MAINTENANCE ...... H

This shows the number of working hours since last maintenance.

TIME COUNTER ...... H
ElectroVap RTH
Humidifier Configuration Menu

(continued)

- Press the key to change menu at any time.

STEAM COUNTER

DRAIN AFTER ______ HOURS

YES

HOURS

ELECTRICAL POWER ______ KW

NO
ElectroVap RTH

Humidifier Status Menu

This shows the selected control signal

This shows the total steam production since humidifier start-up

This indicates the total operating hours since humidifier start-up

This shows the type of water (city, softened, demineralized) selected for this humidifier.

This indicates the selected voltage for the humidifier

This shows the maximum power necessary for this humidifier

- Press the key for changing Menu at any time.
ElectroVap RTH
Changing Unit Configuration Menu

Software Assistant

MENU: CHANGING UNIT CONFIGURATION

DIAL ACCESS CODE: XXX

SELECTED CONTROL SIGNAL: .........

STEAM CAPACITY LIMIT: .... %.

SET POINT ADJUSTMENT: .... %HR

PROPORTIONAL BAND ADJUSTMENT: .... %

MAINTENANCE FREQUENCY: .... KG/ST

MAINTENANCE INTERVAL: .... H

WATER TEMP. AT 65°C: YES / NO

WATER TEMP MAINTAINED AT: .... °C

TANK COOLING: YES / NO

CYCLIC DRAINING TIME: ....

DRAINING IF LONG STOP: YES / NO

To gain entry, dial access code 2.3.4:
Press the key and the first digit will flash.
Using the keys enter the first digit of the access code and then press the key to confirm. The next digit will start to flash. Repeat for a second and third digit of the access code.

Allows selection of the control signal you wish to use.

Limits steam output from 100% down to 50% of units maximum.

If on-off humidistat or external proportional sensor/controller are used, set point & prop band are not set on the humidifier display, but on the humidistat or external control.

Maintains the water tank temperature at 150°F while the humidifier is not producing steam. For freeze protection and / or faster steam production for closer humidity control.
CHANGING THE MAXIMUM STEAM OUTPUT:

Scroll menu to get this message, press the key and the value will flash.
Using the and keys, adjust the maximum output from 100% to 50%.
Once the desired value is reached, press the key to confirm.
The display will show:
ElectroVap RTH Alerts and Warnings

Alerts

What you should do when:

**WATER MISSING**

- **Humidifier status**: unit stopped

Switch the humidifier off
Check internal water piping.
Check water level detection system
Switch the humidifier on again.

**Maintenance warning**

What you should do when:

**TANK AND DRAIN VALVE**

- **Humidifier status**: unit stopped

Switch the humidifier off
See the Maintenance section of this manual and follow the maintenance procedure
Switch the humidifier on again.

- The humidifier must be reinitiated by pressing these buttons simultaneously.
- The humidifier can work again and the maintenance timer can be reset at the desired value (see page 22, 23).

The windows shows:
Press on \( \text{ }\) to go back to the “Humidifier Configuration” menu.
ElectroVap RTH
Tank Maintenance

Maintenance

Drain the tank by pressing the manual drain button (Picture 1). Wait for complete draining and allow the tank to cool down (in case this feature has been enabled).

Cut off the power supply at the disconnect switch and switch off the RTH humidifier.

Screw off the front door, lift it a little and take it away. Remove the black steam hose from the steam tank (Picture 2) and draw it out of the humidifier.

Loosen the black tank release knob and remove the drain hose (Picture 3).

Swing the tank to intermediate position (Picture 4).

Unlock the 4 locks of the tank (Picture 5).

Take off the water level tank cap (Picture 6).

CAUTION: do not use any solvent to clean the water level tank. If the sensor needs being attended, use teflon material only.
Lift the tank cover (note the positioning mark) and lay it upside down on the top of the humidifier (Picture 7). Remove the high water level tank and lay it on the top of the humidifier.

Adjust the collection bag on the tank rim and attach the handles to the tank lateral hooks (picture 8).

Release the tank holding steel cord and swing the tank down: the mineral deposit falls into the flexible container. (Picture 9).

Remove the collection bag and swing the tank back to intermediate position. Attach the holding steel cord to the tank. (Picture 7)

Grease the square tank gasket with silicone grease.

**TAKE CARE:** the tank gasket must be changed if found flawed. Cut used gasket with a knife or cutter; clean out the tank rim with acetone and secure the new gasket with heat resistant glue (320°F) appropriate to steel material.

Put the tank cover back onto the tank body taking care to align the positioning mark and put back the high water level tank cap. Swing the tank up (Picture 10).

Then tighten up the black knob and reconnect the drain and steam hoses.

The humidifier is now ready for operation. (Picture 11)
ElectroVap RTH
Valve Maintenance

Drain valve maintenance

Drain steam tank out and switch unit off.

Remove screw 1 then swing coil holder 2 to the left.

Remove coil 3 from the actuator assembly 4 (don’t miss the small parts).

Dismount assembly 5, clean valve 6 and rinse body 7.

Reassemble all the parts.

Change parts if needed.

Swing coil holder 2 back and tighten screw 1.

Inlet valve maintenance

Turn the water supply off and switch humidifier off.

Remove water inlet hose.

Take out filter 2 with a pair of pliers and flush it with clear water.

Pull coil 3 out with the help of a small screwdriver.

Flush with clear water the internal part of valve body 4.

Change parts if needed.

Reassemble.