

Hot Yoga Climate Tower

HVH Series

Installation Instructions and User Manual



Foreword

Neptronic Company Overview

Founded in 1976, we're a private corporation that designs, manufactures and distributes products for the HVAC industry. Our product line includes intelligent controllers, electronic actuators, actuated valves, humidifiers and electric heaters.

Our products are designed and manufactured by over 250 dedicated employees in our 7,500 m² (80,000 ft²) state-of-the-art facility located in Montreal, Canada. Using a vertical integration model, our entire manufacturing chain is under one roof from software and hardware development, to SMT circuit board assembly, to sheet metal fabrication, to product testing ensuring that our products are engineered to last.

We currently hold several national and international patents and with our continued commitment to research and development, we provide innovative products and technologies for the ever-evolving challenges of the HVAC industry. Exporting over 70% of our sales, we have an exclusive distribution network around the globe that provides comprehensive solutions to our worldwide customers.

About the Manual

These installation and operation instructions have been developed to facilitate the installation of the Hot Yoga Climate Tower.

- The strict application of these instructions will ensure the conformity of your installation and operation as per the manufacturer's recommendations.
- The application of these instructions is one of the conditions for the application of the warranty.
- The application of these instructions does not ensure, at any time conformity to procedures, regulation or local codes, regarding electric installation and connection to local water supply.

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Electricity



All work concerned with electrical installation **MUST** only be performed by skilled and qualified technical personnel such as an electrician or a technician with appropriate training). The customer is always responsible for ensuring the suitability of the technical personnel.

Please observe the local regulations concerning the provision of electrical installations.

Correct Use

Neptronic systems and its products are designed only for heating, ventilation, and humidification use. Any other application is not considered appropriate for the intended purpose. The manufacturer cannot be made liable for any damage resulting from incorrect use.

General Warranty

To view the complete Neptronic General Conditions of Sale and Warranty, go to www.neptronic.com/Sales-Conditions.

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Overview

Product Description

Complete turnkey Hot Yoga studio system. A fully integrated system that includes ventilation, heating, humidification, fresh air, CO2 management (optional) and energy conservation with closed proportional control, and easy installation and maintenance. Designed to reliably maintain 40°C with 50%RH in a space of up to 200m³. The unit can be easily relocated with its built-in casters. Air supply can come directly from the room or from a local duct network with or without outside air intake.

The Hot Yoga Climate Tower is a combination of the following components:

- **Modulating Electric Heater.**  The climate tower comes with a built-in modulating electric heater with a tubular element that provides the required heating.
- **3-Speed or ECM Fan.**  The 3-speed or ECM fan ensures an even heating and distribution of air.
- **Resistive Electric Steam Humidifier.**  The Hot Yoga Climate Tower comes with a built-in resistive electric steam humidifier that generates the required steam to maintain the desired humidity level of 50% RH. The Evaporation chamber is an assembly of a metal cylinder and cover, equipped with one or several heater elements. This evaporation chamber produces the required steam.

Features

The following are the features of HVH Series Hot Yoga Climate Tower:

- 3-in-1: Heating, ventilation and humidification
- External/remote temperature/humidity sensor
- 3-speed fan
- Room or outside air input
- Built-in thermostat with LCD
 - Displays temperature, humidity and fan status
 - Adjust temperature and humidity setpoints
 - Turn unit on/off
 - Change filter and system status indications
- Easy to install and to maintain
- Built-in casters enable easy wheeling from room to room
- Optional aroma essence distributor
- Optional 90° elbow and round adaptor

Guru Series

The HVH Guru Series has all the features listed under Standard section and the following additional features:

- Low noise modulating ECM fan
- Outside air mixing based on CO2 sensor
- Intelligent filter replacement detection
- Optional anti-germ UV light
- Optional secondary heater to reheat outside air

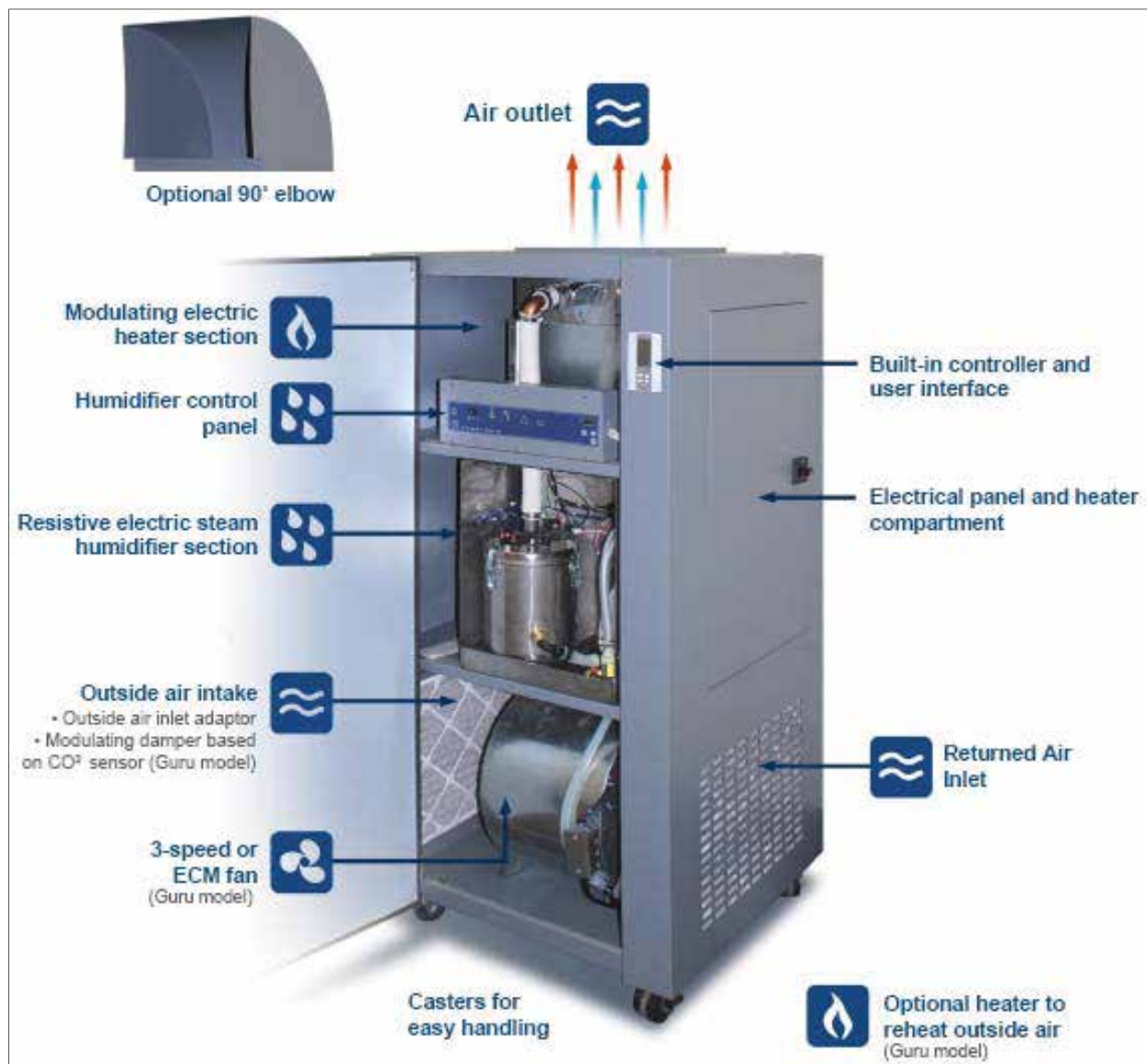


Illustration 1 - HVH Hot Yoga Climate Tower Components Overview
TBD

Technical Specifications

Power Supply Information – North America

Table 1 - Power Supply Information: North America

Description		HVH6	HVH7	HVH10	HVH12
Heater	Power	6 kW	7.5 kW	10 kW	12 kW
	Current	208V/3ph = 17A (20A fuse) 240V/1ph = 25A (30A fuse)	208V/3ph = 21A (25A fuse) 240V/1ph = 32A (40A fuse)	28A (40A fuse)	34A (40A fuse)
	Delta T	13°F [24°C]	16°F [29.6°C]	21°F [39.6°C]	25°F [47.5°C]
Humidifier	Power	6 kW		10 kW	16 kW
	Current	208V/3ph = 17A 240V/1ph = 26A		28A	45A
	Capacity	18 lb/hr [8 kg/hr]		30 lb/hr [14 kg/hr]	48 lb/hr [22 kg/hr]
Supply	Vac/ph	208/3ph (x1)		208/3ph (x2)	
		240/1ph (x1)			
Total	Current	208V/3ph = 34A 240V/1ph = 51A	208V/3ph = 38A 240V/1ph = 58A	56A	79A

Power Supply Information – Europe

Table 2 - Power Supply Information: Europe

Model		HVH6	HVH7	HVH10	HVH12
Heater	Power	6 kW	7.5 kW	10 kW	12 kW
	Current	26A (30A fuse)	33A (40A fuse)	15A (20A fuse)	18A (20A fuse)
	Delta T	24°C	29.6°C	39.6°C	47.5°C
Humidifier	Power	7.5 kW		7.5 kW	15 kW
	Current	33A		11A	22A
	Capacity	10 kg/hr		10 kg/hr	20 kg/hr
Supply	Vac/ph	230/1ph (x1)		400/3ph (X2)	
Total	Current	59A	66A	26A	40A

Electric Heater Technical Specifications

Table 3 - Electric Heater Technical Specifications

Specification	Description
Heater Type	Tubular Elements
Maximum Inlet Air Temperature	81°F (27°C)
Maximum Outlet Air Temperature	200°F (93°C)
Control Signal	Electric - On/Off
Contact delay (ON/OFF stage(s))	ON: 1 minute; OFF: 30seconds

Enclosure Specifications

Table 4 - Hot Yoga Climate Tower Enclosure Specifications

Description	Hot Yoga Climate Tower
Enclosure type	Stand alone with all stainless steel construction
Size (W x D x H)	75cm x 81cm x 160cm (29.5" x 32" x 63")
Weight	90kg (198lb) [to be confirmed]
Air inlet dimensions	89cm x 51cm (35" x 20") Optional 90° elbow and round adaptor
Air outlet dimensions	Square 36cm (14") or round 41cm (Ø16") Vertical up or horizontal
Humidifier evaporation chamber material	Stainless steel
Humidifier base/pan material	
Air duct and heater material	
Option	Flexible textile distribution duct

Handling and Packing

Handling and Lifting

Lifting or handling MUST be carried out by trained and qualified personnel. Ensure that the lifting operation has been properly planned, assessed for risk and that the equipment has been checked by a competent Health & Safety representative, and effective control measures are in place.



It is the customer's responsibility to ensure that the operators are trained in handling heavy goods and to enforce the relevant lifting regulations.

The Hot Yoga Climate Tower MUST always be handled and lifted with care and should remain in its original packaging for as long as possible prior to installation.

The Hot Yoga Climate Tower package may be carried using a forklift from the underside. Caution should be exercised to ensure balanced load before lifting.

Unpacking

The Hot Yoga Climate Tower is shipped inside a wooden crate. Remove packing and skids prior to commissioning.



WARNING: Risk of failure or malfunction. Do not operate electric heater if heating elements have been damaged during transport or handling.

Do not proceed with modification or alteration to internal electric connection or component of the electric heater. Any non-authorized modification will void the warranty.

Mechanical Installation



Caution: Risk of damage and malfunction. Do not block air flow to heating elements as insufficient air flow may damage heating elements and controls on the electric heater.



WARNING: Risk of electric shock. Disconnect the Hot Yoga Climate Tower from electric supply before commencing installation.

Fan and Air Inlet

Fan spec = 1500CFM

The requirements for a gym are 20CFM of fresh air per person as per IAQ standards from ASHRAE (#???)
TBD

Optional Outside Air

TBD

Water Supply Installation



Water supply installation should conform to local codes and regulations. Any installation work must be carried out by suitably qualified personnel.

The operation of humidifier, which is part of a complete Hot Yoga Studio system with ventilation, heating, and humidification is independent of variable water conditions such as soft or hard water. Therefore, for normal operation, pre-treatment of water is not necessary.

Adhere to the following water inlet specifications:

- Inlet water pressure: 10 to 70 psig (0.7 to 4.8 bars)
- Maximum Water Temperature: 85°F (30°C)
- Standard copper water line connection: 3/8"

To facilitate servicing, install a shut-off valve (not supplied) in the water supply line close to the humidifier. It is recommended to install a standard water strainer in the water supply line.

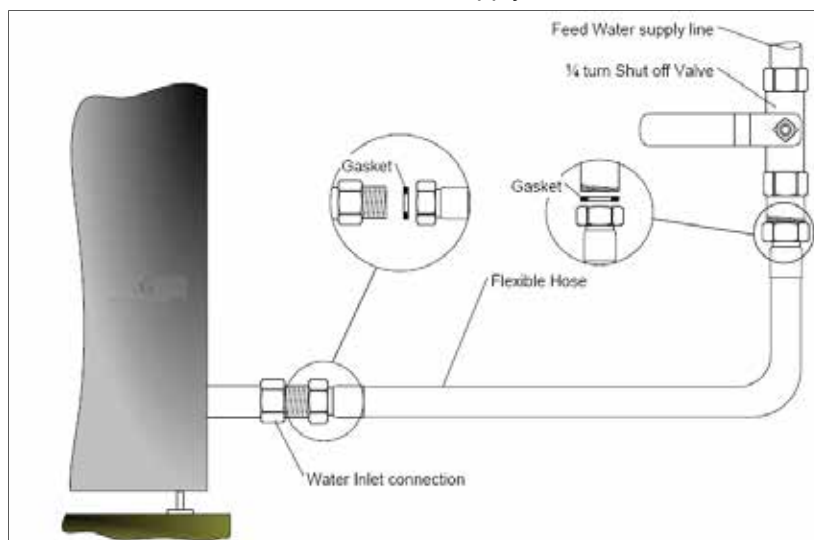


Illustration 2 - Water Supply Connections

Water Drain Connection



Water drain installation should conform to local codes and regulations. Any installation work must be carried out by suitably qualified personnel.

- Evaporation chamber water drain temperature: 140°F (60°C).
- Ensure that the drain pipe dimension is sufficient.
- Water drain outlet connection should be connected to drain pipe of sufficient size.
- Minimum water drain pipe gradient should be ¼" (1.5mm) in 40" (1m) horizontal run.
- No drain trap is required.
- Connect the supplied stainless steel braided hoses to the water supply inlet and the drain outlet as shown below.

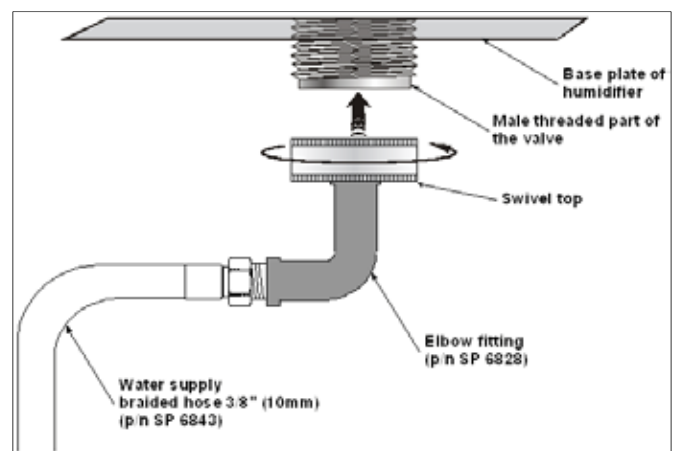
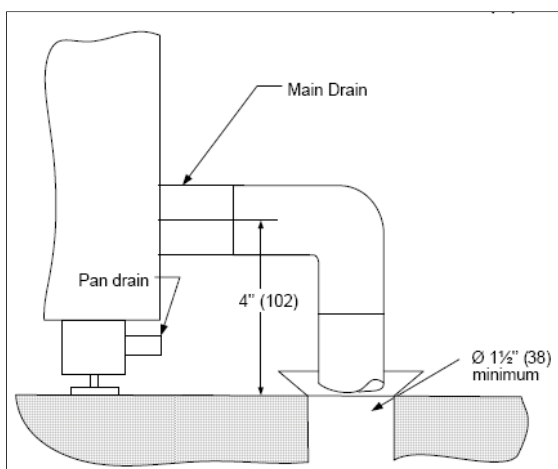


Illustration 3 - Drain Connections

Power Supply Connections



WARNING: Risk of electric shock. Disconnect the appliance from electric supply before commencing installation. Any installation work must be carried out by suitably qualified personnel.

Caution: Risk of malfunction. Use only copper wires suitable for 105°C (221°F).



If a disconnect switch and/or fuses have not been supplied on control panel of electric heater, contact the supplier, and install the disconnect switch and/or fuses provided by the supplier.

Gauge of electric supply wires should be of appropriate section, function of line current, as per local electrical code.

Power Supply Wiring

See the name plate for information on voltage and current.

- Connect all wires to appropriate terminals as per the electrical diagram affixed inside the control panel door.
- Correct connection tightening should be verified before start- up, and after a short period of operation (typically, after 2 weeks).



WARNING: Risk of fire. Do not interchange the power terminal block designated L1, L2, and L3 with low voltage terminal block designated 1, 2, and 3.

Adhere to the following guidelines while making power supply connections:

- Use only coppers conductors.
- An external over current protection and disconnect circuit breaker should be installed on the supply, adjacent to the humidifier.
- A knock out (not supplied) should be installed at the bottom of the electrical compartment of the humidifier for strain relief of the supply cable.
- Ensure that the size of the wire conductors is appropriate for the current supplied.
- Ensure that each terminal connection is properly secured.
- The ground conductor should be equipped with a ring terminal, and should be connected directly to the electrical panel on the indicated location.

Display

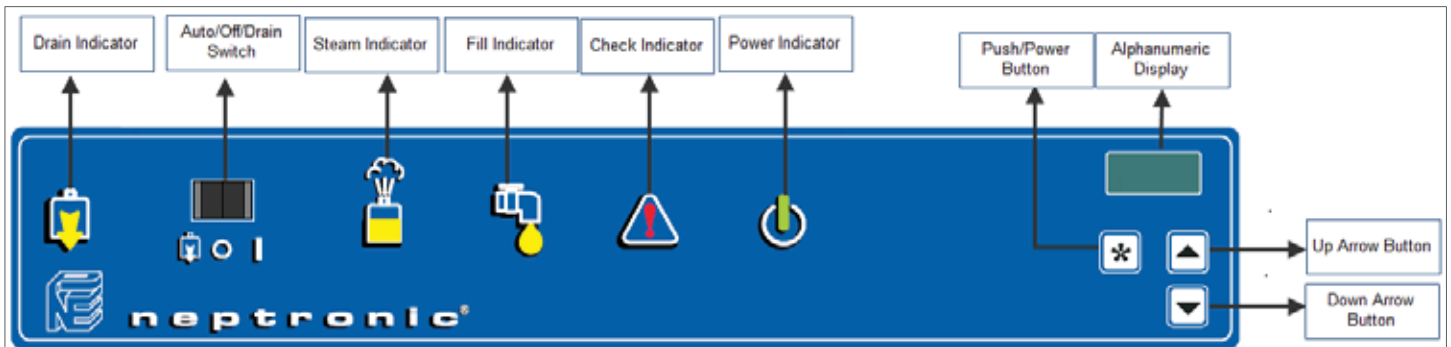












Illustration 4 - Display Features: Front Panel

Front Panel

The following are the display features of the Front Panel and their description:

Table 5 - Humidifier Front Panel Display Description

Options	Description
Alphanumeric Display 	The Alphanumeric display indicates all the operation parameters and error messages.
Push/Power Button 	The Push button is used to access program mode.
Up and Down Arrow Buttons  	▲ - Used to increase the control parameters of the humidifier. ▼ - Used to decrease the control parameters of the humidifier.
Power Indicator 	☀ - The humidifier is powered by electricity and the switch is at the AUTO position. O - The humidifier is disconnected from the power supply.
Check Indicator 	☀ - The CHECK indication is normally off. It will be activated as a warning during abnormal conditions of operation. ☀ - If the CHECK indication is on, it means that maintenance is required. The running hours have exceeded the Service hours. O - No abnormal conditions of operation.
Fill Indicator 	☀ - Indicates that the water supply (fill) valve is open. O - Indicates that the water supply (fill) valve is closed.
Steam Indicator 	☀ - Indicates the ON/OFF model, the STEAM indicator lights when the contactor is closed and steam is being generated.
Switch Auto/Off/Drain 	Auto - Position AUTO (I) Humidifier will generate steam based on demand from the humidistat. OFF - Position OFF (O) - Humidifier will shut off DRAIN - Position DRAIN Humidifier will stop operating and the evaporation chamber will drain the water out. This will be done typically at regular service.
Drain Indicator 	☀ - Indicates that the drain pump is on, whether as a result of an automatic drain cycle or because the front panel switch is manually set to DRAIN. O - Indicates that the drain pump is off.

Modes – Description

OFF Mode

When the rocker switch is in the OFF position, the display shows the model of the humidifier and the program version number as follows:

NEP 3.4
SK310M

Scroll Mode

When the rocker switch is in the auto position, the display scrolls the following information every 6 seconds:

Table 6 - Scroll Mode Display Description

Display and Description	Comment
<i>RH 25% DCT 68%</i> Display Space and Duct Relative Humidity readings	Only on modulating humidifiers (suffix M). If no High limit Duct sensor is installed, the second line is left blank.
<i>LB/HR 30</i> Quantity of steam produced by the humidifier	The actual output of the humidifier at that moment is 30 lb/hr.
<i>ALARM LEVEL</i> Low water level	Below this water level, the humidifier shuts off and the water supply valve is activated until sufficient level is reached.
<i>CONTROL LEVEL</i> Water level is controlled	The water supply valve is activated below this level.
<i>HIGH LEVEL</i> Water at maximum level	The water supply valve is automatically deactivated.




Diagnostic Mode


When the following conditions occur, the diagnostic messages override the scrolling information:

Table 7 - Diagnostic Mode Display Descriptions

Display	Description
<i>NO DEMAND</i>	Modulating humidifier: No analog signal to the humidifier.
	On/Off humidifier: <ul style="list-style-type: none"> Humidity level has exceeded the setpoint of the humidistat Humidity level has exceeded the setpoint on the high limit humidistat Airflow is not detected by the air pressure switch
<i>SAFETY OPEN</i>	<ul style="list-style-type: none"> Humidity level has exceeded the setpoint on the high limit humidistat airflow is not detected by the air pressure switch (modulating humidifier only)
<i>DRAIN CYCLE</i>	The humidifier is in the automatic drain mode.
<i>CONTACT DELAY</i>	15 second delay for the power contactor to be activated.
<i>OVERHEATED</i>	The temperature inside the container has exceeded the boiling temperature. The humidifier has shut off automatically.
<i>PROBE DEFECTED</i>	The water level sensor is not operational. The humidifier has shut off automatically.
<i>NO LEVEL</i>	Water has not reached the level probe.
<i>FORMING CYCLE</i>	The Anti Foam Energy Conservation (AFEC) has detected foam. The humidifier drains for a few minutes and returns to normal operation.
<i>DRN/PROB BLOCK</i>	The humidifier drains but the water level does not decrease, the humidifier has automatically shut off.
<i>VERIFY RH SENS</i>	Signal from either SHR10 or SHC80 used as space sensor is lower than 0.49 Vdc to terminal # 6 of humidifier. There might be a connection problem or a defective sensor.
<i>VERIFY DCT SENS</i>	Signal from SHC80 used as Hi limit duct sensor is lower than 0.49 Vdc to terminal # 4 of humidifier. There might be a connection problem or a defective sensor.

Programming Mode


To access the Programming Mode, push the  button. To move to the next program function, push the button twice. Use the  and  buttons to make any selection.

The changes made in the Program Mode are saved into a non-volatile memory. When the humidifier is in the menu driven Program Mode, the normal operation of the humidifier is halted. To resume normal operation, exit the menu program mode by pressing the  button until the alphanumeric display is clear.

1. SETPOINT OUT 30%

Default: Out 30%
Range: 00 to 100%
Out: Output set point to HRO20
Int: Internal

To enable the humidifier display, perform the following steps:

- Press the  and access the RUNNING function, Step 5, Running 0645 Hrs. The RUNNING message appears.
- Press and hold the TEST button located on the main PC board inside the electrical compartment for 10 seconds.
- Release the TEST button and then press the RESET button on the same main pc board. Setpoint is now displayed on the humidifier display.
- If the output is selected, the setpoint is sent from the humidifier to the humidistat HRO20.
- If SHR10 or SHC80 is connected with humidifier, select Internal, as this will allow you to set up RH setpoint directly from the humidifier.
- To switch between the output and internal setpoints, press and hold the TEST button located on the main pc board inside electrical compartment till the value changes.



2. SETPOINT VAV OFF

Default: OFF (Duct humidity control disable)
Range: OFF (Duct humidity control disable), High limit duct humidity setpoint value (65%)

This option appears only if you have selected Internal at Step 1, Setpoint out 30%. Set the VAV value setpoint.

If the setpoint VAV is set to OFF, humidity signal from the VAV duct will not be considered. If the setpoint VAV is set, the humidity output will be controlled by both the space demand and high limit duct humidity signal.

To add a setpoint VAV value, perform the following steps:

- Press and hold the TEST button located on main Pc board, inside the electrical compartment until OFF disappears.
- Select the VAV setpoint desired value by using the  and  buttons on the control panel.

3. PROPBAND 3%

Default: 3%
Range: 3% to 9%

This option appears only if you have selected Internal at Step 1, Setpoint out 30%. Select the desired value for proportional deadband.

Select the desired proportional band value by using the  and  buttons on the control panel.

4. DRAIN 8 HRS



Default: 4 hours
Range: 1 to 24 hours

Select the frequency for drain cycle. Generally, the harder the water is, higher the drain cycle frequency should be. Drain cycle setting does not affect the AFEC system.

5. RUNNING 0645 HRS

Number of running hours (information display only)

Indicates the number of hours the humidifier has been running since the last servicing.

After every service, reset the number of hours of operation to zero by pressing the ,  buttons simultaneously for 15 seconds. This will avoid the CHECK indicator from flashing.

6. SERVICE 1000 HRS

Default: 1000 hours

Range: 400 to 1500 hours

Set the number of hours of operation before the humidifier calls for servicing. Generally, harder the water is, lesser the number of hours of operation before servicing can be initiated.

7. LOCK ON 80% PWR

Default: 100 %

Range: 0% to 100%

Select the output span, the rate at which the humidifier delivers 80% of the maximum rated output at full demand.

Start-up Procedure

We recommend following this start-up procedure in order to avoid any anomaly resulting from wrong cleaning of the components.

- Ensure that the mechanical, electric, and plumbing connections are properly made and secured.
- Verify that there are no leaks in the water supply connections.
- Verify that there are no leaks in the drain connection.
- Verify operation of the three speeds or modulation of the fan.
- Ensure that the electrical connection tightening is correct.
- Ensure that the condition of internal fuses is good.
- Verify the resistance of each circuit against ground.
- Verify the correct operation of contactor(s).

Service

Heater – General Maintenance

Neptronic's electric heater, which is part of a complete Hot Yoga Studio system with ventilation, heating, and humidification do not require any specific maintenance. However, we recommend a yearly inspection, typically before winter season or after a long term shutdown.

Maintenance

Visual Inspection



WARNING: Risk of electric shock. Shut down the electric supply to the heater before commencing visual inspection.

- Verify that the heating element is in good condition.
- Ensure that the heating element is clean, free of dust or lint.
- Ensure that there is no dust accumulation on the Open Coil. Any dust or lint accumulation can lead to fire hazard.
- Verify any indication of overheating condition (discoloration) as well as any trace of oxidation (rust).

Electrical Inspection



WARNING: Risk of electric shock. Shut down the electric supply to the heater before commencing electrical inspection.

- Ensure that the electrical connection tightening is correct.
- Ensure that the condition of internal fuses is good.
- Verify the resistance of each circuit against ground.
- Verify the correct operation of contactor(s).

If necessary, electrical component should be replaced only with identical original component.

Replace Air Filters and UV Lamp



ATTENTION: Turn off power to the ballast before servicing the UV light



WARNING: UV light hazard. Harmful to bare skin and eyes. Can cause temporary or permanent loss of vision. Never look at the lamp while illuminated.



MERCURY NOTICE: This device contains mercury in the sealed UV lamp. Do not place your used lamp in the trash. Dispose of it appropriately. Broken lamp cleanup: Do not use a household vacuum. Sweep debris into a plastic bag and dispose appropriately. Contact your local waste management authority for instructions regarding recycling and the proper disposal of UV lamps.



CAUTION: UV light hazard. Harmful to bare skin, Can cause severe burns. Disconnect power and wait 15 minutes before servicing the lamp.

CAUTION: Breakable glass hazard. Be careful when removing/replacing the lamp. Wear protective gloves when handling bulb.

Humidifier – General Maintenance

The humidifier, which is part of a complete Hot Yoga Studio system with ventilation, heating, and humidification requires to be serviced after it reaches the specified service hours. A message is displayed when the humidifier service is due. The routine service includes a cleaning of the evaporation chamber. We recommend setting the service demand depending on the water quality, the frequency of automatic drain cycles, and the demand placed on the humidifier. The manual cleaning frequency can range from every 2 months to once a year.

Cleaning the Evaporation Chamber



WARNING: Risk of burning. The evaporation chamber and its contents can be extremely hot. Check the temperature before handling the humidifier.

Follow the sequence while cleaning the evaporation chamber.

Allow the Evaporation Chamber to Cool Down

1. Set the front panel switch AUTO/OFF/DRAIN to DRAIN. The humidifier will command a drain cycle.
2. Ensure that the evaporation chamber is completely empty. When it is empty, set the front panel switch AUTO/OFF/DRAIN to AUTO, the evaporation chamber will be filled with cool water; the FILL light will be illuminated.
3. As soon as the evaporation chamber is full of cool water, the FILL light will extinguish, Set the front panel switch AUTO/OFF/DRAIN to DRAIN again.
4. At the end of this drain cycle, check the temperature of the evaporation chamber. To do so, open the front door of the humidifier and touch the evaporation chamber with the back of your hand, if it is cool enough you can shut down the electrical supply. If not, repeat the cool down operation until it is cool enough.
5. Set the front panel switch AUTO/OFF/DRAIN to OFF.

Shut down the Electrical Supply



Caution: Risk of electric shock. Shut down the electric supply of the humidifier.

- Turn off the main power supply to the humidifier.

Disconnect Heating Element(s)

Remove the high voltage connector located at the top right hand side of the mechanical compartment.

- Model SK302 to 306 - Unscrew the connector.
- Model SK310 to SK36 - Squeeze the locking ears of the high voltage connector and pull it apart.

Disconnect the other Accessories

- Disconnect the connector from the water level sensor; this connector is attached to a cable that enters the mechanical compartment just below the high voltage connector. Squeeze the locking ear of the connector and pull it apart.
- Remove the connection to the high limit sensor (klixon), located on the top cover of the evaporation chamber.

Disconnect the Steam Hose and Water Pipe

- Remove the steam hose(s) at the top of the evaporation chamber.
- Remove the water drain/fill connection to the evaporation chamber. To do this, unscrew the nipple located on the lower right hand side of the evaporation chamber.

Remove the Evaporation Chamber

The evaporation chamber may now be freely removed from the humidifier cabinet.



The evaporation chamber still contains 1 inch of water, ensure that you do not spill this water on yourself.

Ensure that your footing is secure when lifting out the evaporation chamber. On a large humidifier (SK340 and SK360), it may weigh more than 35 lb (15 Kg). This operation may require another person to assist you.

Open the Evaporation Chamber

- Remove the cover from the evaporation chamber.
 - Model SK302 to 306: Unlatch the 3 latches located around the evaporation chamber. Note that these latches are very tight, we recommend you to use a screwdriver or pliers to do this.
 - Model SK310 to SK360: Turn the latches of the 4 or 8 latches located around the evaporation chamber.
- Remove the cover from the evaporation chamber.

Clean the Evaporation Chamber

- Pour out any remaining water and scale that is on the bottom of the container.
- To clean out the remaining scale from the container, use a stiff brush (synthetic filament only) and some vinegar or any weak acid for cleaning stainless steel.



If the amount of scale to remove is high, the service demand frequency is too low for the quality of supply water, you should then adjust this service demand frequency. Too much scale may impair the normal operation of the humidifier or damage it; in this case warranty will be void.

Clean the Other Components

- The components installed on the cover (heating element and water level sensor) and the cover itself should be cleaned as necessary, only if some scale has been accumulated on them.
- Proceed as per the cleaning of the container.
- Removing and cleaning of the water level sensor. A chamber protects the water level sensor. Cleaning of the sensor requires removing this chamber.
 - Unscrew the 2 screws holding the chamber, located on the cover.
 - Carefully remove the chamber, do not touch or damage the water level sensor.
 - Clean out the water level sensor by using a clean soft cloth.



Caution: The water level sensor is covered by a thin layer of Teflon, any scratch or damage to this layer of Teflon may cause failure of the humidifier.

- Clean the chamber by proceeding as per the main container.
- Re-attach the clean chamber to the cover and screw in the 2 screws on the top of the cover.

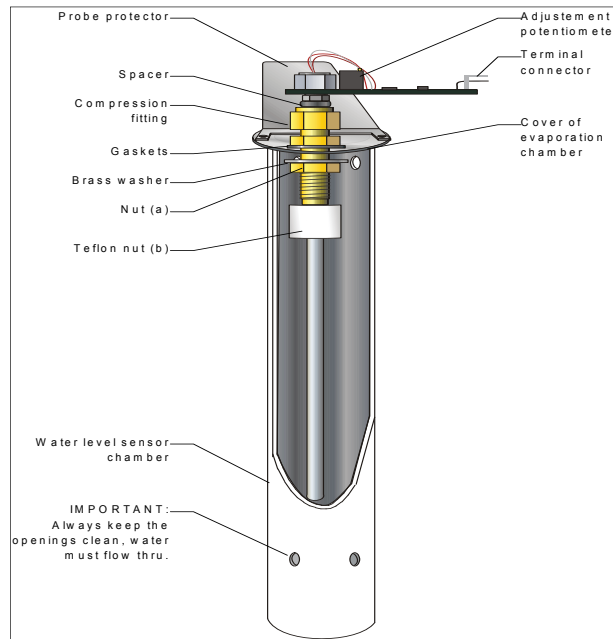


Illustration 5 - Cleaning the Evaporation Chamber


Reassemble the Evaporation Chamber

- Rinse out the container and the cover with water.
- Check the cover gasket, and make sure that the gasket is well placed before re-installing the cover on the container. The water level sensor should be in front of the drain/fill connection of the evaporation chamber.
- Tighten the latches around the cover (3, 4, or 6).
- Replace the evaporation chamber in the humidifier.
- Tighten the water drain/fill connection nipple.
- Replace the steam hose(s) on the outlet of the evaporation chamber.
- Reconnect the connector of the water level sensor, high temperature switch (klixon) and the high voltage connector of the heating element.



Caution: Ensure that the high voltage connector is locked properly. An improper connection may provoke electric arcs.

Start the Humidifier

- Turn on the main power supply to the humidifier.
- The POWER light of the front panel should be illuminated.
- Press the  button to enter the programming mode, to reset the Running hours (see Step 5 Running 0645 Hrs, Programming Mode).
- Set the front panel switch AUTO/OFF/DRAIN to AUTO. The humidifier will command to fill the evaporation chamber with water; the FILL light should be illuminated. It is possible that the CHECK light will illuminate because the evaporation chamber is empty. This signal will extinguish as soon as the normal condition is reached.
- If there is a humidity demand, the humidifier will produce steam again.



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