

VEVOR[®]

TOUGH TOOLS, HALF PRICE

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STEAM GENERATOR

MODEL:DO-45/DO-60/DO-70/DO-80/DO-90

DO-105/DO-120/DO-150/DO-180

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NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

 CustomerService@vevor.com

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

Preface

Welcome to use VEVOR (automatic) series steam generator, which operates internationally with advanced technology, sound design, stable performance, and beautiful appearance. It is a complete set of steam bath equipment with a unique room body. It can relax human muscles, eliminate fatigue, excrete toxins from the body, refresh people after the steam bath, and has specific health effects. Please read this manual carefully and keep it for safe and proper installation, operation, and maintenance.

Note for Steam Bath:

- The device should not be used temporarily by the elderly, pregnant women or patients with heart disease, high blood pressure, diabetes or for other adverse health reasons. It should only be used under the supervision of a physician.
- Smoking, exercising or drinking alcoholic beverages are strictly prohibited during the steam bath.
- If you feel sick, nauseous, or sleepy, please immediately withdraw from the steam room.
- Take care of your children at all times during the steam bath.
- Installing an exhaust fan outside the steam room is necessary to allow air circulation.

I Basic Parameters of Machine and Controller

1. Basic parameters of the model, external dimensions are shown in Table1.

Model	Power (kw)	Voltage(AC V)	Dimensions/mm
DO-45	4.5kw	200-240V(1PH/2PH)	450*185*380
		208V/3PH	
		380-415V/3PH	
DO-60	6kw	200-240V(1PH/2PH)	
		208V/3PH	
		380-415V/3PH	
DO-70	7kw	200-240V(1PH/2PH)	
		208V/3PH	
		380-415V/3PH	

DO-80	8kw	200-240V(1PH/2PH)	500*185*390
		208V/3PH	
		380-415V/3PH	
DO-90	9kw	200-240V(1PH/2PH)	
		208V/3PH	
		380-415V/3PH	
DO-105	10.5kw	200-240V(1PH/2PH)	
		208V/3PH	
		380-415V/3PH	
DO-120	12kw	200-240V(1PH/2PH)	
		208V/3PH	
		380-415V/3PH	
DO-150	15kw	200-240V(1PH/2PH)	
		208V/3PH	
		380-415V/3PH	
DO-180	18kw	200-240V(1PH/2PH)	
		208V/3PH	
		380-415V/3PH	

II Steam Generator and Piping Installation Operation Instruction

Installation and Operation of DO Series Steam Generator:

When installing steam generators, note that the steam generators manufactured by our company are carefully assembled and tested, and piping must be installed following national codes. A professional with a local or national plumber's license will perform the work. Turn off all power at the time of steam generator installation. And confirm that the purchased model can be suitable for your steam room. Please refer to Table 3.

Table 3 Technical Parameters

Model	Power (kw)	Room(M3)*	Current(A)	Specifications for power wire
DO-45	4.5kw	3-6	21	10AWG or 4.0mm ²
			13	11AWG or 2.5mm ²
			7	14AWG or 1.5mm ²
DO-60	6kw	5-7	28	9AWG or 6.0mm ²
			17	11AWG or 4.0mm ²
			9	13AWG or 2.5mm ²
DO-70	7kw	6-8	34	8AWG or 6.0mm ²
			20	10AWG or 4mm ²
			11	12AWG or 2.5mm ²
DO-80	8kw	7-9	37	7AWG or 10.0mm ²
			22	10AWG or 4.0mm ²
			12	12AWG or 2.5mm ²
DO-90	9kw	8-11	41	7AWG or 10.0mm ²
			25	9AWG or 6.0mm ²
			14	12AWG or 2.5mm ²
DO-105	10.5kw	9-13	48	7AWG or 10.0mm ²
			29	8AWG or 6.0mm ²
			16	11AWG or 4.0mm ²
DO-120	12kw	11-15	55	6AWG or 10.0mm ²
			33	8AWG or 6.0mm ²
			18	11AWG or 4.0mm ²
DO-150	15kw	13-18	68	5AWG or 16.0mm ²
			42	7AWG or 10.0mm ²
			23	10AWG or 4.0mm ²
DO-180	18kw	15-20	82	5AWG or 16.0mm ²
			50	6AWG or 10.0mm ²
			27	9AWG or 6.0mm ²

Installation of Steam Generator:

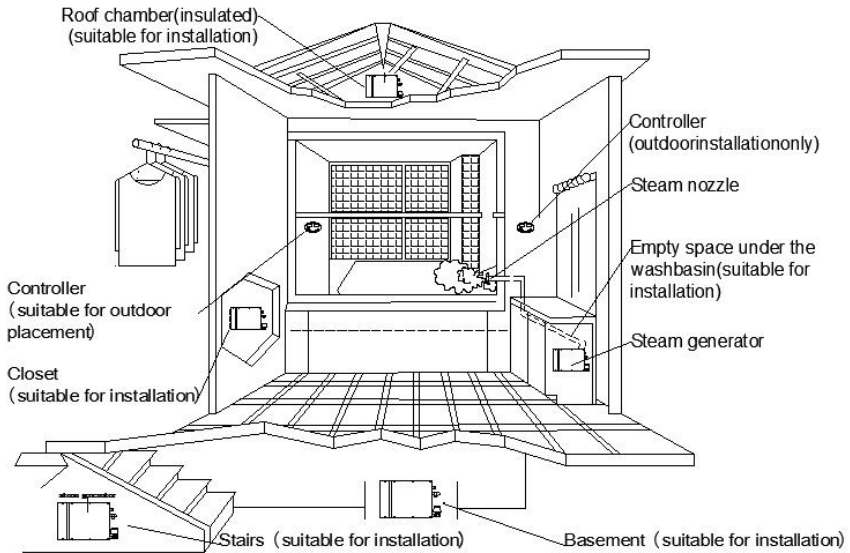


Fig.1

1. The steam generator can be installed on the wall or the ground, but it must be firm. The steam generator should be installed far from the bathtub or bathroom. Fix the machine on a vertical wall. First loosen the two screws on the machine cover and remove the outer cover. There are two holes on the machine cover's upper left and upper right for fixing the machine on the wall. Next, fix the rear cover and install the outer cover. In order to provide good maintenance services, the nameplate must be placed in a visible place, and the machine must also be installed in a place convenient for maintenance. Please refer to the installation recommendations (Figure 1).
2. It is strictly forbidden to install the machine in outdoor, humid, high temperature places or places where it may be frozen or corroded. At the same time, it is forbidden to place it near flammable and explosive places such as paint, thinner, gasoline, etc. It should be placed in a dry and ventilated place.
3. The steam generator can only be installed horizontally.

Pipe Installation:

1. The water supply and steam pipes shall be installed according to national standards. The installation shall be completed before the wall is sealed.
2. Water inlet pipe - The water inlet pipe is introduced by the existing 4 branch pipes, and connected to the valve of the water inlet and water supply pipe of the machine respectively with a 4 branch metal hose (please refer to Figure 2).
3. Steam outlet - the steam pipe shall be made of copper pipe with a diameter of no less than 4 cm (it is forbidden to use because the black metal or galvanized pipe will rust and discolor the wall of the steam room). The steam pipe's length shall be at least 3 meters at most. If the length of the steam pipe exceeds 3 meters, it shall be insulated (please refer to Figure 1)
4. Drainage pipe - to prevent damage to the house during drainage, a water pipe with a length of not less than 4 points shall be connected to guide drainage.
5. Steam nozzle - in the steam room, cover the decorative cover on the steam nozzle, apply sealant and screw on the nozzle. Avoid damaging the decorative cover and nozzle due to excessive force. Ensure that the nozzle's steam outlet is downward (pointing to the ground).

After the pipe installation, the electrician can carry out the machine wiring work.

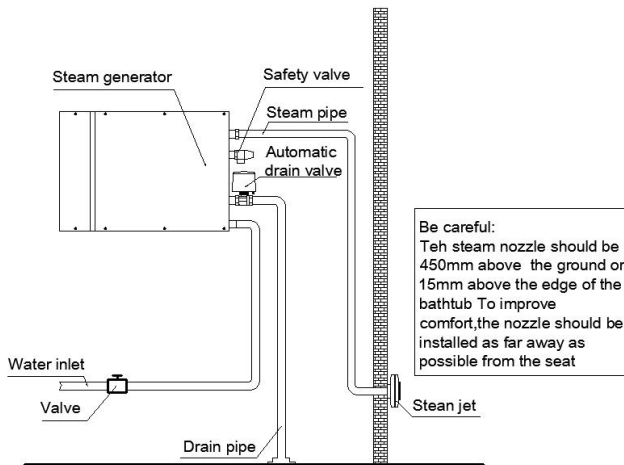


Fig.2

Warning:

- If the machine is installed in a place where it is difficult for users to operate, the water supply valve must be installed in a place where it is easy to operate in case of emergency.
- The withstand pressure of the solenoid valve is 2kg/m². If the water pressure is too high, in order to avoid damage to the solenoid valve, it is appropriate to turn down the inlet valve or add an inlet pressure reducing valve.
- The saddle or needle valve cannot be installed on the water inlet pipe. The water pipe shall be dredged and flushed before the final connection.
- It is forbidden to install blocking valves in steam pipes. It is strictly forbidden to block or bend the "U" channel. Otherwise, condensed water will be produced to block the flow of steam. The steam pipe shall be inclined to a certain extent when it is laid horizontally so that the condensate can flow back to the steam generator or to the steam nozzle.
- The steam generator cannot be installed outdoors to prevent icing inside. It must be installed in a place convenient for maintenance. The machine should be installed horizontally and the arrow direction should be upward, otherwise it cannot be started.
- The pipe installation must be made of copper pipe. It is forbidden to use plastic, acrylic, aluminum-plastic pipe or other similar materials as steam pipes because the allowable temperature of these materials cannot reach 150 °C or higher.
- The steam pipe inlet, all other inlets and gaps shall be sealed to prevent steam leakage from damaging the machine and other objects.
- Draining the water in the water tank into the steam room may cause scald accidents and damage the building materials used in the steam room.

III Steam Generator Circuit Installation Guide

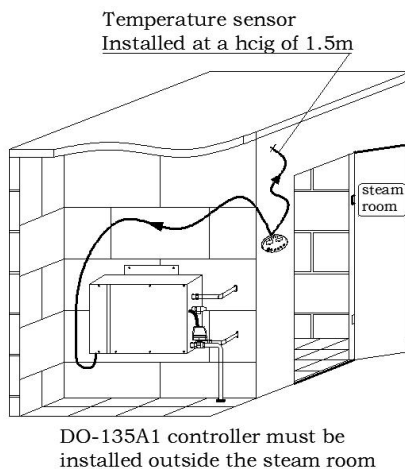
When installing and operating the steam generator, it should be noted that the machines manufactured by our company have been carefully assembled and tested. The line installation must be carried out following the national regulations and by professionals with local or national professional electrician qualification certificates. The power supply must be turned off before making any line connection.

Steam Generator Power Supply Installation:

1. To confirm the correct power supply voltage (220V or 380V, see the label), please refer to the label on the machine or Table 1 in the manual.
2. Requirements for installing circuit breakers in the line: the circuit breaker must be installed in strict accordance with Table 3. The machine must be grounded reliably. Install CFI (Ground Drain) (International Electrical Technical Code 210-8).
3. Select the power line matching the local requirements. If the socket needs to be installed, please install it near the steam generator. Note that the plug and socket shall exceed 250V and the required current load (please refer to Table 3). After the wall is sealed, the wiring between the machine and the controller can be carried out.
4. Loosen the cover screws and remove the cover. Open the blind hole for the incoming power line on the right side of the machine (see Figure 4). Connect the three-core cable (220V connection) (two power supplies and one ground wire) or five-core cable (380V connection) (four power supplies and one ground wire) of the machine, and strip off the 5cm long insulation layer. Connect the ground wire with the yellow-green multi-core wire in the machine, connect two power lines with the terminals marked with "L" and "N" (220V) or four power lines with the terminals marked with "N", "L1", "L2" and "L3" (380V).

After the controller is installed, the machine can be started.

The following figure shows the wiring diagram of DO series controller. (Figure 2)



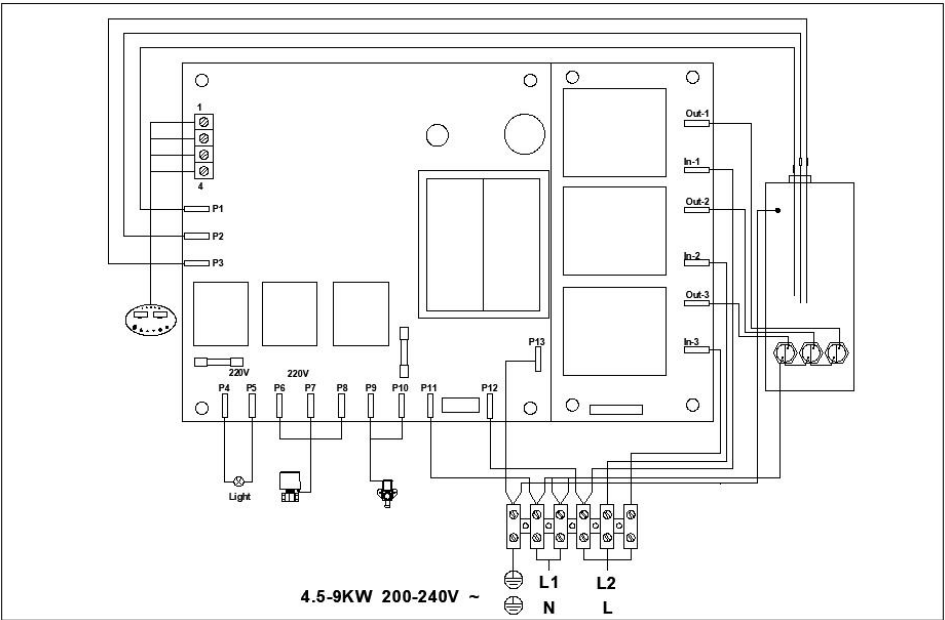
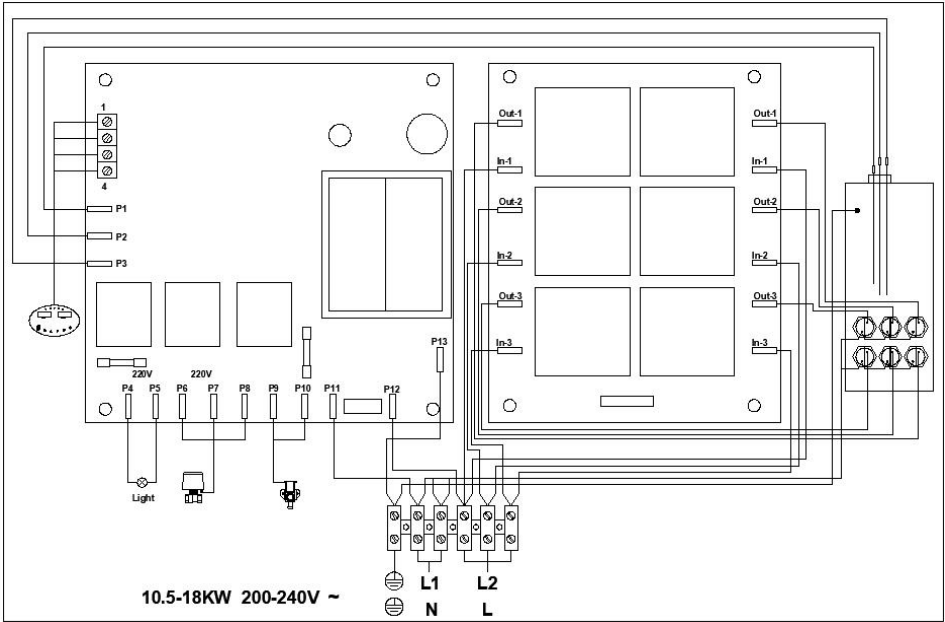


Fig.2 Steam Generator Wiring Diagram

Inspection Clause:

Before use, please check according to the following terms:

1. The machine is grounded correctly, and the diameter of the grounding wire should be greater than 4mm².
2. Whether the machine model is properly selected. If not, the matching steam room may not reach the preset temperature.
3. The voltage connected to the steam generator is well selected (i.e. 220V or 380V). If 220V steam generator is connected with 380V voltage, the electric heating tube and circuit board will be damaged. If 380V steam generator is connected with 220V voltage, the power of the machine will be reduced by 25%. The connection of the zero line of the 380V steam generator cannot be wrong, that is, the zero line cannot be connected to the phase line. Otherwise, the circuit board and electric heating tube will be damaged.
4. The steam generator must be installed vertically and horizontally.
5. Select the correct cable number and circuit breaker.

Warning:

- All power switches must be disconnected before installing, maintaining and maintaining the machine.
- Connecting any additional wires or providing power to the machine and controller is forbidden. Confirm that the ground wire is not connected to the energized wire. In installation, operation, maintenance, and repair, to use the machine for continuous and safe operation, please only use the components authorized to be replaced by the original manufacturer.

IV DO-135A1 Operating Instructions

1. Controller Shape (Fig. 1)




Fig. 1

- 1: On/Off
- 2: Lighting On/Off
- 3: Digital Decrease
- 4: Digital Increase
- 5: Temperature / Time setting key
- 6: Celsius / Fahrenheit Display Switch
- 7: Time Display
- 8: Automatic Drain Indication
- 9: Heating Indication
- 10: Water Shortage Indication
- 11: Working Indication
- 12: Power Indication
- 13: Temperature Display

2. Operation Instruction


- After the installation of the steam generator and controller is completed and checked for accuracy, the power is turned on and energized.
- On/Off: On/Off: When the steam generator is in standby mode, touch the key to

start the steam generator. The controller will then display the working time of the steam generator and the temperature in the steam room, and the icon bar will show the steam generator's operational state. If you touch this key again during the countdown period, the controller will turn off the display, and the steam generator will stop working.

- Lighting on / off: touch the  key to turn on the lighting, touch this key again to turn off the lighting. Lighting voltage is 220V, the maximum power is 100W.


- Temperature and time setting: Touch the key to set the temperature and time during the machine opening time, the first time you touch this key to set the time,


the time display flashes. Touch the  key or  key to modify the value, the

adjustment range is 10 minutes - 24 hours. Touch the  key again to enter the

temperature setting, while the temperature display flashes. Touch the  key or

the  key to modify the value, the temperature adjustment range is 25-55 degrees

Celsius. Touch the  key or controller again after 15 seconds of no operation, the system automatically exits the setting and returns to the countdown display and the normal temperature display of the steam room. The modified value has only a memory function, and the last value will be read automatically after the next power is on.

- Switching between Celsius and Fahrenheit display: With the touch of  key, the customer can switch the display between Celsius and Fahrenheit.

Controller Installation Guidance

1. Hole diameter of 35MM in the wall where the controller is installed (Fig.2).

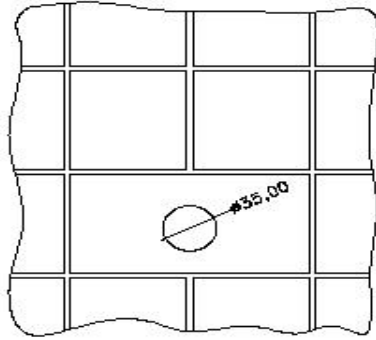


Fig.2

2. Pre-buried steam generator control line wire and temperature sensor connection line (Fig.3).

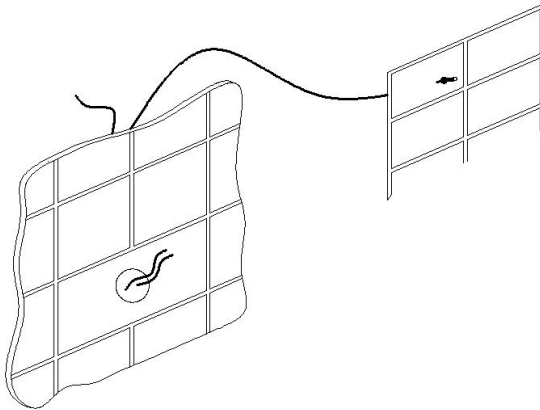


Fig.3

3. After completing the interior sauna decoration, insert the steam generator control line and the temperature sensor connection line into the plug according to the color instructions and tighten the set screws. Then turn on the power and test whether the buttons are usually working. After the detection is correct, tear off the double-sided adhesive protection film on the back of the controller. Finally, paste the controller on the wall. (Fig.4)

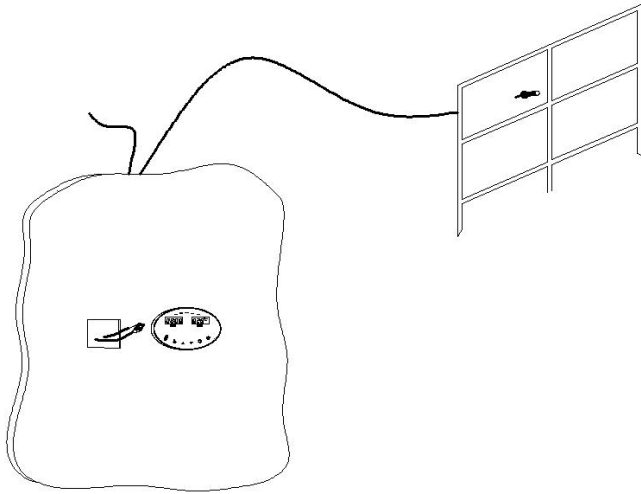


Fig.4

Warning:

- This machine must be grounded.
- Installing the machine and controller in places susceptible to moisture is strictly forbidden. The installation site shall be dry and ventilated. The company's after-sales service guarantee liability for damage to the machine due to dampness shall not take effect.

V Maintenance and Repair Instructions for Steam Generator

Maintenance of Steam Generator:

1. To prevent the machine from being damaged by steam or water leakage, the steam generator, steam nozzle, parts and pipes shall be inspected regularly.
2. This machine is equipped with a drain valve to clean and discharge the sediment in the steam generator case. This work is carried out monthly or more frequently according to the local water quality and the use of steam generators.

Cleaning Process: When the machine is cooled, open the drain valve, let the water flow for about 10 minutes, and then close the water valve (the machine does not

heat the water).

When the machine is running, check the signs of excessive heating. Also, check the security of all electronic interfaces.

Maintenance and Operation Instructions:

Replace the electric heating tube:

- Turn off the power supply.
- Drain the water in the water tank.
- Open the front and outer cover of the electric heating tube channel.
- Mark the wired interface.
- Remove the wire.
- Take out the electric heating tube.

It is necessary to replace a new electric heating pipe, clean the scale in the water tank, put the electric heating pipe into the pipe mouth, and tighten the electric heating pipe. Then, reconnect the wire, check whether the electric heating pipe orifice leaks and cover the front and outer cover of the electric heating pipe channel.

1.Replace the circuit board: turn off the power supply, open the front cover, pay attention to the water level probe corresponding to the blue and white water level probes, and remove the probe and the three wires on the circuit board. Note and mark all wiring interfaces, and remove the circuit board. Installation is the reverse of the above steps.

2.Replace the solenoid valve: turn off the power and water source, and open the front cover. Remove two blue wires from the solenoid valve. Remove the hose on the solenoid valve, loosen two screws, and remove the valve. Install the solenoid valve and hose in reverse order.

3.Replace the water level probe: turn off the power supply, open the front cover, pay attention to the water level probe of the blue and white wires, unplug the three wires on the probe, install a new water level probe, and tighten the bottom of the plastic nut to the original height of the nozzle. Just plug in three wires.

Warning:

- The power must be turned off before operation for all maintenance and repair work. Live operation is not allowed.

- After maintenance, conduct a test according to regular operation..

VI Common Faults and Troubleshooting Instructions

There are no parts in the machine that the user can operate. Qualified professionals must carry out the maintenance. If you need more services or the help of the manufacturer's authorized service personnel, please get in touch with the seller.

Symptoms	Reasons	Method
Start the controller, the controller has display but no steam is generated.	No Water Supply; Temperature Sensor Fault; Circuit Board Fault; Electric Heating Tube Failure	<ol style="list-style-type: none"> 1. Start the steam generator and wait for at least 5 minutes. 2. Check whether the water supply valve is open and whether there is water in the water pipe. 3. Check whether there are impurities in front of the solenoid valve. 4. Whether the heating indicator on the controller is on. 5. Replace the circuit board. 6. Replace the electric heating pipe. <p>If none of the above methods can be solved, please turn off the power supply and contact the seller.</p>
Close the controller and continue to generate steam.	Control Circuit Fault; Equipment Problems	<ol style="list-style-type: none"> 1. Check whether there is moisture or water on the circuit board. 2. Replace the circuit board. <p>Turn off the power and call the seller.</p>
Water from steam nozzle.	Solenoid Valve Fault; Circuit Board Fault;	<ol style="list-style-type: none"> 1. Check whether there is moisture or water on the circuit board. 2. Replace the circuit board. 3. Replace the solenoid valve.

	Water Level Probe Is Broken	<p>4. Replace the water level probe.</p> <p>5. If none of the above methods can be solved, please turn off the power supply and contact the seller.</p>
The controller has no response and no display.	Controller Failure, Circuit Board Fault; Control Connection Line Fault	<p>1. Check whether the red indicator on the circuit board is on.</p> <p>2. Replace the circuit board.</p> <p>3. Replace the controller.</p> <p>4. Replace the control connecting wire.</p> <p>If none of the above methods can be solved, please turn off the power supply and contact the seller.</p>
The controller displays "00".	Temperature Sensor Fault	<p>1. Check the temperature sensor connecting wire.</p> <p>2. Replace the temperature sensor.</p>
The lamp does not work.	Safety Tube	<p>The fuse is broken.</p> <p>(Some models do not have this function.)</p>

Note:

- Refer to the four indicator lights on the circuit board for troubleshooting. Red indicator light - power supply, green indicator light - start steam generator, yellow indicator light - heating, orange indicator light - water inlet.
- The power supply must be turned off when replacing components.
- If the fault cannot be eliminated according to the above methods or the machine cannot work normally for other reasons, please notify the seller or manufacturer to contact for maintenance.

VII Guarantee Conditions for After-sales Service

The company gives a conditional guarantee to the Vevor steam generator purchaser. Free guarantee shall be provided for the damage caused by the

material and product quality problems of the electrical components of the machine within one year or 18 months after delivery (whichever occurs first). All accessories, accessory parts and parts are not guaranteed under any circumstances.

- The electric heating pipe warranty period is 90 days from the installation date or within half a year after delivery (whichever occurs first).
- The company has the right to choose whether to repair or replace parts. As long as it is within the scope of the company's commitment, the parts listed in the guarantee will be replaced with old ones. It must be approved by the company before returning to the company. (The freight shall be paid by itself) The replacement parts shall be paid in advance and the freight shall be prepaid.
- The terms and items mentioned in this manual are not included in the guarantee.
- This warranty does not cover damage caused by incorrect use, negligence, accidental rupture, improper power supply connection during use, failure to follow the instructions, and modification or maintenance by technical personnel not recognized by the company.
- After the warranty period expires, the company will continue to provide paid services for users. The material cost and personnel travel expenses shall be paid if the parts need to be repaired or replaced.
- The guarantee is only for the company's products.
- The company will not be responsible for any damage, loss, or damage of other things and any loss caused by human factors.
- For specific after-sales service matters, please get in touch with the seller.

Thank you!

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