

Infitek

WDST-S5/WDST-S10
WATER DISTILLER
USER MANUAL

Version 2025.07.01

INFITEK CO., LTD.

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Chapter 1: Introduction

Currently, to extract high quality distilled water by heat and cold exchange is a reliable method. The stainless steel distiller produced by our factory is a new upgrade product. The whole machine is made of high quality stainless steel materials. The separate design structure of the controller and the body reflects features such as easy operation, heat insulation, and safe application. Meanwhile, the built-in distillation shunt structure can ensure the stable water output.

Chapter 2: Structure

This machine is mainly composed of distiller and electrical device.

1. Distiller: this part is made of high-quality stainless steel materials. The steam in the distiller is mainly generated by electric heating and then goes through the water cooling device in the condenser which carries out the shunt cold and heat exchange to produce distilled water.

2. Electrical control part: the electrical control device has the function of water cut-off protection, which can ensure that the water level in the distiller is at the working water level. When the water level is too low (or in short), the electrical control device will cut off the power immediately and the heater stops working.

Table1

Specification	5 litre/hour	10 litre/hour
Water yield per hour	5L	10L
Power	3Kw	2.4Kw×3
Power Supply	220V	380V

Chapter 3: Installation Instruction

1. This device should be located in a spacious and independent indoor room with fluent air circulation. It should be installed on a fixed waterproof workbench .

2. Please connect one end of the water pipe configured by the device to the water pipe of the external water source, and **install a water valve at the connection to the external water source pipe** to control the water volume regulation. Insert the other end of the water pipe directly into the quick plug of the device's water inlet.(Fig. 1)

(Note: **Plug the plastic water pipe into the bottom of the quick plug, otherwise it will cause water leakage. When you need to pull out the inlet pipe, push the quick plug slider in to pull it out.**)

3. It shall be installed by a professional electrician. A

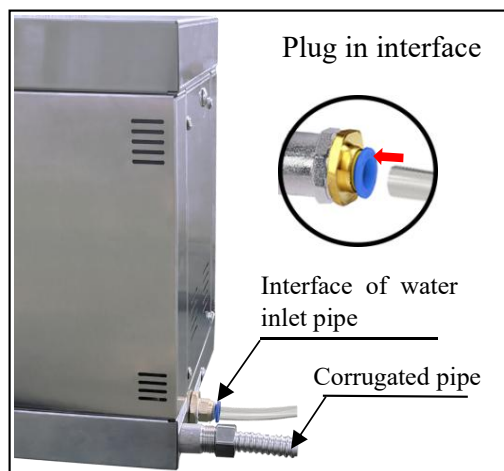
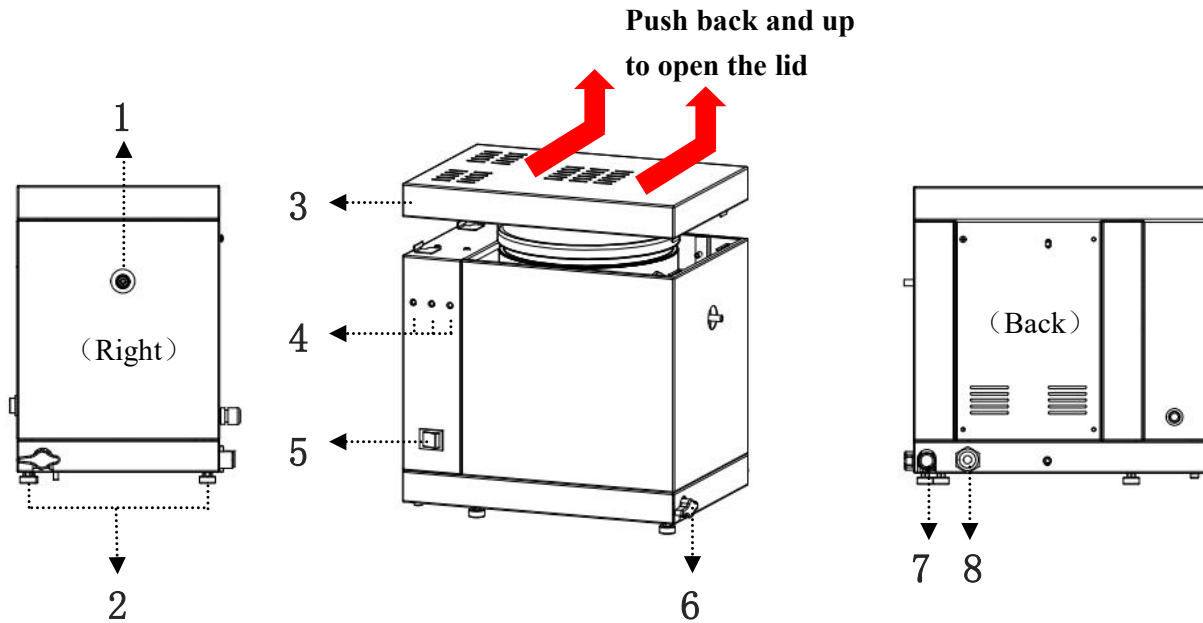


Fig. 1

leakage protector shall be added to the power supply at the front end of the device and the power shall be greater than the total power of the device (see table 1).

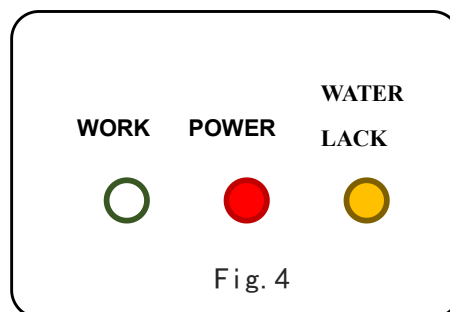
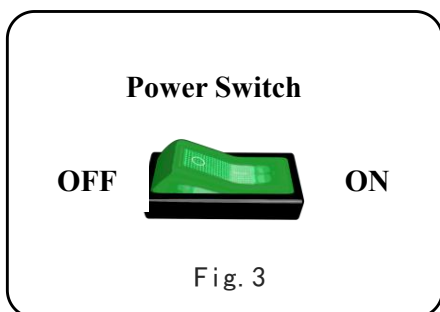
Chapter 4: Structure Chart



1. Distilled water outlet	2. Foot pads	3. Upper cover	4. Indicator light (work, power, water lack)
5. Power switch	6. Drain valve	7. Cooling water outlet	8. Cooling water inlet

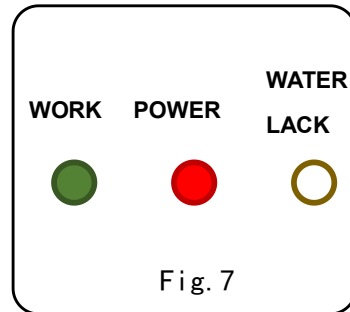
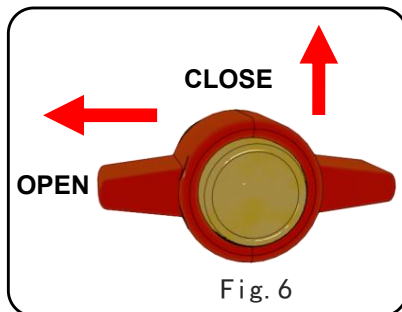
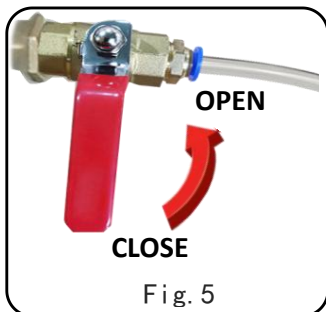
Chapter 5: Operation Guide

1. Power on: Turn on the power in accordance with the manual. Put the power into the device, and turn on the power switch (Fig. 3). When the power light is on, it indicates that the power has been input to the device normally, When the water shortage indicator is on, indicating that the internal device is out of water (Fig. 4).



2. Add water: Open the water valve of the external water source (see Fig.5) to add water to the distiller. **At the**

same time, close the drain valve at the bottom of the machine(see Fig.6).When the water level in the distiller rises to the standard level, the water shortage indicator in the box of the electrical control device goes out and the heating indicator lights is on (see Fig.7), indicating that the inside water level is normal, and the electric heater starts to work.



3. Heating: With the operation of the electric heater, the water in the distiller starts to heat up. When the distilled water flows out of the outlet (see Fig.8). When the cooling water outlet temperature is at about 60°C, the external water inlet valve should be adjusted appropriately (see Fig.9) (Excessive cooling water effluent will cause the distilled water to decrease or not, and too small cooling water effluent will cause steam in the distiller to reduce the amount of distilled water). Because the tap water pressures of the users are different, please adjust the water inlet valve input to the device to control the water pressure flow into the still, which is an important method to determine the amount of distilled water.



Fig.9

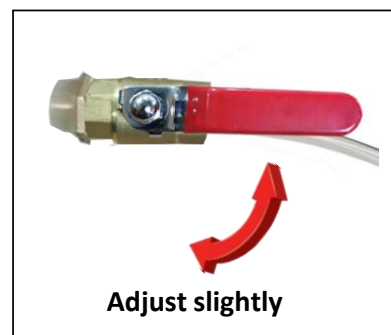


Fig.10

4. Control and protection: This device has an automatic protection device for water shortage. When the water level in the still is lower than the minimum water level, the water shortage lamp lights up (the heating lamp is off) (see Fig.4), and the electric heater stops heating. When the water level is compensated, the water in the distiller is at the standard water level, the heating lamp is on (the water shortage indicator is off) (see Fig.7), the electric heater is reheated to raise the temperature, and continues to produce distilled water (see Fig.8).
5. There is a built-in self-draining storage water in the distiller. After use, you need to open the drain valve at the bottom of the machine and wait for the water in the cooling water discharge pipe to drain

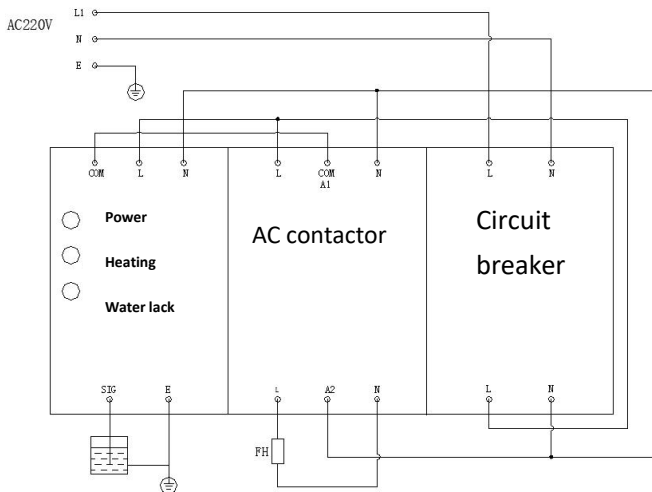
completely and then put away the drain pipe.

6. After use, please turn off the power switch and close the valve of the external water source .

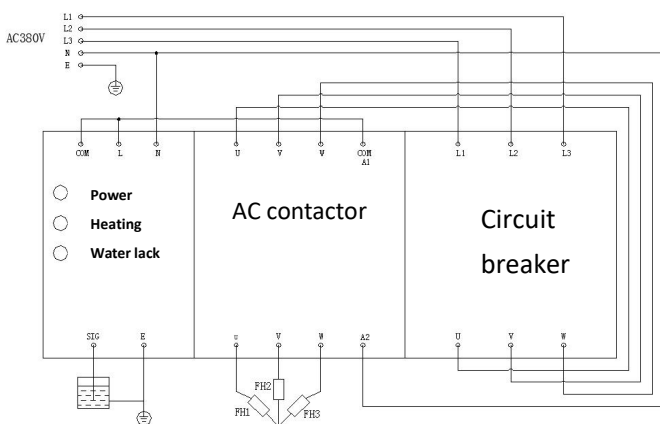
Chapter 6: Maintenance

1. The water source input to the device should be softened, and a water purification device should be installed at the front of the water source input to the distiller to avoid scale in the distillation, thus ensuring the quality of the distilled water.
2. Water stains on the outside of the device should be wiped frequently to keep the shell dry, otherwise the stainless steel material will easily be corroded and rusted.
3. Please do not disassemble the electrical control device at will to prevent leakage and damage to electrical components. If you need repair, we can send professional electrician for repairs or please contact the manufacturer.

Chapter 7: Electrical Schematic Diagram



WDST-S5			
No	Symbol	Name	Type
1	FH	Electric Heater	AC 220V 3Kw
2		AC Contactor	NCH8-20/40
3		Circuit Breaker	NXB-63C32 2P
4		Power Line	Φ2.5mm ² ×3
5		Connecting Line	Φ2.5mm ² ×2



WDST-S10			
No	Symbol	Name	Type
1	FH1-FH3	Electric Heater	AC 220V 2.4Kw×3
2		AC Contactor	NCH8-25/40
3		Circuit Breaker	NXB-63C25 3P
4		Power Line	Φ2.5mm ² ×3
5		Connecting Line	Φ2.5mm ² ×3

Chapter 8: Analysis of Common Failures

Table 2

Conditions	Reasons	Solution
Distilled water quality is poor	<ol style="list-style-type: none"> 1. The pipe wall in the cavity of the new instrument has impurities remaining during processing. 2. The water input to the device is not good. 	<ol style="list-style-type: none"> 1. Extend the trial time to allow the impurities to be flushed out of the device. 2. Change the quality of the input water.
Body leakage	The power supply lacks the grounding wire.	Add a reliable grounding wire.
The machine doesn't heat and the body has leakage.	The heater has broken down.	Replace the heater.
The indicator light does not turn on after power-on	<ol style="list-style-type: none"> 1. Whether the input power is normal. 2. Check whether the wire terminal in the device is loose. 	<ol style="list-style-type: none"> 1. Input the power source in accordance with that of the device. 2. Tighten the wire connector.
When using the device, more steam comes out of the device.	The water supply to the device is interrupted or the cooling water pressure is too low.	Increase the water pressure to the device.
The water level is lower than the warning line , while the working light is on.	<ol style="list-style-type: none"> 1. The water level probe contacts the shell. 2. The wire links to the water level probe is broken. 	<ol style="list-style-type: none"> 1. Adjust the vertical position of the water level probe and remove the foreign matter on the probe. 2. Enclose the broken wire to isolate it from the shell.
After the power is turned on, the power light is on however the work light and water shortage lights are off.	The relay and liquid level circuit board are damaged or the terminals are loose.	Please replace the relay or level circuit board and tighten the loose terminal.

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