



# Water Distillation Unit FM-WDU-A101

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## 1. Safety Measures

- Water sources such as natural water or well water should be chemically treated, with water quality in line with GB54 standard requirement before use.
- The material of the water pipe connecting the distilled water outlet, and the overflow outlet shall be of high-temperature resistant material. Avoid pipe collapse caused by flowing through hot water for a long time.
- Do not cut off water during use, and ensure the water pressure is stable, otherwise, it is easy to overflow or dry burning for lack of water.
- Ground wire must be installed when using.
- Distilled water in the work of the surface temperature is high do not contact to prevent scald.

## 2. Introduction

**Water Distillation Unit FM-WDU-A101** is a spacious-free water distiller designed with a capacity of 10 L to purify water using electric heating. Our distiller is improved with precision, including an evaporator, condenser, and heating pipes to make germ-free distilled water. Enhanced with automatic water supply function, offer seamless operation. Utilized with rising floater, keeps operations seamless by replenishing water during low conditions.

## 3. Features

- ✓ Anti-corrosion and age-resistant properties guarantee ease of operation
- ✓ Equipped with Coiled stainless steel tube condenser for excellent heat exchange
- ✓ Specialized water level design triggers an alarm system in low water conditions for enhanced safety
- ✓ Visible indicator light provides instant feedback on the equipment's operational status
- ✓ Ensures convenience in use and consistently reliable functionality

## 4. Specifications

Model No.	FM-WDU-A101
Capacity	10 L
Voltage	380
Output power (L/H)	≥10 (L/H)
Heating power (Kw)	7.5 (Kw)
Dimension (L×W×H)	390 × 370 × 860 mm
Net weight (kg)	8 kg
Gross weight (kg)	11 kg

## 5. Applications

Water Distillation Unit is employed for diverse applications, serving purposes in medical facilities, sanitary environments, pharmaceutical settings, electroplating processes, and laboratory applications.

## 6. Instrument Introduction

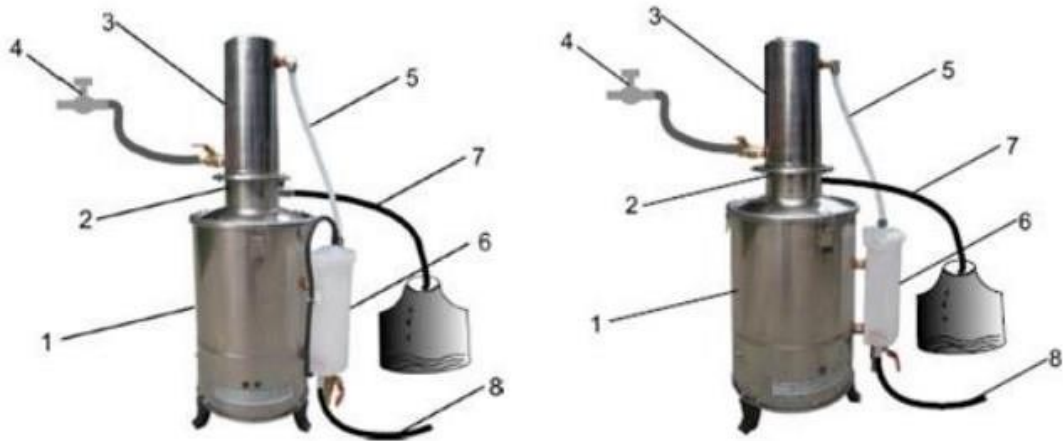


Fig.1

1. Evaporation cask
2. Evaporation cask cover
3. Condenser
4. Water source valve and water inlet pipe
5. Water return pipe
6. Water supplement tank
7. Distilled water outlet pipe
8. Water drainpipe

### 7. Installation

- 1) The power supply voltage must be normal and within the specified range, it shall not exceed  $\pm 10\%$ .
- 2) There must be a domestic water source with stable flow, and the water pressure shall be no lower than 0.1MPa. Prevent the water consumption around from affecting the water supply, which may cause the reduction or interruption of distilled water production.
- 3) The distilled water outlet pipe shall not be too long, and it shall be able to be inserted into the port. The distilled water outlet pipe shall not be too long, it shall be able to be inserted into the port.

### 8. Operations

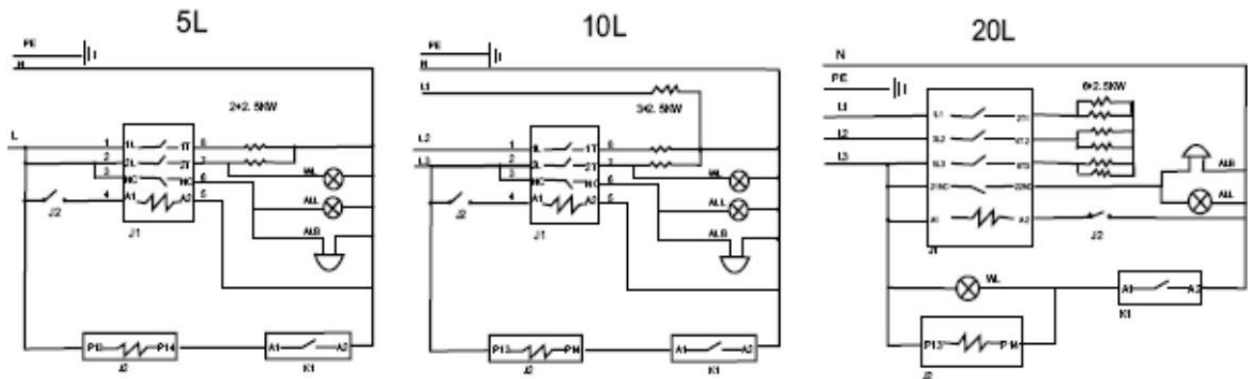
- 1) Connect the water source and water pipes diagram.
- 2) Make the equipment cable connected to your distribution board; the voltage shall be consistent; the equipment shall be grounded completely; and a leakage protector must be used for the equipment switch.
- 3) The water drain valve shall be closed before normal use of the equipment
- 4) Open the cooling water valve to feed water to the equipment (low water pressure shall be maintained); regulate the cooling water pressure after the water pipe at the overflow outlet starts to have an overflow phenomenon; the overflow water level shall be within the liquid level range specified by the red warning label and it shall be kept stable. Then, connect the power supply device to work. During the water production process heat the instrument and observe whether the overflow water level is within the specified range; if not, regulate the cooling water pressure to stabilize the overflow water level; 30 minutes' pre-distillation shall be performed before the distilled water is formally taken each time.
- 5) After the water in the pot boils, the inlet water control valve or water source valve may be adjusted to regulate the cooling water inflow; in the meantime, kindly observe the distilled water yield.
- 6) When there is an acute lack of water in the evaporation cask (the ordinary type does not have this function), the device can automatically cut off the heating power supply to stop heating; meanwhile, a sound and light alarm will be sent.

### 9. Maintenance

- 1) The inside shall be washed before the product is used each time, to prevent the produced scale deposit from affecting the water quality and use effect
- 2) wall of condenser pipe, outer wall of condenser, inner wall of water return pipe, etc. The method of eliminating it: use a hairbrush to brush it, and then use weak acid or weak base solution for cleaning based on the actual conditions.
- 3) The electrical heated tube must be immersed in water for use
- 4) The electric control device shall be inspected regularly
- 5) When cleaning and using the product, kindly do not make water directly sprayed into the controller, to guarantee safety If the user needs to replace the electrical heated tube due to repair, the washer at the joint position must be in good condition, to guarantee that there is no water leakage 7. The newly purchased water distiller shall be cleaned, and more than two hours' power on for distillation shall be performed for self-cleaning of the inside. Then, it may be formally put into use, to guarantee that the water quality meets the requirements.



## 10. Circuit Diagram



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