

BIOBASE

Water Distiller
WD - 5/10/20/A5/A10/A20
User Manual

BIOBASE GROUP

Version 2022.04

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I. Brief Introduction

It is the ideal equipment for producing distilled water in laboratories and medical units. The distilled water is in accordance with the quality standard, which is stipulated in Chinese Pharmacopoeia of the People's Republic of China.

II. Scope of application

It applies in producing distilled water in laboratories of fields of medical treatment, health care, scientific research, chemical industry and colleges and universities.

III. Structure character

1. This product is made of imported high quality stainless steel and adopted the technology of stamping .
2. It has functions of water-deficient and power-off alarm and automatic make up water and heat again.
3. With power, heating instructions and water display.
4. Adopts the working principle of the electrode to prevent electrode fouling due to long working hours, lack of water power can not function properly.

IV. Major technical parameter

Model	Voltage (V)	Out put Quantity (L/h)	Power (KW)
WD-5	AC 220V, 50Hz	≥5	5
WD-10	AC220V,50Hz	≥10	7.5
WD-20	380V,50Hz	≥20	15
WD-A5	AC 110/220V, 50/60Hz	≥5	5
WD-A10	380V,50Hz	≥10	7.5
WD-A20	380V,50Hz	≥20	15

V. Installation & Operation



- | | | |
|---|----------------------|----------------------------|
| 1 - Condenser | 2 - Water inlet port | 3 - Distilled water outlet |
| 4 - Water level mirror | 5 - Evaporating port | 6 - Power supply indicator |
| 7 - Water inlet pipe (Silicone tube 8*12mm) | | 8- Water level mirror |
| 9 - Power cable | 10- Overflow output | 11-Drain output |
| 12- Temperature Controller (WD -A series) | | |

1. Put the distilled water instrument in a convenient place for water supply and discharge, check the supply voltage if it is accord with the rated voltage of this product and install the earth leakage circuit-breaker and ground wire in the power circuit. Connect pipe for part 2 -3-10-11.

Water pipe dimension:

- 2-Water Inlet = 10mm (Length as needed)
- 3-Distilled water outlet = 12mm (Length better at 50cm)
- 10-Overflow output = 16mm (Length better at 50cm)
- 11-Drain output = 10mm(Length as needed)

2.Close the 11-drain output valve firstly, fill 5-evaporating pot with water(do not be over the position of liquid level mirror)

3. Power on, after about 10 minutes, water in 5-evaporating pot heating up becoming water steam

upward through 1-condenser cooler becoming water drop, exhausted from 3-distilled water outlet.

4. Open 2-inlet valve tap and **attention:** (Tap water pressure is high, Please don't open the tap too much, just open a little that It can flow through the water). , through 4-water level mirror we can see the water level height inside the distiller, adjust the 2-inlet valve tap until there is stable distilled water out.

5. After finishing running, turn off the power supply, turn off the water supply and open 11-outlet valve, exhausting the water in the 5-evaporating pot and clean inside.

VI. Points for attention

1. If the natural water or well water used for producing distilled water, it must be adopted the chemical treatment and the water quality must be accord with the GB5749 standard.
2. The rubber tubing for distilled water should not be so long. Don't insert it into the water for avoiding steam block and the water emit from hopper.
3. Must keep the steady pressure of running water otherwise the water is easy to overflow.
4. Don't cut the water supply, otherwise the heater and sealing ring will be burned. WD-A series temperature controller will stop heating when detect the heater temperature over limit.

VII. Maintenance

1. Wash the evaporation boiler clean the boiler without any water and change the fresh water before use every time for ensuring the water quality.
2. Condensation cooler is made of metal material , so when you use it first time, you must make pre-steam for 10-16 hours. After the quality of distilled water is passed, you could use it. After this, you should make pre-steam for 30 minutes before use every time, the distilled water produced in this way could be used.
3. Empty the water after every use clean and wash it for cleaning.
4. The temperature of surface of distilled water instrument is much high when it works, so don't touch for avoiding scald.

VIII. Fault and repair

Fault	Cause	Maintenance
The distilled water is not produced; When Boiling, the hopper emit water.	①Because for many years the accumulated incrustant block the pipe. ②The connecting rubber gasket of return pipe is out of shape and blocks the return pipe.	①Clean the incurstant. ②Change the connecting rubber gasket.
The distilled water could be produced, but when the cooling water is injected, the distilled water is stop.	The cooling water quantity is over the standard.	Open the water inlet control valve and regulate it slowly
Alarm indication light is bright and alarming apparatus make sounds	The evaporation boiler is lack of water	Fill water in the tank till the alarming apparatus stop noising .

Packing List

Item	QTY
Water distiller	1
Manual	1
Certificate card	1

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