OPERATING MANUAL



WATER DISTILLER

BER-6501 BER-6502 BER-6503

CE ISO9001 CERTIFIED

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1. Safety warning before use

 Must disable item: The following may cause serious injury or death

1. Do not store volatile, flammable and explosive items in the equipment, otherwise it may cause explosion or fire.
2. Do not place the equipment in rain, wet or splash water, otherwise it may lead to leakage, short circuit or electric shock and other accidents.
3. Non-professional technicians shall not disassemble, repair or modify the equipment, otherwise it may cause fire or electric shock due to improper operation.

 Must obey item: The following items may cause injury and damage to equipment and related property losses

4. The equipment should be installed on a solid ground. If the ground is not solid enough or the installation site is not suitable, the equipment may tip over and cause injuries.
5. Please use the special power supply indicated on the nameplate of the equipment. The power outlet must be connected to the ground. The equipment must be reliably grounded to prevent accidental leakage of electricity resulting in electric shock or fire.
6. Before any repair or maintenance of the equipment, be sure to disconnect the power supply to prevent electric shock or injury.
7. Wear gloves when repairing or maintaining equipment to prevent injury caused by edges or sharp corners.
8. If there is any abnormality in the operation of the equipment, pull out the power plug immediately and stop the operation of the equipment. Operating under abnormal conditions may cause electric shock or fire.

2. Main Features of the product

The complete machine, which is made of high-quality stainless steel sheet, has the following features: beautiful appearance, simple to operate, power cut when the water is insufficient, sound and light alarm (ordinary type doesn't have this function), easy to clean, and water saving, etc. The product is mainly composed of evaporation cask, condenser and electric control device. This device widely used in the school, laboratory, medical and other fields.

1. Evaporation cask

This part, which is made of high-quality stainless steel sheet, is elaborately produced by making use of advanced technology (rolling, stretching, welding, etc.); seal ring is applied between the cask body and cover, which improves the sealing performance. Water retaining cap is set in the cask cover to effectively prevent water drop being carried in vapor (which will affect the quality of the distilled water). The water will automatically overflow from the overflow pipe when the water in the cask exceeds the limiting water level. Buckle connection is adopted for the cask body and cover, which is convenient for disassembly and removal of scale deposit in the cask.

2. Condenser

The outside of this part is made of high-quality stainless steel sheet; and the inside is made of high-quality seamless stainless steel tube. It is demountable; the heat exchange efficiency is high and it is

convenient for cleaning.
3. Electric control device
Water-break and self-control type: This device mainly comprises contactor, relay and liquid level switch, etc. When break of cooling water source, the heating of water in the evaporation cask will be continued; vapor will be ejected from the distilled water outlet and there is no output of distilled water; some time later, the water in the evaporation cask will be evaporated. When there is an acute lack of water in the evaporation cask, the device can automatically cut off the heat output for stopping heating; meanwhile, sound and light alarm will be sent. After the cooling water flows back to the cask and the working water level is reached, the device can automatically perform connection and heat, and continue produce high-quality distilled water.
Ordinary type: After power on, the heating output is controlled by the switch at the power connection position.

3. Main technical parameters

(Water-break and self-control type) Model	Water yield	Power supply	Power
BER-6501	≥5L/h	AC220-240V	4.5kw
BER-6502	≥10L/h	AC220-380V	7.5kw
BER-6503	≥20L/h	AC220-380V	15kw

Table 1

4. Schematic circuit diagram

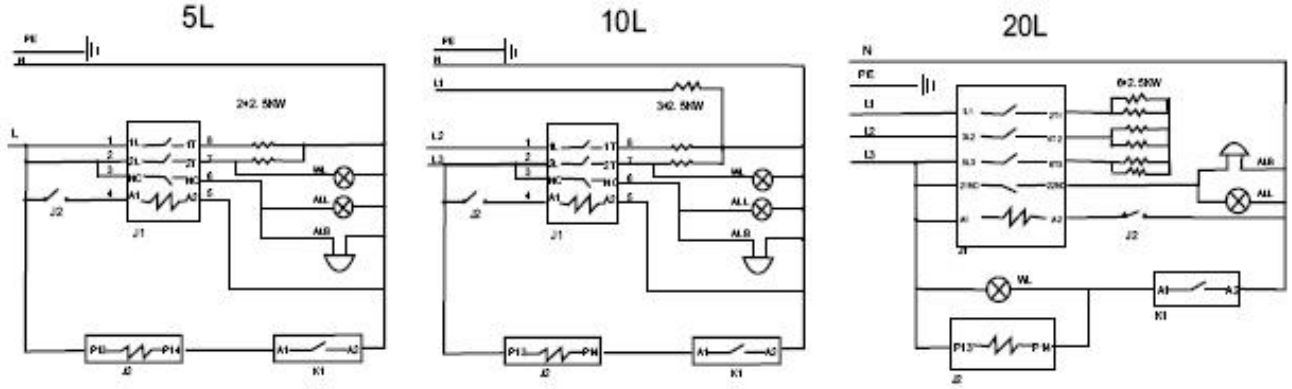


Figure 1



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