



WOSON Medical System

Technical Publications

ASS0010
REV-A



DRINK10 Water Distiller

Operation Manual

Operation Documentation

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Regulatory Requirement

This product complies with regulatory requirements of the following European Directive 93/42/EEC concerning medical devices.

Revision History

Rev	Issue Date	Reason For Change
Rev-A	2011.01.28	First Issue

Please verify that you are using the latest revision of this document. Information pertaining to this document is maintained on manufactory. If you need to know the latest revision, please contact your distributor, sales representative, or our service dept.

Regulatory Requirements

Conformance Standards

The content of this instruction is fit for water distiller.

Above water distiller in accordance with the requirements of 93/42/EEC
EN 61010-1:2001

Certifications

Manufacturer is ISO 9001 and ISO 13485 certified.

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Chapter 1 Introduction

1.1 Attention

- ❖ This manual contains necessary and sufficient information to operate the system safely, like optimal use, a safe and reliable operation, regular and correct servicing requirements.
- ❖ Read and understand all instructions in this manual before attempting to use the product.
- ❖ Keep this manual with the equipment at all times. Periodically review the procedures for operation and safety precautions.

1.2 Application Range

- ❖ The medical distiller is designed by our company, which is for the places that needs High-purity water, such as clinic, Beauty Studio, hospital, laboratory.
- ❖ Operated by adult. Considering Ergonomic, it outstands on convenient using and safety, and continually, it can produce pure water 1L per hour in average.

1.3 Method

The pure water producing method is to transform liquid water into gaseous water by heating, then to achieve pure water(distilled water) through cooling.



1.4 Contradictions

No Contradictions

Chapter 2 Safety

2.1 Symbol Explanation

Device Icon Description

	<p>“ATTENTION” – Refer to this Operation Manual” is intended to alert the user to refer to the operation manual or other instructions when complete information cannot be provided on the label.</p>
	<p>“Protective Earth” - Indicates the protective earth (grounding) terminal.</p>

Operating Tips

Note	Indicates that concerning information which easier or helpful in operation
CAUTION	<p>Indicates that a potential hazard may exist which through inappropriate conditions or actions will or can cause:</p> <ul style="list-style-type: none"> • Minor injury • Property damage. • Damage to machine
WARNING	<p>Indicates that a specific hazard is known to exist which through inappropriate conditions or actions may cause:</p> <ul style="list-style-type: none"> • Severe personal injury • Substantial property damage • Substantial damage to machine

NOTE: Indicates precautions or recommendations that should be used in the operation.

2.2 General Safety Recommendations

- ❖ The user is responsible for operation and servicing the machine in accordance with the instructions listed in this manual.
- ❖ Uncover the top air outlet while using.
- ❖ Keep body shell dry(especially Outlet section for avoiding short current or electric shock).
- ❖ As the cover connects tightly with the body, please press the body with one hand, and pull the cover upward with another.
- ❖ For safety, please protect the cover after open it, for it can close automatically under external pressure.

- ❖ For avoiding leaking, please press the cover, and make sure the cover connects with the body completely.
- ❖ Do not drink pure water in the first bucket. Perhaps, it has the impurity of producing process or packaging process.
- ❖ Do not open the cover while working, because you may hurt by water vapor.
- ❖ Minors are forbidden using!

2.3 Safety Parts

Heating Protect

Part Name	Function
KSD301 Temperature Controller	170 degree C automatic reset. Protecting Electric heating rings from damage of high temperature.
KSD301 Temperature Controller	115 Degree C manual reset. Avoiding auto-heating after water boiled while power on.
KSD301 Temperature Controller	80 degree C automatic reset. For energy-saving and safety, the cooling fan's running is controlled by chamber temperature.

Electric Protection

Part Name	Function
Fuse	Clear the circuit when short circuit or over current.
Rocker Switch (Power Switch)	Convenient to start or end the distiller at any time

CAUTION MANUFACTURER IS NOT HELD RESPONSIBLE FOR ANY ARBITRARY DISASSEMBLY, AMENDMENT WITH THE UNIT, BY UNAUTHORIZED PERSON OR UNPROFESSIONAL TECHNICIAN

2.4 Operating Risk

For avoiding risk, please be cautious at operation.

Operating Risk

For safety, please protect the cover after open it, for it can close automatically under external pressure.

Burn hazard

Do not open the cover while working, because you may burned by water vapour.

The risk of contamination

For avoiding leaving contamination in chamber, please clean chamber as soon as possible.

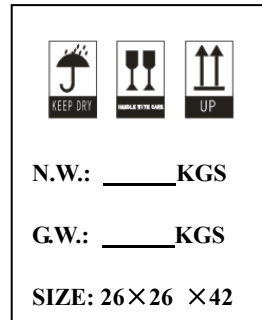
Chapter 3 Receiving and Installation

3.1 Checking the Package

Please check the package carefully when you receive the production, for the production can be damaged by package disrepair anywhere.



Front View



Lateral View

Model

DRINK10

Packing Size
mm

26 X 26 X 42 CM

Packing Weight
Kg

4.4 KG

3.2 Open the Accessories List

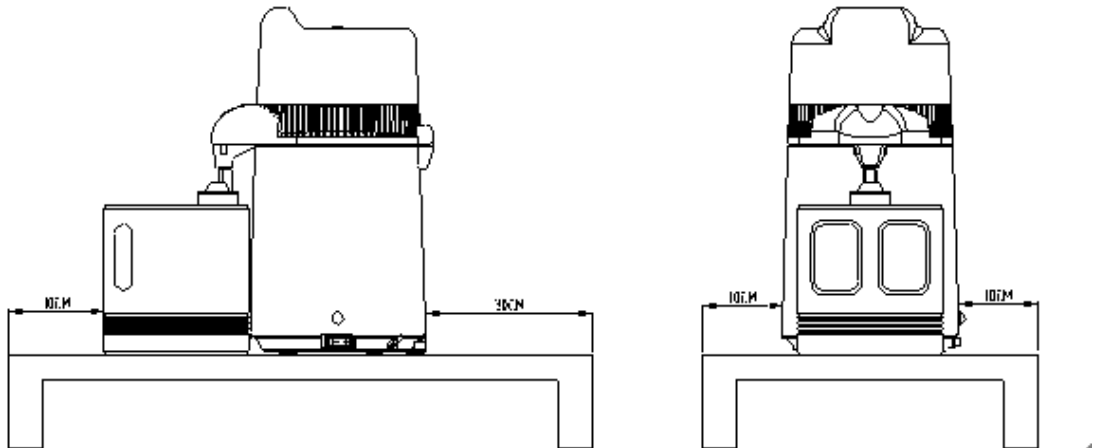
open the package, and count the accessories according to the list:

NO	Part Name	Quantity
1	Faucet	1
2	Two Sizes of Filter	2 of Each
3	Active Carbon	1
4	Abluent	1
5	Rubber Plug in Vent Port	1
6	10A Fuse	1
7	Distilled Water Bottle	1
8	Bottle Cover	1
9	Diversion port	1
10	Operation Manual	1
11	Power Cable	1



3.3 Working Environment

Distiller installation should be left at least 10cm all around, and 20cm to the top.



Advise installing in an environment with good condition of ventilation.

Ambient temperature: 0-30°C

Relative humidity: ≤80%

Air-pressure: 860Hpa~1060Hpa

Earthing

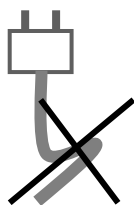
3.4 Installation

- ❖ Set the distiller on a stable surface, and keep at least 10cm from graphic edge.
- ❖ For safety, please remove all stuff from distiller.
- ❖ For convenient operation, please remove all stuff in front of distiller.
- ❖ Do not set bottle with rusty liquid around distiller, for eliminating potential hazard while Thermal distillation.

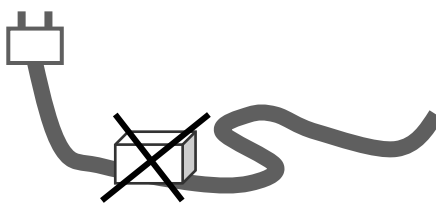
3.5 Power Connector

- ❖ Check the nameplate under distiller bottom whether it corresponds relevant supply voltage or not.
- ❖ The provided cable location is in the bottom side.

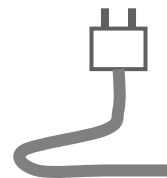
Caution Do not split or fold power cord for avoiding power cord damage!
 Do not put any heavy stuff on the power cord for avoiding power cord damage!
 Do not use other power cord for avoiding Electrical components damage!
 Do not use lengthened power cord for avoiding current leakage!



Wrong



Wrong



Right

Chapter 4 Product Description and Specification

4.1 Front View



Name	Description
1 Filter Tip	Collecting and filtering distilled water
2 Cover	The upper part of distiller, including Condensation cooling system
3 Body	The main part of distiller, including chamber and heating system
4 Temperature Protection Switch	Temperature protection of the reset switch
5 Power Switch	In charge of power, indicator light in power switch on means the distiller is working.
6 Collecting Bucket	The vessel of collecting distilled water

4.2 Lateral View

Name	Description
7 Power Outlet	Connect the power
8 Fuse Holder	The place of installing fuse
9 Connecting Joint	Connection with the lower body upper body joint

4.3 Open View



	Name	Description
10	Obturing Ring	To airproof the cover and the body
11	Rubber Plug in Vent Port	To prevent water into vent port which may influence the purity of distilled water
12	Cover	The stainless steel cover of chamber to keep heat and
13	Chamber	The stainless steel chamber to heat water

4.3 Size and Capacity

Size	DRINK10
External Size	225×270×370mm
Packing Size	260×260×420mm
Full Level Capacity	Φ180×142

4.5 Specification

<p>Essential Parameter</p> <p>Rated Volyage: a.c.220V-240V,50/60Hz</p> <p>Rated Power: 750VA</p> <p>Fuse: 250v T10A</p> <p>Operating Temperature: 5~40°C</p> <p>Noise:< 50db</p> <p>Speed: 1.2L/H</p> <p>Water Rate: ≥96%</p>	<p>Chamber</p> <p>Material: Stainless Steel304</p> <p>Maxium Capacity: 4L</p> <p>The Highest Temperature: 120 °C</p> <p>Volume Cavity Size:φ180*185</p>
	<p>Temperature Safety Protection:</p> <p>Cavity temperature protection: 115 °C</p> <p>Temperature of the heating element protection: 170 °C</p>

Chapter 5 Operation Process

5.1 Setting

Open the packing chest. Take the distiller out of the chest. Then take the storage bucket out of the distiller. Set the distiller on a stable surface in terms of picture 1.

5.2 Water-adding

Open the cover (As picture 2). Pour proper volume of water into the chamber within the highest waterline. (Remark: As the cover connects tightly with the body, please press the body with one hand, and pull the cover upward with another.)

ATTENTION As the cover connects tightly with the body, please hold the body with one hand, and pull the cover upward with another.

5.3 Power Connector

Set the storage bucket stably according to picture 1, insert the one end of power cord into the body, and another into correct electric outlet.

5.4 Starting

Open the power switch (If the power switch off, press the heating button), If the indicator light in power switch on, it means start to heating. After a period of time, the cooling fan will run automatically for distilling.

It takes about 3.5 hours to distill 4L water, and the first pure drop will appear after half an hour, according to local temperature.

WARNING FOR AVOIDING BEING SCALDED, DO NOT OPEN THE COVER WHILE WORKING.

5.5 Ending

When distilling finished, the heating system will stop automatically, and indicator light will be off. However, the cooling fan will keep running until the chamber temperature drops below 70 degree C.

CAUTION Heating button is in charge of heating process start. The heating process will stop automatically when there is no water or no water for distilling. (When heating, indicator light in power switch on; stopping, off). Power switch controls both of heating and cooling fan's running.

CAUTION For filtering, the distiller is furnished with active carbon. In accordance with demand, you can put the active carbon into the faucet, and cover with filter cap. Remark: replace the active carbon regularly.

CAUTION As upper cover is heavy, do not open and erect it while using.

5.6 Power Off

Please Close the power switch when no longer in use.

Please pull the end of power cord out of electric outlet when no longer in use of distiller.

Chapter 6 Maintenance

6.1 Maintenance Schedule Chart

Maintenance Required	Person Responsible
Daily	
Clean Body	User
Clean Chamber	User
Clean Storage Bucket	User
One Month	
Clean Chamber with Abluent	User
One Quarter	
Filter Tip Replacement	User

6.2 Daily Maintenance

Clean Body and Chamber

Please clean and drain the chamber and body with soft towel after using.

WARNING DO NOT CLEAN DOOR OR ASSEMBLE CHAMBER WITH METALLIC BRUSH, STEEL WOOL OR PRODUCTS CONTAINING CHLORIDE. TO AVOID SCALD, PLEASE MAKE SURE DISTILLER IS COOLED DOWN BEFORE CLEANING.

Cleaning Storage Bucket

Storage Bucket can be disinfected and cleaned with warm (hot) water, and it will not be out of shape by hot water.

6.3 Monthly Maintenance

Cleaning Chamber with Abluent

The internal of stainless steel tank need to be washed with clean water in order to remove the distillation residual precipitation and impurities. And please clean the stainless steel tank per month (or depend on the quantity of dirt within the slot), with the detergent which we recommend to you ,the procedure as follow:

- A. Add enough (hot) water into tank till cover dirt.
- B. Put one or four (depends on quantity of dirt) spoon of detergent into tank.
- C. Heat water with lid opened
- D. Pour out water after 30 minutes, and then wash the tank with clean water.
- E. If cannot remove all dirt, please repeat process.
- F. Residual dirt will not affect health, please feel free to use the machine.

6.4 Quarter Maintenance

For guarantee the purity and quality of distilled water, you need to replace the faucet regularly.

The step as follows:

- A. Push the left or right side of faucet, and then pull it, you can take it off.
- B. According to the way of taking, you can put it on in an opposite way.
- C. Repeat those steps when it needs to replace.

ATTENTION PLEASE INSERT THE ACTIVE CARBON INTO FILTER BEFORE INSTALL FAUCET WHEN YOU NEED ACTIVE CARBON FOR FILTERING.

Chapter 7 Troubleshooting

No.	Fault	Description	Solutions
1	No distilled water out	Not heated (indicator dawn), heating switch is not open	Press heating switches (this switch design is tight, please skill protect living organism, another hand pressure heating switches)
		Not heated (indicator dawn), fuse disconnect	Replace the fuse (10A)
		Not heated (indicator dawn), socket not connected	Check socket and connect it
		Tank without water injection	Add water into tank
		Master switch is not opened	Open master switch
2	Water production can not reach the standard. (Standard is more than 96%)	Rubber seal ring between lid and tank is not tight.	Replace the rubber seal ring.
		Lid is not closed tightly, air leaks.	Close tightly
		Dirt cover on condense pipe wall thickly, affects the condensing effect (water temperature higher than 50 degree)	Maintenance by professionals
3	Water leakage	Cover checkpoint. missing tight, steam leakage, condensing into water, and outflow.	Please check the lid and tight it.
		Distilled water outflow form nozzle is over-heat, steam around nozzle condensing into water.	Environmental temperature higher than 40 degrees, there will be few outflows. The proper temperature is lower than 30 degrees.
			Dirt on condense pipe wall is thick, affects the condensing effect, need to be maintained by professional
		Fan does not work. maintained by professional	
Rubber seal ring between lid and tank is not tight. Air leakage and condensing into water, and outflow.	Replace the rubber seal ring		
Note: in case the related issues not mentioned above, please contact with us or outlets to solve.			

Chapter 8 Transport and Storage

8.1 Preparing for Transport and Storage

Power off, pull the plug out. Make sure the machine has been cool. Then drain the body, chamber with towel.

8.2 Transport and Storage Conditions

Temperature: -5 °C ~ +55°C

Humidity Level: ≤85%

Air-pressure : 500HPa~1060HPa

8.3 Package

For protecting, transporting and marketing in transportation, the package should be packed firmly and prevents production from pressing.

Appendix 1 Electrical Connection Diagram

