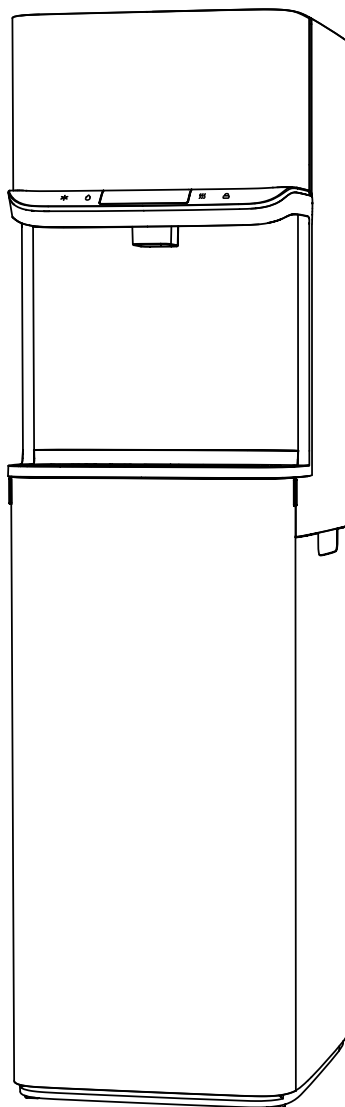


# **AQUAPHOR®**

water filters



## **Instruction Manual**

### **H20-C (RO PRO 100)**

Please read this manual  
carefully before using.

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# 1. USE TO OUR CUSTOMERS

Thanks for choosing our product AQUAPHOR H20-c. In order to use and maintain this product correctly, please read the manual carefully before using. Keep the manual properly.

1. This is a vertical water dispenser, please place it on the ground firmly to avoid falling.
2. Operation conditions:
  - Water source: municipal tap water
  - Feed water pressure: 0.1 MPa ~ 0.4MPa
  - Feed water temperature: 5-38°C
  - Altitude: <1500 meter
3. Check the product from time to time to see if there is any leakage on the connections or any creepage on the wires. If the product fails, please cut off the water and power supply immediately, and contact your dealer.

4. If this product won't be used for a long time, cut off water and power supply. If it hasn't been used for more than 3 days, drain off all the remaining water in tanks and flush the system for more than 5 minutes before putting it into use again.

5. This product is strictly forbidden to be operated by children and is designed for indoor use only. Do not use it in an explosive environment.

6. Every machine will be going through a water leakage test before packing. It is normal to have residual water stains.

7. Installation and maintenance should be performed by a professional. Its necessary to follow this instruction manual strictly, otherwise our company will not be responsible for any failure or consequence.

## 2. PRODUCT FEATURE INTRODUCTION

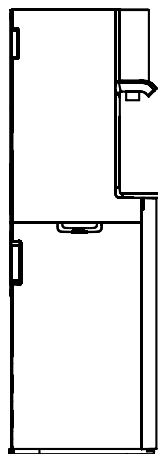
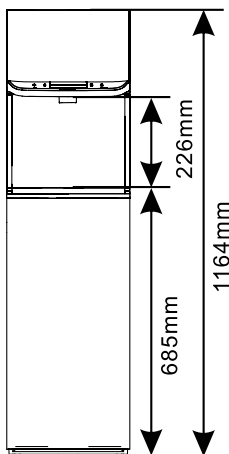
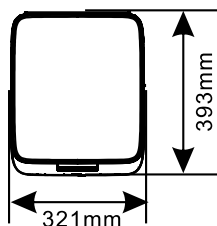
### Product Introduction

Water Dispenser with hot, cold, and ambient water.

Recommended installation places: office, club, hotel, airport, train station, etc.

### Product Dimension

321\*393\*1164 mm



### Water treatment process

Feed water → Pro1 → Pro 100 → Pro M → Output water

## Main function

Filter Cartridges		Function
1 <sup>s</sup> Stage	Pro 1	Further remove organics, chlorine, odor, color and turbidity
2 <sup>nd</sup> Stage	Pro 100	Remove bacteria, heavy metals, dissolved matters and salinity
3 <sup>rd</sup> Stage	Pro M	Mineralizes water
Output Water		Ambient / Hot / Cold

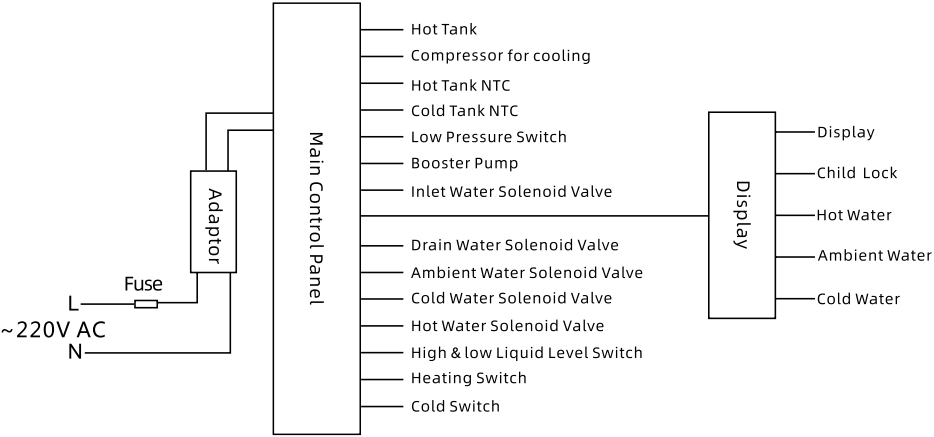
## 3. PACKING LIST

Name	Quantity	Name	Quantity
Main Body	1 set	Additional cartridge for leak protection valve	1 pc.
Pro 1	1 pc.	Tube 1/4", 4 m	1 pc.
Pro 100 (RO Membrane)	1 pc.	Flush plug	1 pc.
Pro M	1 pc.	Drain clamp	1 set
Connecting node	1 pc.	Instruction manual	1 pc.

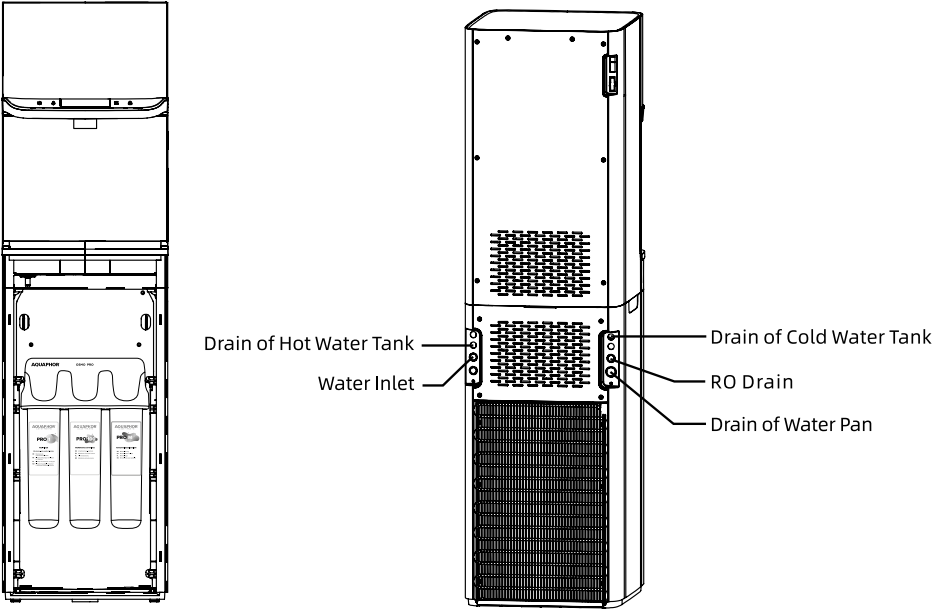
## 4. TECHNICAL PARAMETERS

Model Type	H2O-C (5L Pure water tank / 1.8L hot tank / 3L cold tank)
Inlet water pressure	0.1 MPa ~0.4 MPa
Inlet water temperature	5–38 °C
Voltage and frequency	220V, 50Hz / 110V, 60Hz
Rated power	650W
Heating power	500W
Cooling power	100W
Purified water flow	15.6 L/Hour
Hot water temperature	88–93 °C
Hot water tank capacity	1,8 L
Cold water temperature	5–10 °C
Cold water tank capacity	3 L
Ambient water tank capacity	5 L
Noise level	59 dB
Dimensions (LWH)	321 x 393 x 1164 mm
Net weight	22.2 kg
Gross weight	24.5 kg

# 5. ELECTRIC SCHEMATIC DIAGRAM



# 6. STRUCTURE INSTRUCTION



## 7. INSTALLATION PROCEDURES

### 1. Tools Required:

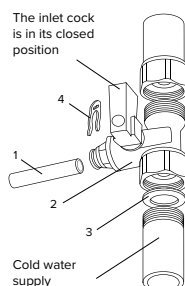
- Cross screw driver
- Adjustable wrench
- Scissors

2. Please check if the accessories are complete as packing list mentioned.

### 3. Installation position required:

- Close to 220V/110V socket.
- Close to municipal tap water source.
- Close to drain outlet, please note that the position of drain pipes should be at least 20 cm lower than water pan.

### 4. Install the connection node.



**ATTENTION! The end of the pipeline must be flat, where the connecting node is connected. Do not use excessive force when tightening the clamping nut. Otherwise, it will damage the gasket.**

In the event of any mechanical damage to the connecting node due to improper installation and use, claims will not be accepted.

- Shut off the cold water line and relieve excess pressure.
- Make sure that there is a sealing gasket (3) in the clamping nut of the connecting node (2).
- Connect the connecting node (2) to the pipeline. If necessary, use tread seal tape to seal the external thread of the node.
- Close the inlet cock of the connecting node and supply water from the cold water supply line to make sure that the connection is tight (no leaks).
- Pull the retaining clip (4) out from under the plastic sleeve of the connecting node (2).

• Insert the pre-moistened end of the tube of the water filter (1) into the plastic sleeve of the connecting node (2) until it stops about 15 mm deep and house the clip (4).

• Check the tightness of the tube (1) fastening: with a force of 80–100 N, the tube should not be pulled out.

• Wrap threads of the connection node with Teflon tape.

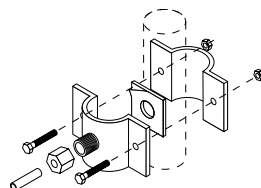
### 5. Install the drain clamp.

• Remove the protective film from the gasket. Bond the gasket to the inside of the clamp so that the hole in the gasket matches the hole in the clamp fitting.

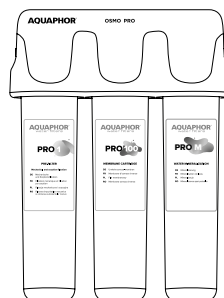
• Place the clamp on the pipe and then tighten the bolts. The bolts should be tightened evenly so that the two pieces of the clamp are parallel.

• Drill a 7 mm hole through the clamp connection. Put a plastic nut on the free end of the drain tube and, inserting the tube into the drain clamp by 20–30 mm, screw the nut onto the fitting.

6. Connect the silicon tube to the drain of the water pan or a bucket.



7. Take off the front panel and install filter cartridges to water purifier according to the labels indicated below.



8. Install the new cartridges and flush the machine

- Take off the front panel of the dispenser.
- Shut off the water supply (close the inlet tap on the connection unit) and unplug the power cord, prior to installing or replacing new cartridges.
- Remove required cartridge by turning the cartridge counterclockwise and taking it out.

### **To replace PRO 1 / PRO M cartridge follow the next steps:**

- Remove the overwrapping film from the new PRO 1, PRO M cartridges.
- Insert the new PRO 1 and PRO M cartridges into the corresponding collectors until they stop and turn clockwise, until a click.
- Insert the service plug into the central slot (the slot of the reverse osmosis membrane unit).
- Open the inlet tap on the connection unit, connect power supply and power on, the machine will start producing water. During this period, the switch for heating should be off\*.
- After the machine completes water production, cut off the water and power supply. Connect the silicon tube to "drain of hot water tank" and connect the other end to drain of the house or a bucket to drain out all the water in the tank.
- Remove the service plug from the slot of the reverse osmosis membrane unit.
- If PRO 100 cartridge does not require replacing – take off the silicon tube and insert the PRO 100 cartridge back.

### **To replace PRO 100 cartridge follow the next steps:**

- Remove the overwrapping film from the new PRO 100 cartridge, then insert the cartridge into the slot of the membrane filter until they stop and turn clockwise, until a click.
- Open the inlet tap on the connection unit, connect power supply and power on, the machine will start producing water. **During this period, the switch for heating should be off\*.**

- After the machine completes water production, cut off the power supply. Connect the silicon tube to "drain of hot water tank" and connect the other end to drain of the house or a bucket to drain out all the water in the tank.

- Power on again and make the machine produce water and then drain out all the water in the tank after water production is completed. Repeat the process of filling and flushing 2 to 3 times. During this process, pay attention to all connections to see if there is any leakage.

- After flushing, take off the silicon tube and pack it up. Block the "drain of hot water tank".

- Cover the front panel.

- Open the inlet tap on the connection unit, connect power supply and power on, the machine will start producing water. During this period, the switch for heating should be off\*.

### **Reset the filter life**

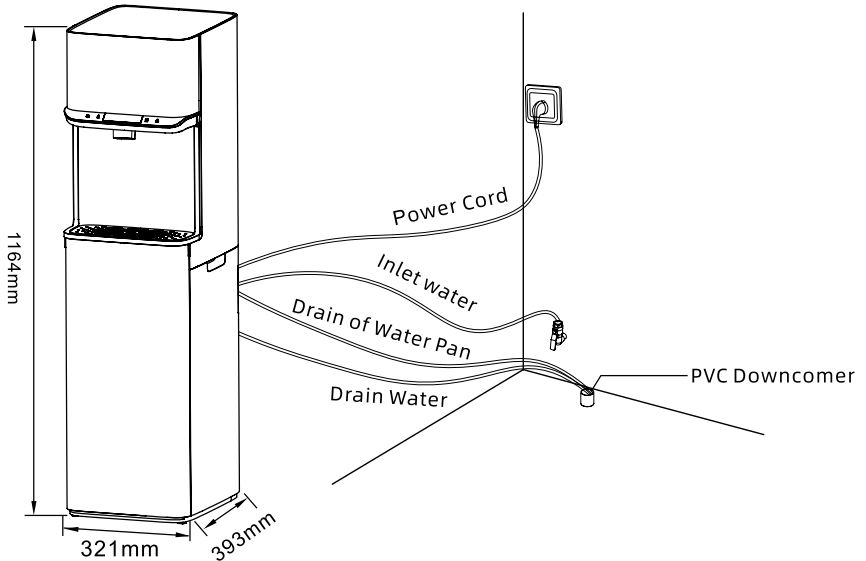
- Press the "Ambient Water collection" button and "Cold water collection" button for 3 seconds, and then the machine will enter filter life reset mode.
- Press the "Ambient Water collection" button again to select the filter required to be reset, and the Life indicator of filter reselected will be flashing. Then hold on the "Ambient Water collection" button for 3 seconds to complete the reset.
- The machine will exit the filter life set mode if there is no operation within 10 seconds.
- After that the dispenser can be used.

**\* ATTENTION! After connecting the dispenser, wait until the tank is filled (about 30 minutes), otherwise overheating of the system and tripping of the fuse may occur.**

## 8. HOW TO INSTALL

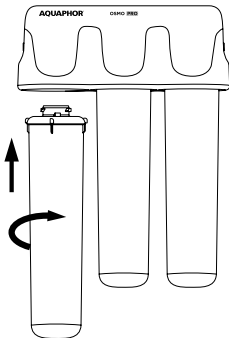
### Install the drain pipe:

Firstly, cut two pieces of PE pipes in suitable length and make sure the notches are flat and smooth. And then, connect the outlet of RO drain water and Water Pan to PVC downcomer.



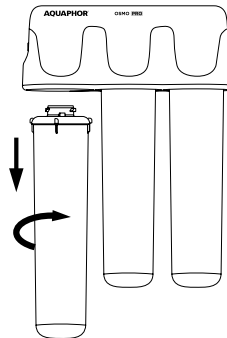
### Install the filter cartridge:

1. Take off the front panel of the dispenser.
2. Insert the filter cartridge into the cap and then twist the body of the cartridge clockwise until match the right position.



### Replace the filter cartridge:

1. Take off the front panel of the dispenser.
2. Twist filter cartridge anticlockwise to disassemble it and then install a new one as above.



Please pay attention to the positions of filter cartridges and install them in right order (see Fig. 6).



## 9. HOW TO USE

### Service Life of Filter Cartridges and Filter change Reminder.

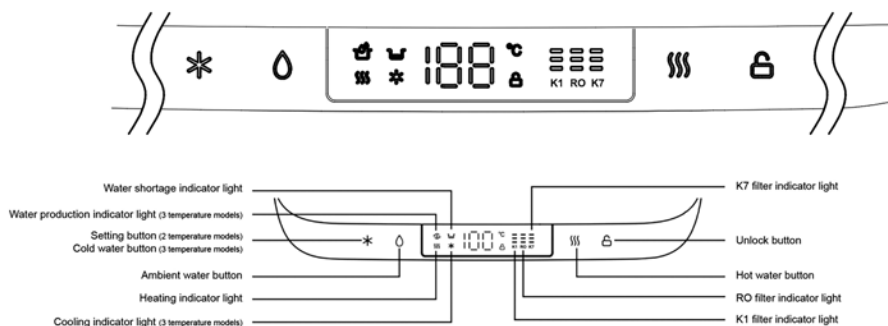
Cartridge	Cartridge lifetime	Indicator light status
PRO 1 cartridge (K1 on display)	Full life: 150 hours	
	Remaining life > 0	150-100 hours display 3 grids, 100-50 hours display 2 grids, 50-0 display 1 grid
	Remaining life = 0	All filter bars flash
PRO 100 membrane (RO on display)	Full life: 600 hours	
	Remaining life > 0	600-400 hours display 3 grids, 400-200 display 2 grids, 200-0 display 1 grid
	Remaining life = 0	All filter bars flash
PRO M cartridge (K7 on display)	Full life: 300 hours	
	Remaining life > 0	300-200 hours display 3 grids, 200-100 display 2 grids, 100-0 display 1 grid
	Remaining life = 0	All filter bars flash

Each light indicator will flash when its corresponding filter cartridge's lifetime is run out.

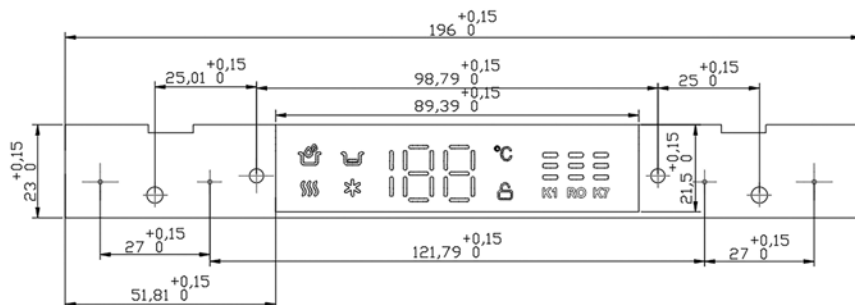
## 10. SPECIFICATION OF ELECTRONIC PARTS

### 1.UI

#### 1.1. Product work UI interface

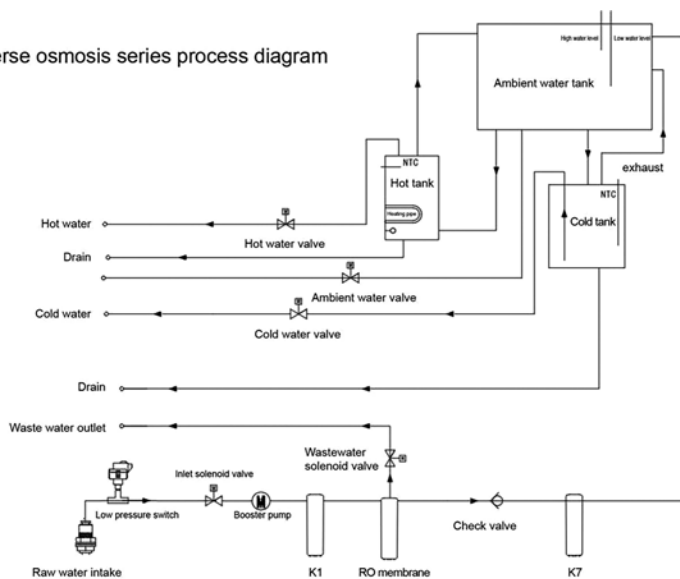


## 1.2. Display size









## 2. Waterway schematic

## H2O reverse osmosis series process diagram



### 3. Key Icons and Functions

No.	Icon name	Icon	Icon color	Function Description
1	Cold water outlet button		White	Touch to get cold water, and then touch to stop cold water. After opening, no one operates, and the water will automatically stop in 1 minute.

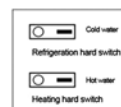
2	Ambient water outlet button		White	Touch to get ambient water, and then touch to stop the water. After opening, no one operates, and the water will automatically stop in 1 minute.
3	Filter display	 K1 RO K7	White	They are K1 (Pro 1), RO (Pro 100), and K7 (Pro M) respectively. Each grid represents 1/3 of the life. When the life is less than 1/3, one grid will be off. When the life is complete, the letters corresponding to the filter cartridge will flash to alarm.
4	Water temperature display, child lock		White	Touch the "Cold water" key to display the cold water temperature, touch the "Hot water" key to display the hot water temperature. Touch the "Ambient water" key, don't display the temperature.
5	Water production, water shortage, heating, cooling		White	The "Water Making" icon lights up, indicating that the machine is in the working state of the pump (if it is a reverse osmosis system, the pump refers to the booster pump), extinguished, indicating that water production has stopped; "Lack of water" indicates that the machine is short of water and the water tank is at low position. The "Heating" light comes on and the machine starts to heat up. The "Cooling" light is on, and cooling begins. When it is finished, the corresponding light goes out.
6	Hot water, child lock key		White	Unlock and click the hot water button, the hot water will come out. After opening, no one operates, the water will automatically stop in 1 minute, and it will be automatically locked at the same time. If it is unlocked, there is no operation after that, 10S will automatically lock
Remark:	This machine can provide three temperatures of water, if one of them is in the water, press any other button, it will not affect the current water, if you want to choose another temperature of water, just turn off the current water, and re-select another temperature, then it can water normally.			

## 4.1 Refrigeration switch

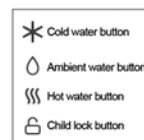
Controls whether the machine allows the cooling function to be enabled.

**The switch is closed:** Press from the "O" state to the "-" state to turn off the refrigeration function of the machine.

**The switch off:** Press from the "-" state to the "O" state to turn on the refrigeration function of the machine.



(back of the machine)



## 4.2 Heating switch

Controls whether the machine allows the heating function to be enabled.

**The switch is closed:** Press from the "O" state to the "-" state to turn off the heating function of the machine.

**The switch off:** Press from "-" state to "O" state to turn on the heating function of the machine.

## 5. Function description

5.1. Fault Display the corresponding fault code:

- 02 indicates that the NTC probe is faulty, short-circuited or disconnected;
- 03 Water shortage fault, when the water level (low water level or high water level) is still not detected after 60 minutes of water production, this code appears;
- 04 When the low pressure switch is faulty, when the low pressure switch is disconnected for 1S, it means that the raw water is short of water, the water pressure is insufficient, or the low pressure switch is faulty, and this code appears. When there is a fault, the fault indicator will flash continuously, and it will be accompanied by the sound of the buzzer.

5.2. Power-off memory function, the electric control board has power-off memory function.

5.3. Power-saving mode function, the machine automatically enters power-saving mode without taking water for 100 seconds, and the display screen is slightly bright. Press any key to restore the system to normal working state.

5.4. Filter life reset: Press the set key: long press \* ∅ for 3S at the same time, when "heating" icon starts flashing, touch ∅ (the touch sequence of continuous output water is "heating" – "cooling" – K1 – RO – K7), then select the related filter cartridge to reset, long press \* for 3S, then the filter cartridge finished reset, after all settings are completed, long press \* ∅ for 3S to complete the setting.

5.5. The temperature setting (only for hot water and cold water): long press \* 0 for 3S at the same time, when "heating" icon starts flashing, touch 0 (the touch sequence of continuous output water is "heating" – "cooling" – K1 – RO – K7), when "heating" flashes, touch 3, to raise the temperature, and touch 6 to lower the temperature. The hot water temperature ranges from 50 °C to 93 °C. After the hot water temperature is set to the desired temperature, touch 0. Making cold water: After "Cooling" starts blinking, the temperature setting procedure is the same as that for hot water. The range of cold water temperature is 3 °C to 15 °C. After all settings are completed, long press \* 0 for 3S to complete the setting. If you don't press any key, it will exit automatically 10S later.

5.6. Version display: Press \* 6 for 3S in normal state to enter the version display, the current version number is 101.

5.7. Check the hot water temperature: when 6 is not unlocked, touching 3 will display the hot water temperature, and when the button is released, the hot water temperature disappears.

## 6. Simple program description

6.1. Safety inspection when plugged in and powered on. The buzzer of the machine will sound once after the power is turned on. If the water level of the water tank cannot detect the low water level, the heating and cooling functions of the machine's hot tank and cold tank will not be activated. At this time, the pump starts to work and rinses for 30 seconds and then starts to produce water. When the water level detects the bottom water level, the hot tank and the compressor start to work (the fan works with the compressor), and when the water is produced until the high water level, the pump (booster pump or water pump) stops working to produce water.

6.2. When the machine is working normally, the logic of water production, when the machine is in the water outlet state, starts water production when the water level of the water tank reaches the low water level, and stops water production when it reaches the high water level. When the machine is in the state of no water, when the water

is in the middle of the high water level and the low water level, when the high water level is not detected for 30 seconds, the machine starts to make water until the high water level is reached. When the water level (low water level or high water level) is not detected after 60 minutes of water production, this code 03 water shortage alarm will appear.

6.3. Hot water temperature compensation, when the temperature is between 51°C and 74 °C, add 4 °C to the displayed temperature, and when the temperature is 74 °C to 90 °C, add 9 °C to the displayed temperature, and when the temperature is greater than 90 °C, display 100 °C, when the temperature is ≤51 °C, displays the real-time temperature.

6.4. Heating and cooling logic.

6.4.1. Heating logic.

The factory program of the water dispenser sets the default temperature to 93 °C. When the temperature reaches 94 °C, the water dispenser stops heating. When the temperature drops to a temperature difference of 5 °C from the set temperature, it starts to heat.

6.4.2. Refrigeration logic

The factory default setting temperature of the water dispenser is 3 °C. When the sensor detects the set temperature, the compressor stops working. When the temperature rises to 6 °C, the compressor starts to work.

## 7. UV lamp function

Turn on forcibly for 1 hour, and then turn on for 20 minutes every 40 minutes for sterilization.





## Product Warranty

Product	Filter Dispenser Aquaphor H20-c (RO PRO 100)
Serial Number	
Purchase date	
Customer	
Seller	

### Terms of Service and Warranties

Aquaphor products are backed by some of the most comprehensive warranties in the industry. Aquaphor warrants that the Aquaphor water filtration system shall be free from defects in material and workmanship under normal use and service.

Filter Dispenser Aquaphor H20-c (RO PRO 100) – Two Year Warranty from the date of purchase. This does not apply, however, to consumable filters.

#### Exclusions and Limitations

1. Aquaphor warrants its products to be free from manufacturing defects under normal use and service. This warranty is extended only to the ORIGINAL PURCHASER.

2. Aquaphor obligations under this warranty are limited to repairs or replacement, at Aquaphor's option, of products or parts found to be defective, provided that such products were properly installed and used in accordance with instructions. Aquaphor reserves the right to make such inspections as may be necessary in order to determine the cause of the defect.

Aquaphor will not charge for labor or parts in connection with warranty repairs for the first full year from date of purchase on all products except those that may be subject to commercial use limitations.

3. Aquaphor is not responsible for the cost of removal, return (shipping) and/or reinstallation of products.

This warranty does NOT apply to:

- Damage or loss which occurs during shipment.
- Damage or loss sustained through any natural or man-made causes beyond the control of Aquaphor, including but not limited to fire, earthquake, floods, etc.
- Damage or loss resulting from sediments or foreign matter contained in a water system.
- Damage or loss resulting from negligent or improper installation including installation of a unit in a harsh or hazardous environment.
- Damage or loss resulting from removal, improper repair, modification of the product, or improper maintenance including damage caused by chlorine or chlorine related products.
- Damage or loss resulting from acts which are not the fault of Aquaphor or which the Product is not specified to tolerate.

4. This warranty gives you specific legal rights. You may have other rights which vary from state to state.

**AQUAPHOR®**  
water filters

Manufacturer: Aquaphor International OÜ,  
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sales@aquaphor.com, www.aquaphor.com

Date of manufacture and quality control

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