



INSTRUCTION MANUAL

REVERSE OSMOSIS 1200GPD

The Reverse osmosis 1200GPD device filters impurities and particles such as sediments, dirt, rust, chlorine, odours, lead, organic matter, and heavy metals from your water.

Enjoy pure, high-quality water straight from your tap

Thank you for purchasing the ***direct flow 1200GPD reverse osmosis*** water purification system, which provides purified water to your home.

This RO device filters can filter impurities and particles from water, such as sediment, dirt, rust, chlorine, odours, lead, organic matter and heavy metals, providing better water quality.



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SAFETY

All safety information detailed in this manual should be reviewed prior to installing and operating this water purification system to ensure proper installation and maintenance. Warnings and precautions are provided; failure to read the instructions could result in damage to the equipment and invalidate the equipment warranty.

- Please check that the product is **not damaged** and that it comes with **all accessories**.
- **Do not use other accessories** not permitted by the manufacturer to avoid damage to the equipment.
- This product is **not a toy**; please keep the system and packaging out of the reach of children.
- The system is designed for **indoor use only**. Install the system out of direct sunlight and inclement weather.
- **Do not move the system** without first turning off the water supply, draining it, and checking the water pressure.
- This equipment must be used with **cold water** from the municipal water supply. It must not be used with hot water or unknown or unsafe water sources.
- This equipment must only be installed and repaired by **authorised and qualified personnel**.
- **In the event of a malfunction**, disconnect the equipment from the power supply and shut off the water supply to the system. If any part of the system is damaged or missing, replace the item before use.
- The flow of purified water will be **affected by the quality, pressure, and temperature** of the incoming water.

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SAFETY

SYMBOLS IN THE INSTRUCTION MANUAL:



WARNING: This sign indicates an operation in accordance with the requirements.



ATTENTION: This sign indicates that attention must be paid.



PROHIBITED: This sign indicates a prohibition.



Do not dismantle the equipment without professional guidance to avoid leaks or damage.



If any faults occur, immediately turn off the water and electricity supply.



Use the machine in conditions between 4 and 40 °C.



Keep the equipment out of the reach of children.



If not used for more than 24 hours, turn off the water and electricity supply to the equipment.



Please call the official technical support service for assistance.



Use only original accessories and cartridges to ensure proper functioning.



Avoid direct sunlight.



Only professional personnel may repair and maintain the equipment.



Do not place the equipment in conditions below 4 °C.



Do not place the equipment near flammable and explosive products.

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OPERATING GUIDELINES

The following table lists the operating parameters for this product. Use of this product outside of these specifications may cause system performance issues and even result in personal injury and void the warranty. Contact your supplier for advice and assistance if you are unsure of the requirements.

OPERATING PARAMETERS	
Model	Direct Flow 1200
Max. flow rate*	3.15 L/min.
Nominal purified water capacity*	3,600 L/24 hours
Energy requirements	220 V ~ 50/60 Hz 140 W
Type of feed water	Water from the municipal network
Feed water pressure (min. - max.)**	1 - 4 bar
Feed water temperature	5 - 38 °C
Max. level of TDS in feed water***	Maximum 1,500 ppm
Purifier dimensions (D x W x H)	360 x 150 x 350 mm

* Values according to pressure, temperature, and quality of the water to be treated.

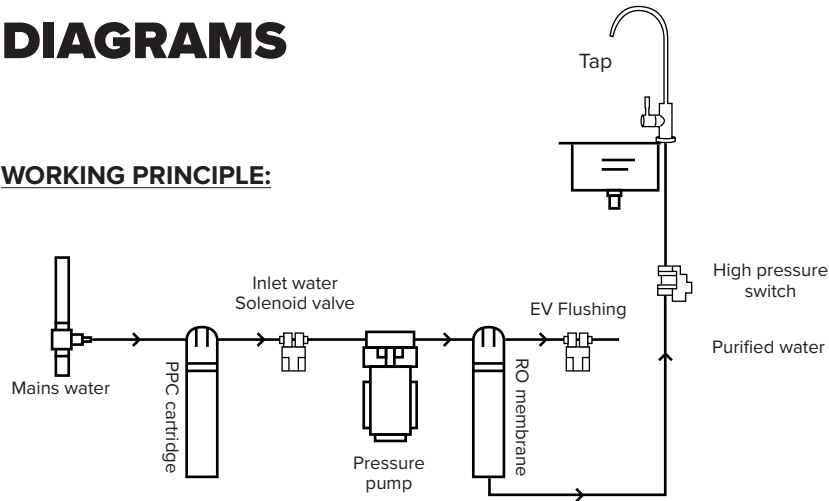
** Note: Install a pressure regulator if the feed water exceeds this pressure.

*** TDS = Total dissolved solids, which is the total weight of all solids dissolved in a given volume of water, expressed in units of milligrams per unit volume of water (mg/L), also known as parts per million (ppm). With a TDS meter, you can easily compare the output quality of the system with that of the source water to help monitor system performance.

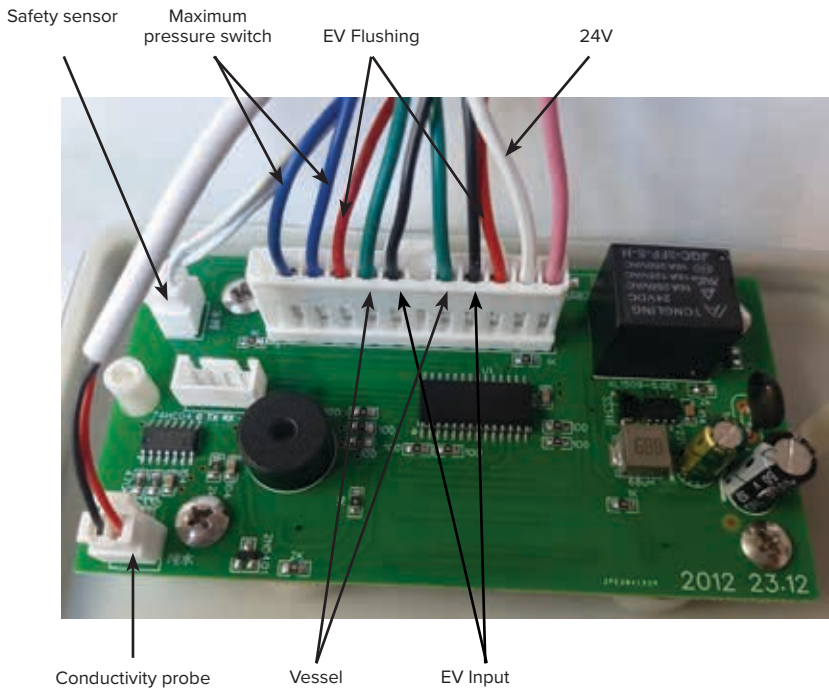
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DIAGRAMS

WORKING PRINCIPLE:



ELECTRICAL DIAGRAM:



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FEATURES

PRODUCT FUNCTION

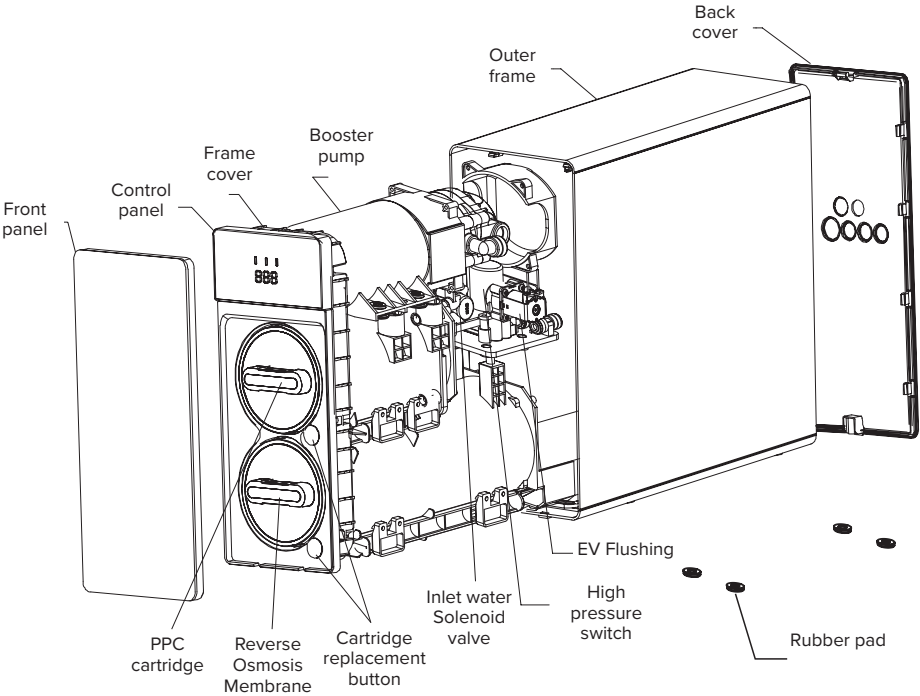
First stage: PPC moulded polypropylene + activated carbon filter element removes suspended matter in water, sediments, rust, insects, colloids and other large volumes of impurities. It also removes most of the organic matter in water, residual chlorine, water disinfection by-products, heterochromatic odour, some heavy metals and other harmful substances.

Second stage: Reverse osmosis RO membrane, polymer reverse osmosis technology, filtration pore size of 0.0001 microns, effectively removes organic matter, microorganisms, chemical residues, bacteria, viruses, heavy metals , and other harmful substances present in the water.

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INSTALLATION & MAINTENANCE

SYSTEM CONTENT



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INSTALLATION & MAINTENANCE

PLAN YOUR INSTALLATIONS

The system can be installed under a sink, in the laundry room, or utility room. Review the location options below and determine where your system will be installed. This equipment must only be installed by authorised and qualified personnel.

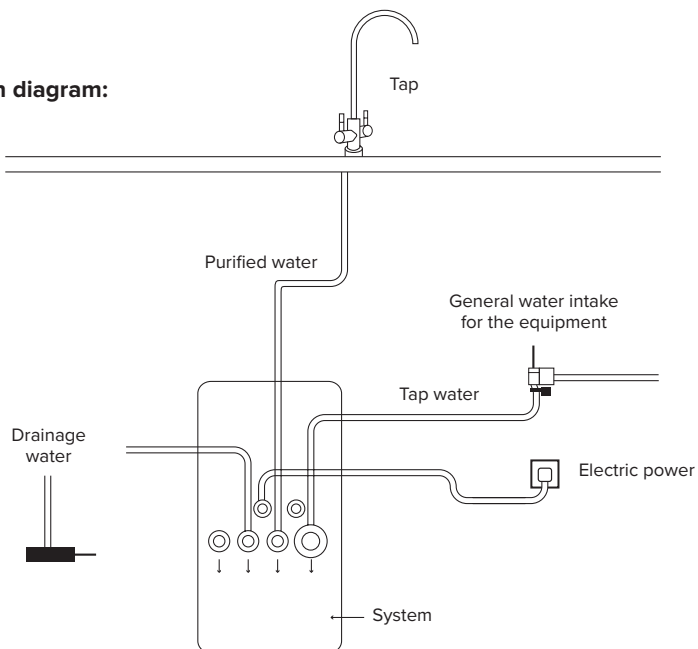
Check location and space requirements

Determine and verify the size and position of the equipment for proper installation in the chosen space, and remember to leave sufficient space around the system for changing filters and performing maintenance tasks. Installation environment requirements:

- Water intake
- Drainage
- Power socket

The location where the equipment is installed must be clean, free from contamination and direct sunlight. It must be a non-flammable and non-explosive environment.

Installation diagram:



INSTALLATION & MAINTENANCE

Installation and connection of quick connectors

The Direct Flow 1200 water purification system utilises quick-connect fittings (QC), making installation simple and straightforward.

How to release the tube (or cap) from a quick-connect fitting:

1. Remove the C-shaped locking clip by sliding it out from the tab on the quick-connect fitting.
2. Press the tab down onto the attachment (closing the gap between the collar and the attachment) and hold it in place.
3. While keeping the tab pressed down, gently pull the tube (or plug) in the opposite direction at the same time to release it.



How to insert the tube into a quick-connect fitting:

1. Ensure that the tube has a clean, square cut without any burrs.
2. Push the tube firmly into the QC connector, ensuring that it is positioned correctly (you will feel the tube "click" into place as you push it into the connector). The 1/4" tube is secured once it has travelled 3/5" (15 mm) into the connector. The 3/8" tube is secured once it has travelled 3/4" (19 mm) into the connector.
3. Replace the locking clips in the "C" position to secure the QC connector.

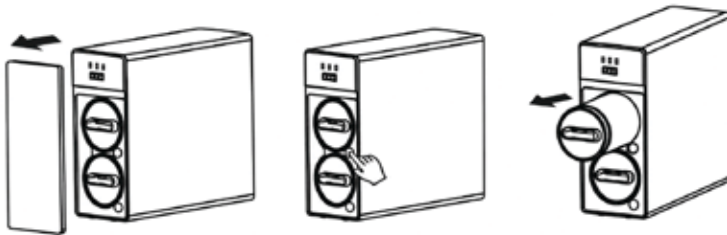


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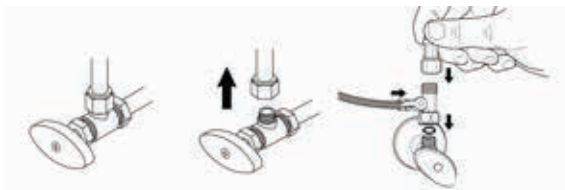
Installation of cartridges

1. Open the front panel and press the button for the corresponding cartridge; the cartridge will eject automatically.
2. Insert the appropriate cartridge into the machine and push it until you hear a click.
3. After installation, replace the cover on the machine.



Installation of the inlet water connection

1. Installation of the inlet water T-valve: clean the installation area, close the inlet water valve, remove the tap or angle valve, then connect the inlet water T-valve and finally connect to the original tap or angle valve. (Note: the screw thread connection should be sealed with tape or an O-ring to prevent leaks).
2. Connecting the water inlet port: connect one end of the PE pipe to the water inlet valve and the other end to the water inlet port of the equipment.



Locate the shut-off valve. Close the cold water shut-off valve located under the sink.

Warning: Ensure that you have turned off the water supply before beginning any installation.

Remove the original connection from the tap and the cold water shut-off valve under the sink. Connect the cold water supply and the water supply adapter valve.

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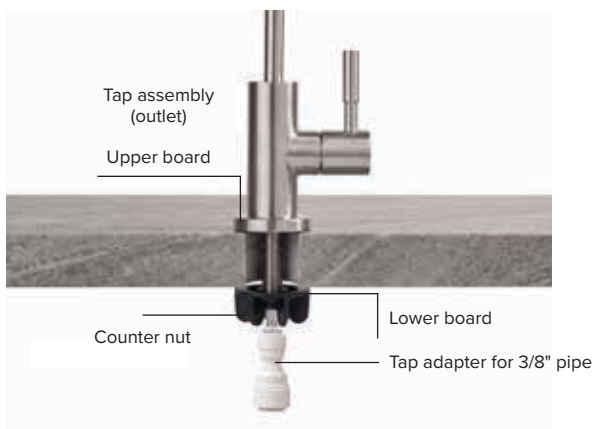
Tap installation

Fixing to the sink. Try to install the tap on the edge of the sink if possible, using one of the existing mounting holes. Remove the cover and ensure you have free access above and below.

If no additional holes are available, you will need to drill a suitable hole.

Maximum thickness of 2.9 cm. If you need to drill into the worktop, especially for granite, tiles or concrete surfaces, you may need a special drill bit for those materials or professional assistance.

Using a hammer and punch, mark the hole. Drill the hole with a drill bit up to 12 mm.



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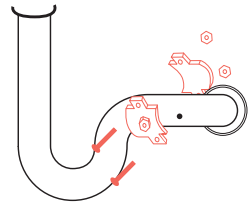
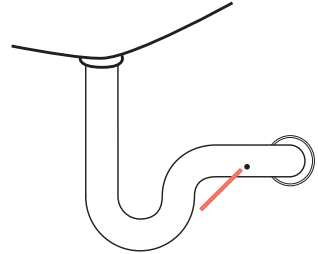
INSTALLATION & MAINTENANCE

Installation of the drainage collar: Standard drainage collar suitable for 40 mm PVC pipes.

1. It is advisable to install the drain collar after the sink siphon to prevent possible noise from the equipment rejecting.
2. Drill a hole approximately 6 mm in diameter in the drain pipe.
3. Position the drain collar, ensuring that the holes in the collar and the hole made correspond.
4. Tighten the 2 screws to secure the drain collar.

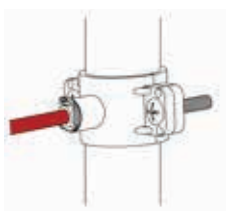
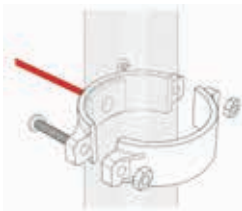


ATTENTION: NEVER INSTALL THE DRAINAGE BRACKET ON BENDS OR UNDER THE SIPHON!



Drill a 6 mm hole in the drain pipe with an electric drill.

Remove the backing and stick the adhesive onto the pipe, aligning the holes.



Assemble the drain valve according to the diagram below and tighten the bolts evenly with the Phillips screwdriver to allow the clamp to fit snugly around the pipe (do not overtighten). Once secured, insert the 1/4" polyethylene tube into the quick-connect fitting on the drain valve.

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INSTALLATION & MAINTENANCE

Purified water port connection: Connect the 1/4" quick connector to one side of the tap, cut the 1/4" PE tube to a suitable length, insert one side into the quick connector and connect the other side to the purified water port on the machine.

Drinking water port connection: Connect directly to the tap connection rod, cut the 3/8" PE tube to a suitable length, insert one end into the quick connector and connect the other end to the machine's drinking water port.

Drain port connection: Select a suitable length of 1/4" PE pipe to connect to the drain port on the equipment and connect the other end to the drain line. Secure the PE pipe to prevent it from falling.

Rinse the cartridge: Install all cartridges before rinsing them. Rinsing the PP+C cartridge: after completing the installation, open the purified water tap to rinse the PPC filter for about 10-20 minutes until the water is clean, then close the purified water tap. After completing the installation, open the purified water tap to rinse for about 10-20 minutes until the water is clear.



ATTENTION:

1. If no water comes out of the tap, check the electricity supply.
2. Rinse the filter cartridges according to the instructions for rinsing the cartridges before first use.

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INSTALLATION & MAINTENANCE

GENERAL INSTRUCTIONS

When using the equipment for the first time, open the tap and the water inlet valve. When water comes out of the tap, close it for 30 minutes and check for leaks. If there are no leaks, you can use the equipment normally. In normal user mode, keep the power connected, open and close the tap.

When using the equipment after a long period of inactivity, allow the equipment to produce water for 5 minutes before using the water again.

System flushing

System start-up and filter replacement

1. Washing/flushing the system: Open the water supply valve and the reverse osmosis tap, then connect the equipment and allow the system to run for 15-20 minutes to flush all fittings and new filters. Check for signs of leaks.
Warning: ensure that the water inlet valve under the sink is open and that the system is properly plugged into the power supply.
2. Enjoy purified water: After flushing the system, it will be ready for use. Turn on the tap and start enjoying the water.

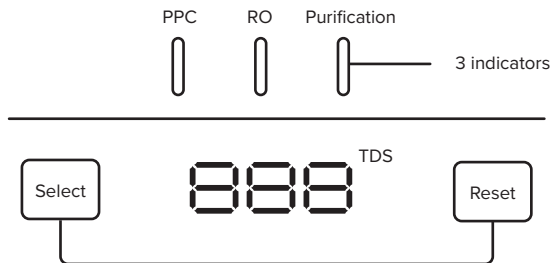
Note: The equipment will emit an operating noise (pressure pump) while in use (producing water). As soon as the equipment is switched off or put on standby, it will cease to emit noise.

Once the equipment has stopped producing water, the pump switches off, but for 2.5 minutes it performs a “hydraulic” membrane wash. After this time, the system stops completely. Perform the “Reset” protocol during start-up to reset the filters to zero.

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OPERATION

The machine is equipped with an LED display. When the power supply is connected, the machine emits a buzzing sound and switches to rinsing mode.



1. CLARIFY

Each time the power supply is connected, the equipment will automatically rinse for 30 seconds. If the machine is not used for more than 24 hours, it will automatically rinse for 20 seconds and the **Purification LED** will flash, without dispensing water from the tap.

Press the **Select** button and the machine will rinse for 30 seconds; press again to exit manual rinse mode.

2. PURIFY

Turn on the water tap and the unit will begin purifying; the inlet water solenoid valve and booster pump will start operating, which will be indicated on the front panel.

3. FAILURE

For continuous water production for more than 30 minutes, the equipment will enter maintenance mode: the inlet water solenoid valve, drain solenoid valve and booster pump will stop operating. Once the problem has been resolved, reconnect the power supply.

4. CARTRIDGE SERVICE LIFE

The cartridge's service life is indicated on the front panel; when the cartridge's service life expires, the corresponding indicator lights flash. Each time the pump is started, the alarm will sound 6 times.

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5. REPLACE THE CARTRIDGE

Press and hold the “Select” button for 3 seconds to enter the cartridge selection mode, then press “Select” again. Select the cartridge to be reset (the indicator flashes), then press the “Reset” button for 3 seconds; the cartridge life will be reset and it will automatically exit reset mode.

If no operation is performed within 10 seconds, the machine will automatically exit reset mode.

SPARE FILTER PART NUMBER			
Filter	Description	Recommended replacement	References
PPC	Sediment Cartridge	12 months	5252000008
RO	RO membrane	12 months	5252000009

The replacement time for the cartridge depends on the quality and usage of the local water. The above replacement time is provided for reference only.



ATTENTION:

1. Depending on the quality of the inlet water, replace the 1st stage cartridge as appropriate.
2. When the TDS of the water increases rapidly, it is necessary to change the RO membrane soon.
3. Replacing the cartridges:
 - Replace the cartridges regularly to maintain effective and efficient filtration.
 - Turn off the water supply, cut off the electricity supply, and open the tap until no more water comes out.
 - Remove the cover and set it aside. Remove and install the cartridges as described.

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OPERATION



ATTENTION: INSTALLATIONS AND MAINTENANCE

1. Replace the cartridge and ensure it is in the correct position.
2. The service life of the cartridge will vary depending on the area, water quality, season, and operating time. Replace it promptly according to actual usage.

Maintain the equipment:

- When cleaning the equipment, do not use soap, detergent or strong volatile solvents such as thinner, petrol and alcohol, as these will cause cracks and discolouration.
- Do not wash the equipment directly with water.
- Perform the “Reset” protocol during start-up to reset the filters to zero.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	PROCEDURE
Low water production	The pipe is bent.	Straighten the pipe.
	The water inlet valve is closed.	Open the water inlet tap.
	There is no water supply.	Check if water is entering the system.
	The filters are clogged.	Replace them.
	The water pressure is low.	Install a pressure pump.
	The water temp. is lower than required.	Increase the feed water temperature.
The device is not functioning	The connection to the power supply is faulty.	Check the electrical connections.
	The machine is in a state of water shortage.	Check the feed water. If the feed water is correct, reconnect the power supply.
	The power adapter is damaged.	Replace it or contact technical support.
	The machine has been in use for more than 20 minutes with the tap continuously open, and the equipment has shut down for safety reasons.	Unplug the equipment until the LEDs turn off, then plug it back in.
Unpleasant smell and taste of purified water	The equipment has been disconnected for a long time.	Rinse the machine's filter elements for 5 minutes. If this does not improve the situation, replace the activated carbon filter elements.
	Poor quality of incoming water.	Check the quality of the incoming water.
	The cartridge filters are worn out.	Replace the filters.
Abnormal sound	The power and voltage do not match.	Please contact technical support.
	The incoming water flow is too low.	Increase the water inlet flow.
	The adapter is damaged.	Please contact technical support.
	Pump error.	Please contact technical support.

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WARRANTY CONDITIONS

WARRANTY

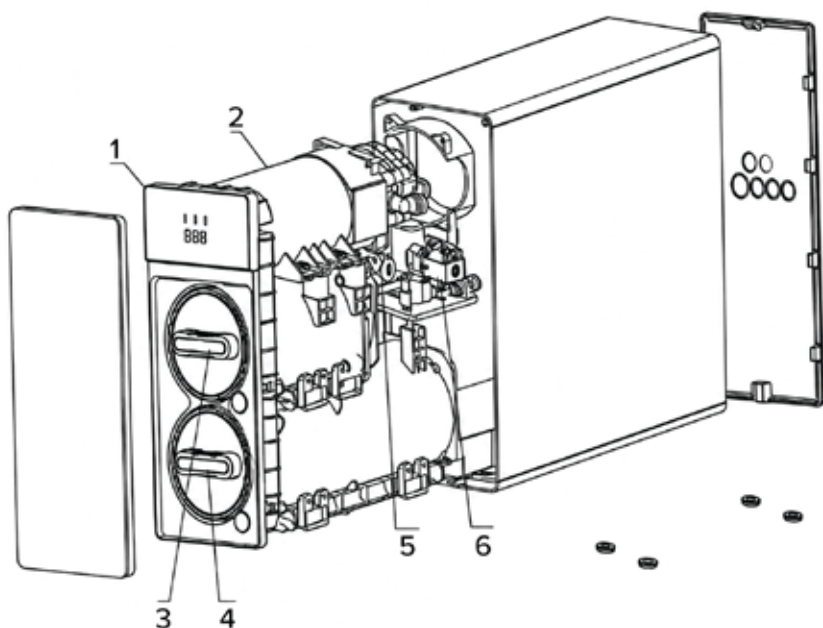
All our products come with a 3-year warranty in accordance with Warranty Law 7/2021, applicable from 1 January 2022. This warranty is valid from the date of delivery, provided that the delivery note and/or invoice is presented, as well as documentation confirming that the maintenance indicated has been carried out in a timely manner. The warranty does not cover the replacement of parts subject to natural wear and tear (membranes, cartridges and filter material), or due to lack of maintenance, impact or other non-conformities resulting from misuse of the equipment, incorrect installation or circumstances beyond the control of the equipment. Shipping and return costs associated with the warranty will be borne by the customer.

RETURNS

No returns will be accepted unless they have been previously authorised by our company and are accompanied by the purchase receipt and our RMA number. (Return number) Returns of discontinued materials or special products will not be accepted. Returns will not be accepted if the equipment or component is not in its original packaging, in which case the cost of the packaging will be deducted from the refund amount.

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SPARE PARTS



SPARE PARTS

1.	5252000011	Digital control panel
2.	5252000010	Booster pump
3.	5252000008	PPC Cartridge
4.	5252000009	RO membrane 1200GPD
5.	5252000012	Inlet solenoid valve
6.	5252000013	Outlet solenoid valve

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UPDATED AND TRANSLATED MANUAL



The instruction manual may be subject to updates and/or corrections. Scan the QR code to find the most up to date manual & translations.



INSTRUCTION MANUAL

REVERSE OSMOSIS 1200GPD

Enjoy pure, high-quality water straight from your tap