

Installation and operational manual

WATEX RO75GPD

REVERSE OSMOSIS SYSTEM (without pump)



Before use read the instruction manual carefully!

Introduction

Thank you for choosing our products and solutions for obtaining clean water!

Attention! Read the operating instructions before unpacking and starting the installation.

The device is intended for the preparation of drinking water. In the standard case, it is planned to install in the kitchen cabinet under the sink, because there is a water supply and sewerage connection. Water is used for drinking, beverages (coffee, tea, juices, ice, etc.) and cooking.

1. The water filter set includes:

The equipment set is made of 2 packages, which contain:

- Drinking water filter system housing,
- Filter elements
- Purified water tank
- Drinking water tap
- Key for mounting filter housings
- Water supply connection set - valve, three-piece, seals
- Sewerage connection set - clamp, pipes.
- Mounting screws
- Instructions for installation and use

2. Water filter technical parameters:

Dimensions for the filter system: length 420 x width 160 x height 467 mm

Dimensions for purified water tank: diameter 240 mm, height 350 mm

Water filter weight (with water): 10 kg

Working pressure: minimum 2.4 bar, maximum 4.0 bar

Water temperature: minimum 5 oC, maximum 38 oC

Air temperature: minimum +5 oC, maximum +50 oC

Minimum water requirements: Central water supply systems or deironed groundwater

Necessary connections: water supply and sewerage

Equipment capacity: from 7 liters / hour or from 290 liters / day

Purified water tank capacity: 5 liters

Membrane rinsing water ratio: clean / rinsing - 1/3

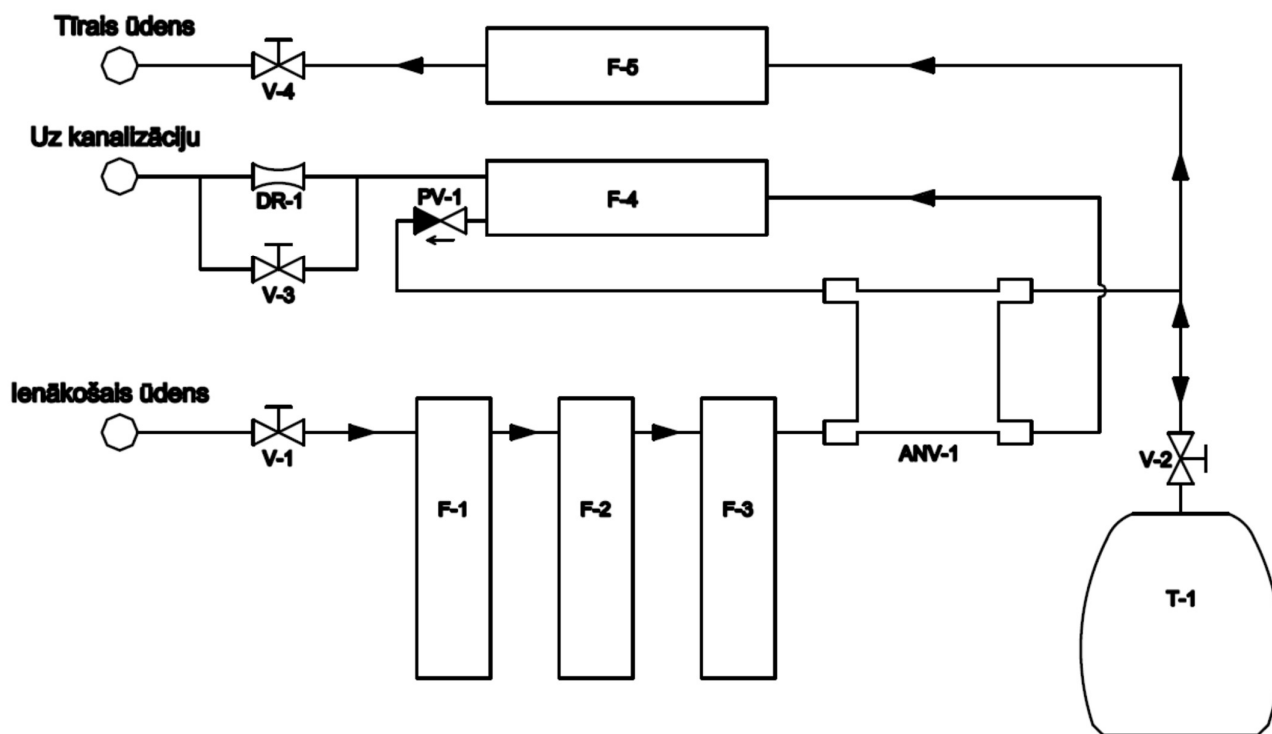
3. RO75GPD water filter operation description:

The WATEX RO75GPD drinking water filter is a 5-stage filtration system, including mechanical, activated carbon and reverse osmosis. Water is effectively treated from rust, scale, organic and organochlorine pollution, heavy metal compounds, nitrites, nitrates, ammonium, pesticides, etc. harmful impurities. The taste of the water is improved and the smell is eliminated. Water is also purified from bacteriological pollution - microorganisms, bacteria, viruses. The water after filtration has a low degree of mineralization. No chemical reagents are used in the drinking water filter, only different degrees of filtration and adsorption of activated carbon. Water after the filter is healthy for the human body and houseplants. Home appliances last longer - iron, coffee maker, kettle, etc. The unit is equipped with an automatic system shut-off valve that closes the leak to the sewer after filling the water tank. This allows for economical use of water resources. The reverse osmosis membrane can be flushed manually, which ensures a longer service life compared to traditional systems.

Drinking water filter contains 5 purification stages:

- 1. Polypropylene element (5 microns)** - mechanically filters sediment, rust, turbidity, suspended particles and other dirt.
- 2. Carbon cartridge** - cleans of free chlorine, flavors, odors, paints, organic and organochlorine substances.
- 3. Polypropylene element (1 micron)** - protects the RO membrane from activated carbon dust and prolongs its service life.
- 4. RO membrane (0.0001 microns)** - drinking water is purified from scale, bacteria, viruses, organic matter, colloids, pesticides, radioactive particles, microbes, heavy metals, etc.
- 5. Post carbon filter element (Post carbon filter)** - “polishes” the prepared drinking water.

4. Technological scheme



Abbreviations

V-1 Inlet water valve	F-4 Reverse osmosis membrane
V-2 Clean water tank tank valve	F-5 Activated Carbon (Coconut) Cartridge
V-3 RO membrane flush valve (normally closed)	PV-1 Check valve
V-4 Clean water valve	ANV Automatic shut-off valve
F-1 Mechanical filter cartridge (5 microns)	DR-1 Throttle
F-2 Activated Carbon Cartridge	T-1 Clean water tank
F-3 Mechanical filter cartridge (1 microns)	

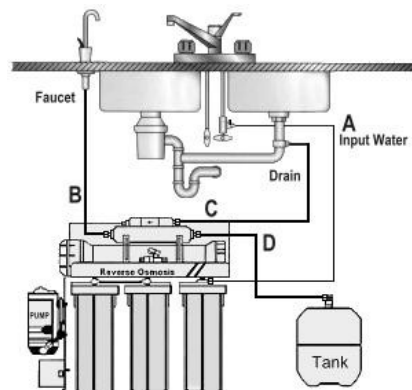
5. Technical requirements for installation and use.

Before installing the appliance, make sure that there is enough space to place the appliance and that you can connect the water tap.

The appliance does not require an electrical connection.

The tank can also be installed lying on its side, this will not affect the operation of the system. If there is not enough space under the sink, the tank can be placed in the adjacent kitchen cabinet.

5.1. Scheme for installation under the kitchen sinks:



5.2. Inlet water connection installation:

*****Make sure, that your system is connected to the cold water supply and that the Feed water valve is closed*****

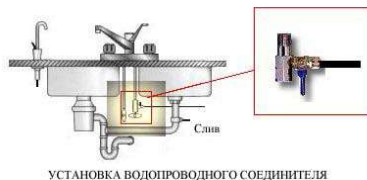
1. A standard connector (feed water connector + feed water valve) is included in the water filter set
 - The standard connector included in the kit consists of two parts;
 - Feed water connector cover 1/2 "x cover 1/2" NPT (L: 36m / m).
 - Feed water valve 1/4 "MIP x 1/4" OD 1/4 "
1. Assemble the water connector by inserting the feed water valve. Screw in the valve on the side of the water connector using 3-4 Teflon tape threads.
2. Disconnect the water supply pipe from the cold water tap under the sink. Carefully attach and tighten the folding connector so that it does not move or bend any pipe or water pipe.



Feed water connector



Feed water valve



5.3. Water filter faucet installation at the faucet.

Most sinks have an extra hole for installing an additional faucet or soap dispenser. If your sink does not have an extra hole, follow these steps:

1. Using a VSR drill with a carbide grinding tip, carefully grind the hole in a layer of porcelain or enamel so that a drill with a diameter of 13 mm can fit into it freely. The entire layer of enamel surface to the metal base must be removed.
2. Using a drill with a diameter of 7 mm, drill a hole in the base material. Drill slowly and carefully, especially when the drill comes out of metal. If necessary, one or two drops of oil can be added to the hole.
3. Repeat step 2 using a drill with a diameter of 13mm. Place the tap in the hole provided and, holding it with an adjustable wrench or by hand, tighten the 9/16 "screw.



5.4. Drain clamp installation

1. Place as far away from the waste bin as possible.
2. The clamp must be installed above the siphon (hydraulic switch) on the vertical or horizontal section of the drain pipe.
3. Drill a 7mm hole in the drain pipe according to points 1 and 2 above.
4. Assemble the clamp so that the holes in the drain and clamp coincide (a drill can be inserted in the holes for this purpose)
5. Carefully tighten both screws to the hugs. Do not tighten too tightly.



5.5. Clean water tank installation

1. Wrap 4-5 layers of Teflon tape around the metal threads of the tank.
2. Manually attach the plastic shut-off valve to the tank (tightly but so as not to tear the thread)
3. The container supplied by the manufacturer must have an internal air pressure of 0.7 to 0.9 atmospheres, measured in the unfilled state.

5.6. Water filter placement and fixing under the sink.

1. Mark the desired screw locations. Use the two mounting bracket holes on the back of the cleaning unit.
2. Screw in the screw screws in the marked positions so that the screw heads are slightly out.
3. Touch the cleaning unit on these screws.



5.7. Reverse Osmosis membrane installation

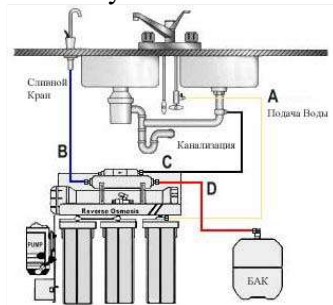
*****Original packaging allows to avoid damaging the membrane during transportation.*****

1. Remove the membrane housing cover.
2. Install the membrane by carefully inserting its end cap into the appropriate socket so that the membrane is fully inserted into the housing and the rubber 'band' is on the threaded side of the screw cap.

3. Screw on the membrane housing cover (make sure that the black "O" ring does not slip)

5.8. Water pipe connecting

Use scissors to cut four separate tubes of the required length from the white 7mm tube included in the accessory kit.



A. The first water tube has to be connected to the Feed water valve together with 5 micron filter - first filter on the left.

B. The second water tube must be connected from the last "Post-filter" cartridge to the drinking water faucet

C. With the third water tube connect the Drain Clamp together with the water flow restrictor

D. Use the fourth tube to connect the water storage tank to the "T" connector on the right end of the last carbon filter.

5.9. First start-up procedure

1. When everything is connected, open the feed water valve to detect possible leaks.
2. Check that the water tank valve is closed "OFF". Open the drinking water faucet
3. After a few minutes (up to 15 minutes) the water will start to drip from the tap.
4. Let the water drip for 30 minutes. This makes it possible to flush the carbon filter at the beginning of its operation.
5. After initial rinsing, open the clean water tank valve and close the drinking water faucet.
6. Now the tank will fill (usually within 2-3 hours). After the tank is full, open the drinking water faucet and drain all the water from the tank into the sewer.

6. Problems and solutions

Problem	Reason	Solution
Water dripping	Damaged seal or incorrectly tightened connection	Change the seal or tightened the connection with Teflon tape
Reduced clean water flow Samazinājusies tīrā ūdens plūsma	Low pressure	Check the pressure
	Dirty or old cartridges	Check the cartridges, if necessary change
	Closed feed water valve V-1	Open Feed water valve V-1
Water taste has changed	Activated carbon resource has ended	Change activated carbon cartridges F-2 and F-5
	Damaged membrane	Change the membrane V-4
	Water has become stale, because of no consumption	Empty the clean water tank and clean/ disinfect it.
Continuesly the water is flowing to the drain.	Damaged automatic shut off valve	Change ANV-1

If these suggestions do not help, call technical support at +371 67381989

7. Warranty

The warranty card is issued when purchasing the product. With a warranty card you can repair the product free of charge during the specified warranty period.

All products offered in the WATEX.EU online store are guaranteed by EU legislation. If a manufacturing defect is found in the product during the warranty period, free warranty repairs are performed in accordance with the manufacturer's instructions. In this case, you can contact the service indicated on the warranty card. When contacting the warranty service, it is necessary to present a warranty card and a document confirming the purchase of the product. To avoid misunderstandings, please read the product instructions carefully.

Warranty obligations are canceled in the following cases:

- if the product has been used without following the warnings in the instructions for use;
- if traces of unqualified repairs are visible on the product;
- if changes have been made to the design or scheme of the product;
- if the serial number of the product has been changed, deleted or cannot be determined.

Defects that void the warranty:

- damage caused by foreign bodies, substances, liquids, insects entering the product;
- damage caused by natural disasters, fire, domestic factors, accidental external factors (rapid voltage changes in the electrical network, etc.), as well as accidents;
- damage caused by the use of non-standard or low-quality consumables, spare parts, components, accessories, various types of media.
- If third-party cartridges or reverse osmosis membranes are used.

The warranty does not cover:

on consumables, sets of accessories and power supplies, if such replacement is provided for by the construction and is not related to the dismantling of the goods.

8. Water filter maintenance

Frequency of element changes

The frequency of element changes depends on the quality of incoming water and the frequency of consumption, which may differ in the kitchen and office of a residential house.

The water consumption in the office is much higher, so the frequency of filter element changes is also.

Private house kitchen

Mechanical cartridges 5 microns un 1 microns	Activated carbon cartridge	RO membrane	Post filtrs – activated carbon
F-1 un F-3	F-2	F-4	F-5
After 6-12 months	After 6-12 months	After 2-3 years	After 6-12 months

9. Water filter cartridge replacement instructions.

1. Close the incoming water valve V-1.
2. Close the water tank valves V-2.
3. Open the clean water valve at the V-4 sink and release all pressure.
4. Use a filter wrench to unscrew the filter housing.
5. Remove the old cartridge, assess the condition, and install the new cartridge.
6. Screw and tighten the filter housing with a plastic key. Pay close attention to the correct positioning of the seals. Otherwise, water may leak.
7. Open the incoming water valves V-1.
8. Wait until clean water flow appears, then close valve V-4.
9. Open the water tank valves V-2.

10. Preventive rinsing of the membrane

To prolong the life of the membrane and maintain maximum flow, it is recommended to rinse the membrane regularly.

Once a month, open the Drain Valves (V-3) for 10 minutes and close.

A rapid flow of water will allow partial washing of the sediment formed on the surface of the membrane.

11. Additional equipment options

Additionally, you can purchase refill cartridges separately:

1. A pH raising cartridge that raises the pH of the water to 8.5.
2. Mineralization cartridge for water enrichment with minerals.

WARRANTY TERMS AND CONDITIONS

The warranty period specified by the manufacturer for the equipment you purchased is 24 (twenty-four) months.

The equipment must undergo regular maintenance at least once a year.

Warranty obligations are provided in accordance with the manufacturer's warranty terms stated in the product's technical manual and the supplier's conditions outlined below.

The supplier provides a technical manual with each product – in the original language, unless otherwise requested. The buyer is responsible for adhering to the technical specifications of the product and for its proper use.

Warranty obligations apply only in cases where the product has defects caused by the manufacturer and the user has used the product in accordance with the instructions specified in the technical manual. In such cases, defects are remedied at the supplier's expense, i.e., by SIA WATEX.

Warranty obligations do **not** apply in the following cases:

1. The product is mechanically damaged or the manufacturer's labels are tampered with;
2. The product is kept in unsuitable conditions;
3. User rights have been violated, e.g., the product has been disassembled or repaired by the user;
4. The product is damaged as a result of force majeure: such conditions include circumstances beyond the control of the buyer and supplier, which they could not foresee and cannot prevent through reasonable actions (these include fires, floods, earthquakes, acts of war, monetary reforms, etc.);
5. If the product was not installed by the supplier, then during the warranty period the defective product must be delivered by the buyer to the SIA WATEX office; if the product was delivered, installed, adjusted, and commissioned by an official representative of SIA WATEX, the warranty is provided on-site at the customer's location.

For warranty-related matters, please contact the responsible persons at SIA WATEX.