

# Operation Manual

## NW-4-400ROL 4-stage Reverse Osmosis

64401



Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps, and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.

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## Introduction

Thank you for purchasing this quality product. **To minimise the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Keep these operation instructions safe.

## Safety instructions

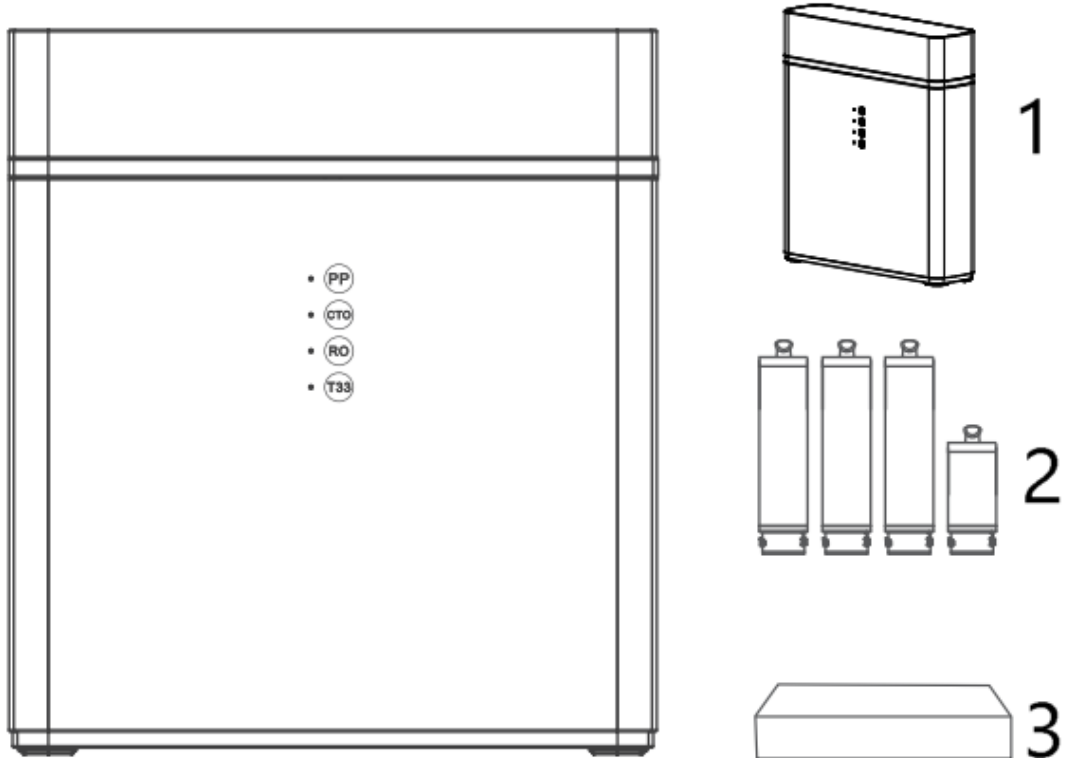
- Clean and replace the filter cartridges regularly.
- Do not disassemble parts indiscriminately; this can lead to leaks or damage.
- Do not use power supply units with an unsuitable rated voltage.
- Disconnect the mains plug and close the water tap before storing the appliance for a longer period.
- Do not store or use the appliance at an ambient temperature of 0 °C or below.
- Take care when installing or removing the cartridge or moving the appliance.

## Other instructions

- When not in use, interrupt the water supply and close the ball valve to prevent damage from water hammer. Uncontrolled pressure surges can lead to leaks and damage to the filter housing. We accept no liability for damage caused by pressure surges.
- In the event of problems, disconnect the appliance from the power and water supply and contact a specialist. Replacing the filters may solve the problem.
- The appliance vibrates slightly during the filtering process.
- It is recommended that the cartridges are replaced by a specialist.
- It is normal to hear vibrations when the system is producing water.

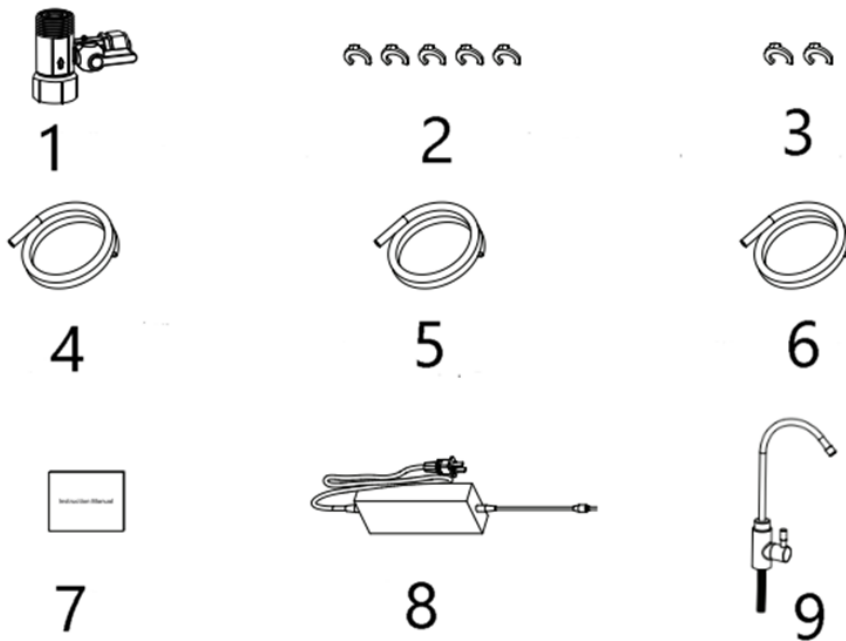
**Note!** A water hammer is a pressure surge or pressure wave that occurs when moving water is forced to suddenly appear or change direction. when a house occupant suddenly closes a valve, a pressure wave spreads through the pipework of the building.

## Product and accessories



No	Name
1	Filter system
2	Four filter cartridges consisting of: PP sediment filter (PP), activated carbon filter (CTO), reverse osmosis membrane (RO) and activated carbon post-filter (T-33)
3	Accessory box consisting of: Includes 3-way ball valve, faucet, adapter, and operating instructions, 1.5-m red 1/4" pipe, 1.5-m blue 1/4" pipe, 1.5-m 3/8" white pipe, 5 x 1/4" pipe clamps, 2 x 3/8" pipe clamps.

## Drawings illustrating contents of accessories box



Nº	Name	Nº	Name
1	3-way valve	6	3/8" pipe (1.5 m, white)
2	5 × 1/4" pipe clamps	7	Instruction manual
3	2 × 3/8" pipe clamps	8	Adapter
4	1/4" pipe (1.5 m, red)	9	Faucet
5	1/4" pipe (1.5 m, blue)		

**Note:** might vary depending on disposability.

### Installation instructions

#### *Installing the diverter valve*

1. Close the feed water valve.
2. Wrap sealing tape around the thread of the diverter valve.
3. Connect the diverter valve to the feed water valve and the hose (Fig. 1)
4. Insert the 3/8" pipe into the diverter valve (Fig. 2).
5. Open the feed water valve and the faucet to check whether the connection is leaking or not.

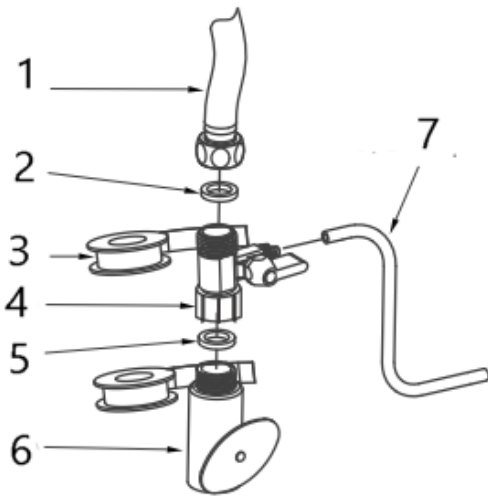


Fig. 1

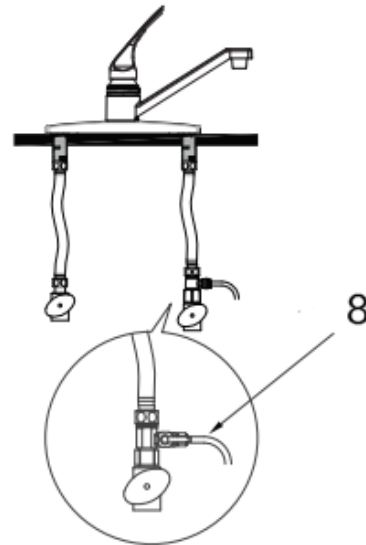


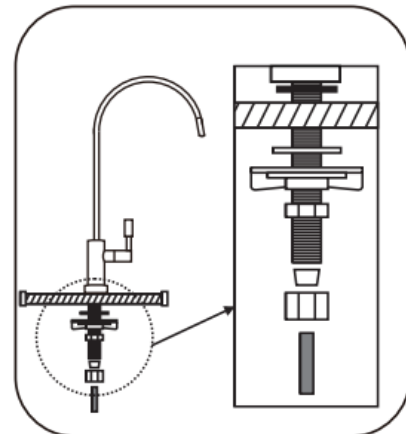
Fig. 2

Nº	Name	Nº	Name
1	Hose	5	O-ring
2	O-ring	6	Feed water valve
3	Sealing tape	7	3/8" pipe
4	Diverter valve	8	3/8" pipe

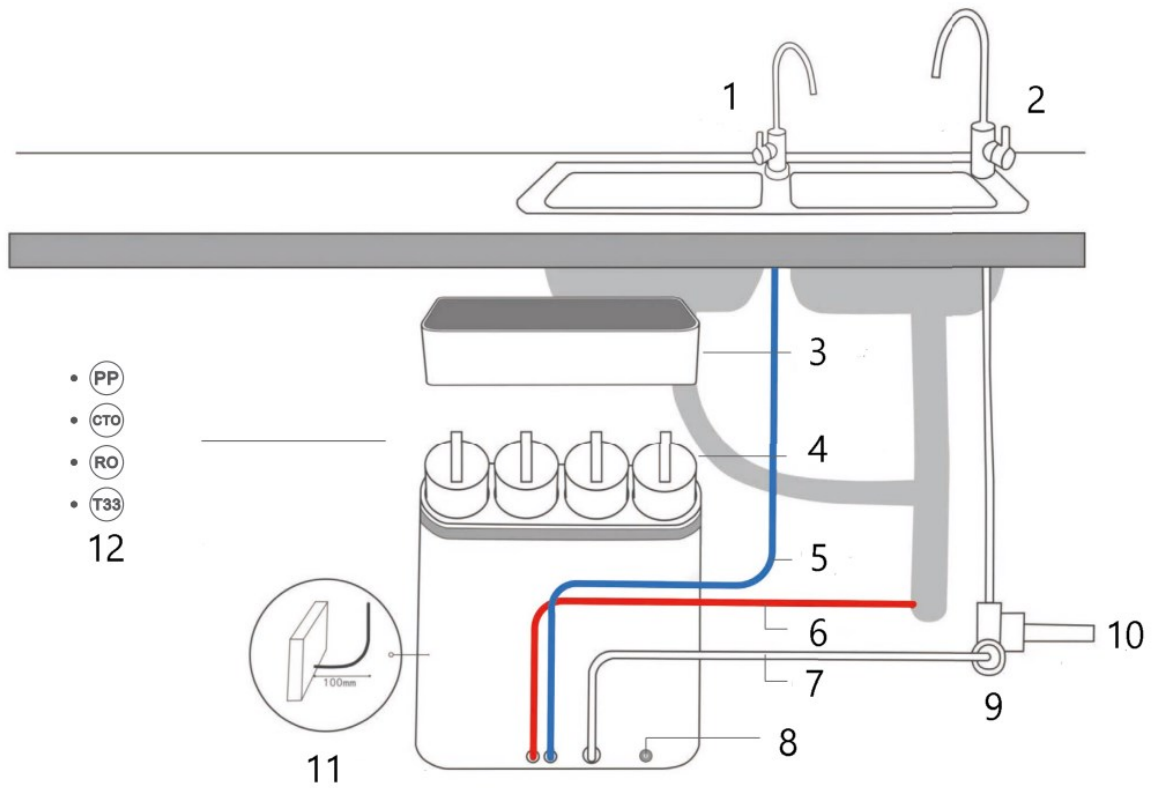
*Mounting the water faucet*

- Chose a suitable spot near your washbasin to install the water faucet.
- Drill a 12-mm diameter hole into the worktop.
- Install the washers, plates, gaskets, and nuts in the order shown and tighten them on the worktop.
- Fix the reverse-osmosis water line (1/4", blue) to the underside of the water faucet, then connect the line to the device.

**Attention!** Make sure that the lines have been connected properly.



Connection diagram



Nº	Name/description	Nº	Name/description
1	Reverse osmosis faucet	7	Inlet pipe
2	Faucet	8	Power
3	Dust cover	9	3-way ball valve
4	4 filter inserts	10	Pipe for tap water
5	Pure water pipe	11	Leave at least 100 mm space on the back of the products to bend the pipes.
6	Waste water pipe	12	Each filter cartridge is provided with a service life indicator

## Replacing the cartridge and reminder function

### Installing the filter cartridges

1. Before installing the filter cartridges, please remove the protective film.
2. Open the top plastic cover of the appliance (Figure 1)
3. Hold the handle of the filter cartridges and turn them 90 degrees clockwise to insert them into the housing.

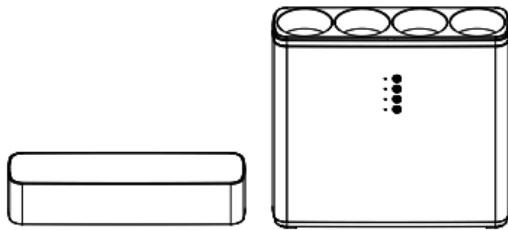


Fig. 1

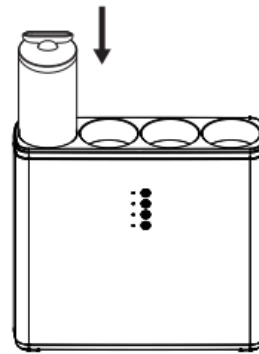


Fig. 2

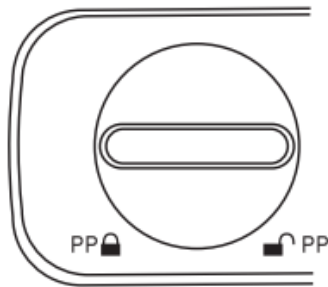


Fig. 3

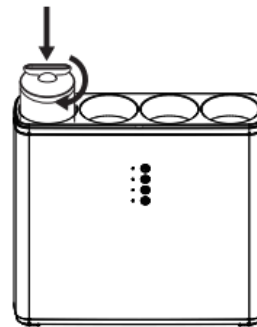


Fig. 4

4. Repeat the above steps to insert the remaining cartridges (Figure 5).
5. As a final step, attach the plastic cover (Figure 6).

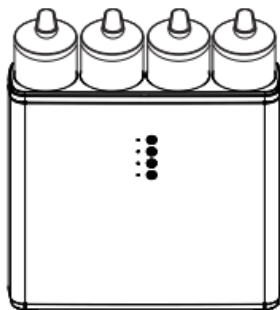


Fig. 5

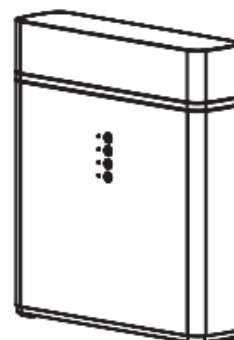


Fig. 6



## Service life of the filter cartridge

### Display

- The left indicator light of the PP button shows the service life of the PP filter.
- The left indicator light of the CTO button shows the service life of the CTO filter.
- The left indicator light of the RO button (reverse osmosis) indicates the service life of the RO filter.
- The left indicator light of the T33 button shows the service life of the T-33 filter.

The indicator light shows the service life of the individual filter cartridges.

- Blue light: normal condition
- Purple light: service life is about to expire
- Red light: service life has expired – please replace the filter cartridge

### Signal tone

- If a filter-cartridge indicator light lights up purple after switching on the faucet, the device beeps for 3 s to remind the user to change the filter cartridge in good time.
- If the filter cartridge indicator lights up red, the device beeps for 5 s after switching on the faucet to remind the user to change the filter cartridge as soon as possible.

### Reset filter life

- There are 4 buttons on the front. These are used to reset the service life of the filter cartridges.
- Press the PP and T-33 buttons simultaneously for at least 3 s to put the system into reset mode. In the meantime, a short beep will sound, and the 4 service life indicators will start to flash.
- In reset mode, press the filter cartridge that needs to be reset for more than 5 s and the service life of this cartridge will be reset. A long beep sounds and ends with 5 short beeps, indicating that the reset is complete. The indicator light will turn blue.
- Repeat the last step if another filter needs to be reset.
- If no button is pressed for 10 s, the system automatically exits reset mode.

### Recommended replacement intervals for cartridges

Stages	Filter cartridges	Function	Service life (guide value) (months)
1 <sup>st</sup> stage	PP sediment filter	Removes larger suspended particles from the water.	3–6
2 <sup>nd</sup> stage	CTO activated-carbon filter	Effectively remove chlorine, bind colour and odours from the water to extend the service life of the reverse-osmosis membrane.	3–6
3 <sup>rd</sup> stage	Reverse-osmosis membrane	Filters the finest pollutants from the water and allows only pure water to pass through.	12–24
4 <sup>th</sup> stage	Activate-carbon post-filter	Purifies the water again and ensures a good flavour.	3–6

The service life of the filter cartridge gradually expires as soon as the appliance is connected to the mains. After approx. 20 % of the service life, the LED indicator remains lit and an alarm sounds each time the appliance is used.

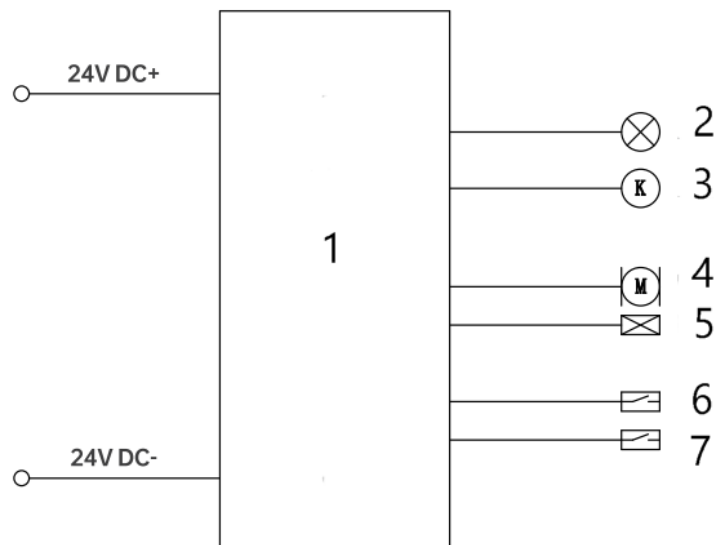
## Process chart of water treatment

Nº	Name	Nº	Name
1	Feed water	9	Check valve
2	3-way ball valve	10	High pressure switch
3	Tap water tap	11	Pure water
4	Low pressure switch	12	Reverse osmosis faucet
5	Feed water solenoid valve	13	T-33 filter
6	Booster pump	14	Reverse osmosis filter
7	Flow limiting valve	15	CTO filter
8	Waste water	16	PP filter

## Technical data

<b>Feed water quality</b>	Municipal tap water
<b>Power consumption (W)</b>	65
<b>Total rated power for purified water (ℓ)</b>	2000
<b>Temperature of the feed water (°C)</b>	5–38
<b>Operating pressure (bar)</b>	4
<b>Max. Pressure (bar)</b>	7

## Wiring chart



Nº	Name	Nº	Name
1	Electrical control board	5	Inlet water solenoid valve
2	Indicator light for the service life of the filter cartridge	6	Low pressure switch
3	Button for resetting the service life of the filter cartridge	7	High pressure switch
4	Booster pump		

## Troubleshooting

Problem	Possible cause	Suggested solution
Water pump out of order, system does not work	Insufficient feed water pressure	Increase feed water pressure.
	No power or power failure	Switch on.
	High pressure switch defective	Replace high-pressure switch.
	Pump blocked, adapter fuse blown	Replace adapter and repair water pump.
Water pump is running, but system is not working	Reverse osmosis membrane clogged	Replace reverse osmosis membrane.
	Pressure loss of the water pump	Repair the water pump.
Constantly flowing water when machine is in standby	Solenoid valve for water inlet damaged	Replace feed water solenoid valve.
Cannot stop working when the pressure tank is full or is started repeatedly	High pressure switch is damaged	Repair or replace high-pressure switch.
	Check valve damaged	Replace check valve.

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EU guidelines regarding the disposal of scrap electric appliances (WEEE, 2012/19/EU) were implemented in the law related to electrical and electronic equipment and appliances.

All WiITec electric devices that fall under the WEEE regulations are labelled with the crossed-out wheeled waste bin logo. This logo indicates that this electric equipment must not be disposed with the domestic waste.

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