

INSTALLATION AND COMMISSIONING GUIDE



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SECTION ONE

MAINS COLD WATER CONNECTION

Note: All fittings are WRAS approved. Interconnections with the RODI+™ are all located at the back of the system. This ensures pipes are out of sight and neatly located away from the front of the cupboard.

Step #1

Install a T into the mains cold water supply, this will be the feed water to the purifier. Isolate T with a 1/2" lever ball valve or equivalent.

Step #2

Use the Fluidfix 1/2 x 1/4" reducer to convert the feed pipe to 1/4". Insert a length of the 1/4" WRAS approved pipe included in the installation kit. Connect the feed to the inline filter screen and check valve, and then to the back of RODI+™ system where you will find a 3/8" x 1/4" stem adaptor. An additional isolator is included and this should be installed just before the inlet to the RODI+™ as an additional, easy to access isolator.

SECTION TWO

DRAINAGE CONNECTION

Included in the installation kit is a drain-off saddle clamp with integrated check valve, elbow and a PureH2O Type AA (air gap) riser. The drain out kit has a cutting device that enables you to cut the correct size hole into the waste. The Type AA riser connects onto the drain-off and must be orientated to stand upright to form an air gap attachment for the 1/4" drain and overflow from the RO unit.

Step #1

Locate a suitable position above the water trap onto which the drain device should be located. Attach the saddle clamp and fix in place using the nuts and bolts in the pack. Do not cut the hole at this stage.

Step #2

Add the PureH2O AA air gap riser using the elbow to direct it into a vertical position. It's also acceptable to fit the elbow first on the horizontal axis with the check valve on the vertical axis and the AA air gap above. Once a fit has been achieved, remove attachments and fix the saddle firmly to the pipe with O-ring in place and use the cutting tool to penetrate the waste pipe. You can now refit the attachments. The air gap riser has 3 stems, 2 of which are 1/4". These connect to the Drain outlet elbow on the back of the RODI+™.

Note

For the Type AA air gap device to work (without overflowing) there must be sufficient drop in the waste pipe to enable water to run freely into the drain with minimal head. Always fit the device at the highest point above the water trap.

If sufficient head cannot be produced to expel the water from the AA air gap drain-off device it will be necessary to connect the drain directly using the in-line check valve on the drain-off and reducing to 1/4" and then installing a double 1/4" check valve into the pipe feeding out from the RODI+™.

* Compliant with UK Water Regulations

SECTION THREE POWER

The RODI+™ requires a 24VAC transformer (2amp). Simply plug in the transformer to a mains socket and the 24VAC connection will marry up with the power inlet at the back of the RODI+™. Do not power up at this stage.

SECTION FOUR INSTALLING THE FAUCET

RODI+™ comes with our standard faucet (alternatively it can be installed with Quatreau Touch™ or Quatreau SmartTap™).

Installing the standard faucet

Step #1

Decide upon the position you wish to install your faucet. Using a 12-15mm drill bit create the penetration for the faucet.

Step #2

When installing the faucet ensure you use the washers in the correct sequence. Put the base plate on the faucet, smooth side facing up, then the thin black washer. Insert into the work surface then attach the wing nut underneath to secure the tap firmly to the worksurface.

Step #3

Using the 1/4" straight adaptor connect a length of 1/4" PE pipe to the base of the faucet and the other end to the back of the RODI+™ marked 'PureH2O outlet'.

SECTION FIVE INSTALLING THE RO PRESSURE TANK

Your system comes with a WRAS approved pressurised storage vessel. When empty the tank must be inflated to 10psi using a foot / bicycle pump. You can check the pressure using a standard digital tyre gauge.

Using the tank adaptor in the installation kit carefully attach to tank (using PTFE tape) and be careful not to over tighten. The tank has one inlet/outlet that connects to the tank port on the back of the RODI+™ system.

Before it is connected you must sanitise the tank. To do this take a 1/4" length of PE pipe from the installation kit and connect to the tank then into the clear sanitising filter housing in-line and then into the mains feed. Add 10ml Milton sterilising fluid. Now turn the mains water supply on and run water into the tank for 1 minute. Then turn the mains supply off and the tank adaptor. Disconnect the in-line filter and empty into the sink. Now reconnect the tank to the RODI+™ tank outlet and the mains supply to the mains inlet.

Note

Note that the tank will feed back into the RODI+™ system through a post filter and back out to the port feeding the faucet. The tank does not connect directly to the faucet in the way older designs did.

SECTION SIX

COMMISSIONING THE RODI+™

Check #1

Check that the mains cold water supply is connected through the in-line strainer and check valve and turn on and observe for any drips between the feed and the RODI+™

Check #2

Check that the drain outlet (white 1/4" stem) found on back left back side of the RODI+™ is connected to the 1/4" stem that rise from the top of the drain-off Type AA air gap stem.

Check #3

Check that the faucet has been attached to the back of the RODI+™ and that the lever is off.

Check #4

Check that the tank isolator is open and that the connections have been made to the back of the RODI+™ and that there are no drips. If the faucet has been left open you will see water running to the sink. Close the faucet.

NOW APPLY POWER

The system will now start producing purified water and will fill the tank at the rate indicated by the model (5, 10 or 20 litres/hr). You will hear water running to the drain - this is normal. The speed of production will be directly influenced by the mains water pressure and water temperature.

The RODI+™ storage tank exerts back pressure that increases as the tank fills up. At 30psi the internal pressure switch will deactivate the production, turning the inlet solenoid off. Drain water will stop once pressure drops across the membrane.

Step #5

Membrane conditioning

Under normal water pressure of 40psi the storage tank will fill within 30 minutes*. The higher the mains water pressure, the quicker the tank fills. Membranes are very efficient and have been selected specifically to achieve the fastest fill rate.

RODI+5™ models will fill in approx. 1 hour

RODI+10™ models will fill in approx. 30 minutes.

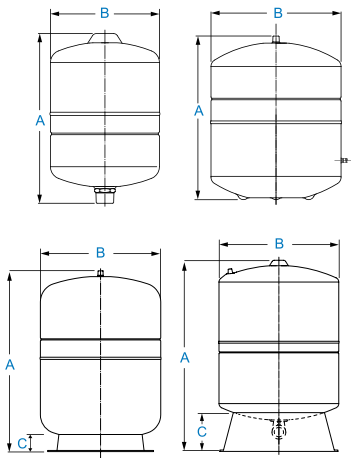
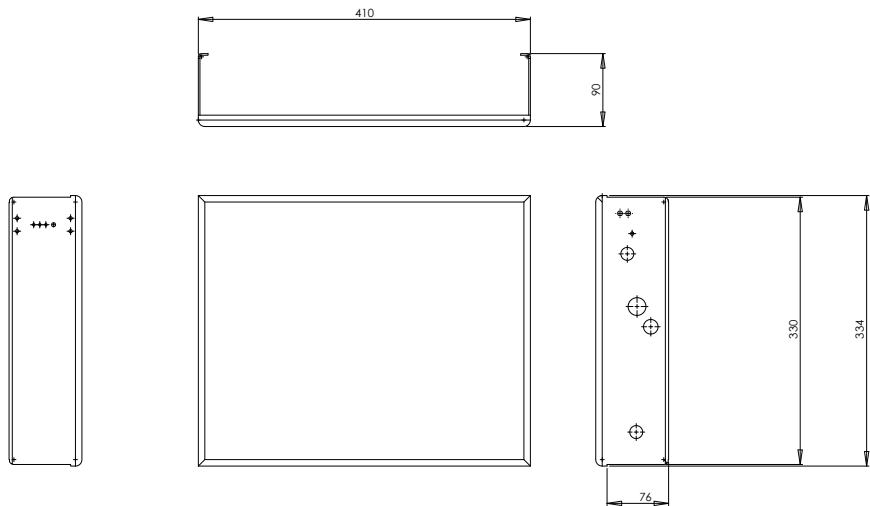
Depending upon inlet pressure it may be necessary to install an external booster pump. Note that the fuses and transformer must be uprated if a booster pump is installed.

After 15 minutes of production run off any water produced to drain to remove any sanitisation fluid in the tank. To do this simply open the PureH2O™ faucet tap and run until you empty the tank. Turn the tap off and allow the system to refill.

The RO storage tank holds approximately 4-5 litres in storage, sufficient for most cooking and drinking purposes throughout the day. Systems start to refill as the tank drops in volume to 20psi and turn off at 30psi. For higher usage or when connecting to Quatreau Touch™ or Quatreau SmartTap™ this should be pre-set to 50psi.

RODI+™

DIMENSIONS



STORAGE TANKS	A	B	C
4 litres	24.5 cm	16.2 cm	n/a
8 litres	29.7 cm	20.2 cm	n/a
12 litres	34.9 cm	23 cm	n/a
18 litres	35.1 cm	27.9 cm	n/a
35 litres	47.8 cm	31.8 cm	4.5 cm
60 litres	57.5 cm	38.9 cm	10 cm
100 litres	80.4 cm	43.0 cm	12.9 cm

IMPORTANT INFORMATION

TECHNICAL DETAIL	RODI+™-5	RODI+™-10	
POWER REQUIREMENTS	13 amp plug socket	13 amp plug socket	
VOLTAGE			
WATTAGE			
FILL TIME	Approx. one hour	Approx. 30 mins.	
CAPACITY			
MAX WORKING PRESSURE			

INSTALLATION DETAIL	BY AUTHORISED PUREH2O TECHNICIAN ONLY
INSTALLATION DATE	
INSTALLATION NOTES	
CONTACT	help@pureh2o.co.uk www.pureh2o.co.uk