

INTRO

SPACE SAVER REVERSE OSMOSIS PURIFIER



OWNER'S MANUAL

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SECTION 1.0
TOOLS



Variable speed drill



Drill bit
1/4" for the waste line
1" for the faucet hole



Adjustable wrench
and Pliers



Screwdriver



Towel



Torch

SECTION 2.0
PRODUCT SPECIFICATIONS

MODEL: IntRO™	FLOW RATE: 0.417 GPM/600 gallons per day
REPLACEMENT FILTER: Stage 1 GAC and RO	FEED WATER REQUIREMENT: Municipal Tap water
FEED WATER TEMPERATURE: 41-100°F/5-38°C	SYSTEM SIZE: 450mm x 160mm x 378mm
FEED WATER PRESSURE: 14.5-58 PSI / 0.1-0.4 MPa	NET WEIGHT: 9.5kg
MAX WORKING PRESSURE: 100 PSI	GROSS WEIGHT: 12kg

NOTE: In order for the filtration system to reach optimum performance it needs to be rinsed after professional installation.

SECTION 3.0
PARTS LIST



System housing x 1



Stage 1:
Activated
carbon x 1



Stage 2:
RO x 1



Faucet x 1



Feed water adapter x 1
and 3/8" Inlet water
tubing (blue) 1.5m



1/4" Pure water
tubing (white) 1.5m



1/4" Waste water
tubing (red) 1.5m



Lock clips x 6



Teflon tape x 1



1/2 FIP to 3/8
Compression x 1



3/8 Compression
to 1/2 FIP x 1



Drain saddle x 1



Tubing cutter x 1



Power adapter



Quick connect
tubing release tool x 1



Quick connect
fitting x 1

SECTION 4.0

CONNECTING AND REMOVING PIPES

CONNECTING THE PE PIPE TO THE CONNECTOR

1. Insert the PE tube.
2. Gently pull the O-ring on the connector to leave a gap.
3. Insert the Lock clip to complete the installation.



REMOVING THE PE PIPE FROM THE CONNECTOR

1. Pull out the Lock clip.
2. Use the quick connect tubing release tool to press the O-ring on the connector (Note: in order to protect the safety of your fingers/nails, please use the Use the quick connect tubing release tool to remove the PE pipe).
3. Pull out the PE tube.



SECTION 5.0

PRODUCT DRAWING



KEY

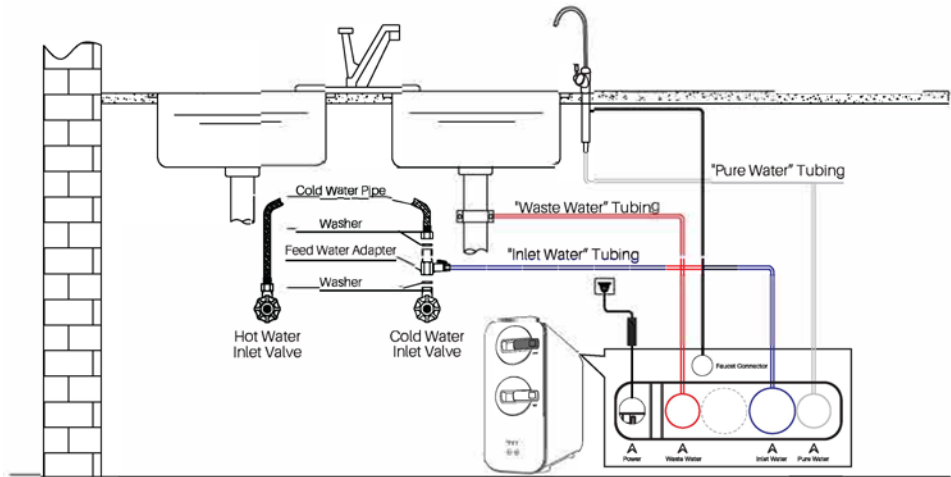
- 1 Pre-Filter: Carbon Block Filter (PPC)
- 2 Reverse Osmosis membrane (RO)
- 3 Power light
- 4 Service life indicator (PPC)
- 5 Service life indicator (RO)
- 6 Flush
- 7 Reset



KEY

- 1 Outlet to faucet
- 2 Power
- 3 Waste water port
- 4 Inlet water port
- 5 Pure water port

SECTION 6.0
TYPICAL INSTALLATION DIAGRAM



SECTION 7.0
SAFETY AND USAGE NOTES

This instruction manual lists important safety matters to prevent personal injury or property damage. Please read and understand the text and be sure to comply with the recorded security matters.



Keep away from children



Clean and replace filters regularly



Protect from direct sunlight and low temperatures



Keep away from children



Please install the machine as close to the floor drain or drain pipe as possible



Do not use flammable or volatile substances near the filtration system



Do not expose the machine to a heat source or an open fire



Check the inlet water pressure. If it exceeds 0.4MPa, a pressure reducing valve must be installed. If it is less than 0.1MPa, please install a booster device, otherwise the purifier may not function properly



Check whether the packaging of the machine is intact. please read the manual carefully, and check that the machine parts are complete according to the packing list.

SECTION 8.0

INSTALLATION PREPARATION

Check the mains cold water dimension. In the UK it's most likely to be 15mm.

In Europe it's possible to have a 1/2" or 3/8" OD compression inlet valve under the sink. Check the image opposite and choose the most suitable adapters that work best.

For 1/2" FIP outlet valve, use the compression hose to 1/2" FIP adapter and adapter 3/8" ready. If 3/8" OD Compression outlet valve, you do NOT need to use the hose adapters.



3/8" Compression Outlet



1/2" FIP Outlet



Left:
1/2 FIP to 3/8
compression



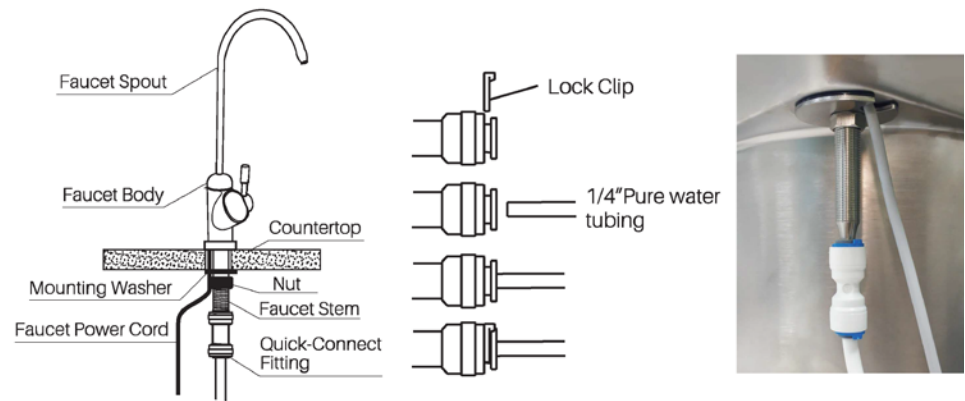
Right:
3/8 compression to
1/2 FIP

SECTION 9.0

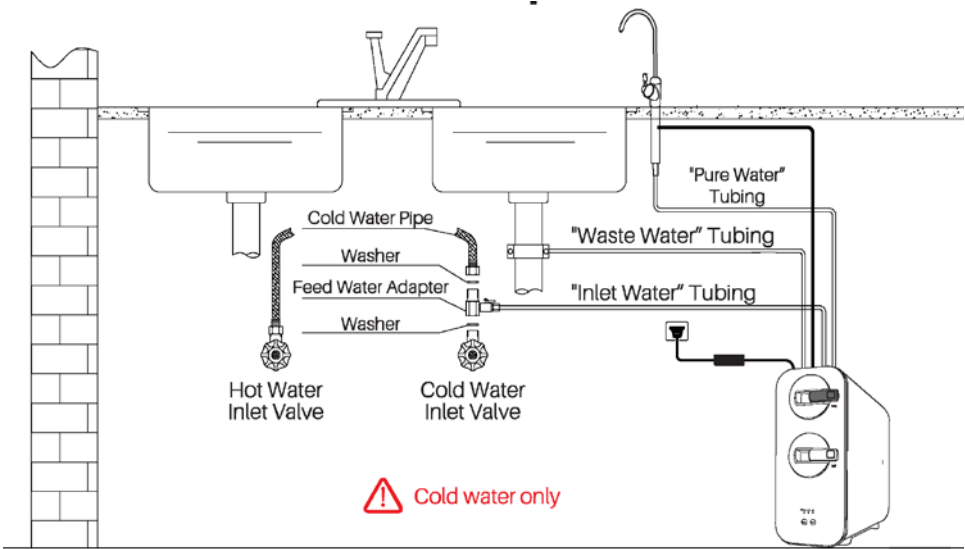
INSTALLING THE RO FAUCET

1. Choose where to site your faucet and drill a 12-15mm hole in the worksurface for the faucet (if you already have a suitably sized hole in the sink, this step can be omitted).
2. Insert the faucet stem and power cord into the hole.
3. Using the connectors provided, tighten the base plate (see picture).
4. Push the straight quick connector onto the faucet stem. Using the white 1/4" Pure water tubing, insert it into the quick connector pushing hard. Pull back gently to insert the locking clip to the fitting. If the pipe is not pushed in firmly enough it will leak but this can be checked after commissioning.

SECTION 9.0
INSTALLING THE RO FAUCET - continued



SECTION 10.0
INSTALLING THE FEED WATER ADAPTER



SECTION 10.0

INSTALLING THE FEED WATER ADAPTER - continued

1. Turn off the cold water inlet valve: first place a towel down to absorb water, then open the cold water tap and then close again.
2. Disconnect the hose from the water inlet valve.
3. Connect the feed water adapter with the water inlet valve (and washer) and tighten it with an adjustable wrench.

NOTE: If your system has a 1/2" mains water valve, screw the two converters (1/2" FIP to 3/8" Compression and 3/8" Compression to 1/2" FIP) to the feed water adapter and then implement step 3.

4. Connect the hose from the faucet (and washer) to the feed water adapter and tighten with an adjustable wrench.

IF 1/2" FIP OUTLET follow steps below



IF 3/8" COMPRESSION OUTLET follow steps below



SECTION 11.0

INSTALLING THE DRAIN SADDLE

1. Find a suitable spot above the water trap on the drainpipe to install the drain saddle on a vertical section. A trapped upstand is the idea location for this.
2. Mark first then slowly drill a 6mm hole where the drain saddle will sit.
3. Stick the foam seal over and around the hole on the saddle clamp then insert the tubing through the hole for about 15mm (see picture).
4. Now fit the clamp onto the drain pipe using the protruding pipe to position it correctly over the hole you drilled in the drain.

SECTION 11.0

INSTALLING THE DRAIN SADDLE - continued

5. Secure the front plate to the back plate by tightening the screws on both sides while leaving the tubing in the hole.
6. Pull back gently on the pipe and insert the locking clip.
7. Depending on local regulations you may need to install an air gap fitting to prevent back migration of bacteria. These can be purchased from PureH2O Ltd (www.pureh2o.co.uk)



SECTION 12.0

CONNECTING THE PIPES

1. Remove the dust cover from the ports.
2. Fit a length of 3/8" pipe from the mains cold water adapter to the main cold Inlet port on the system (use locking clips on all fittings).
3. Fit a length of white 1/4" pure water tubing into the base of the faucet. Insert the other end into the pure water port on the system.
4. Take the red 1/4" waste water tubing from the drain saddle and insert the other end into the waste water port on system
5. Connect the communication cable from the RO faucet to the RO system.
6. Now connect the power cable into the power port on top of the housing. This is a DC transformer, plug the other end into a suitable socket.

NOTE: Don't connect power socket yet.

After installation, please check that the tubing is installed correctly.

SECTION 12.0

CONNECTING THE PIPES - continued



SECTION 13.0

INSTALLING THE FILTER MODULES

The filters is marked with PPC/RO, you will see the corresponding icon on the system.

1. Remove the IntRO™ system cover.
2. Open the package of the filters.
3. Align the button on the top of filter horizontally to the notch on the appliance and carefully push the filter into the hole.



SECTION 14.0

START UP THE SYSTEM

After ensuring that the installation is correct, start up the system according to the following steps:

1. Open the cold mains water supply valve and feed water adapter.
2. Turn on the RO faucet power. The system lights flash alternately for 30 seconds whilst it flushes to drain. Open the RO faucet open and let the RO system run for approximately 30 minutes to thoroughly flush the membrane.
3. Check each connection. If you find drips it will be necessary to turn off the mains cold water feed valve, and reconnect by removing the pipe and refitting. Check that the pipe has been cut at 90 degrees and is clean. Rough edges on the pipe will lead to drips. If necessary cut the pipe back to remove damages.

Congratulations! You have successfully installed the system!

SECTION 15.0

DIAGNOSTICS

There is a button display area on the front of the machine, as shown in the figure below:

1. The power light will stay white when the power is on
2. Filter module life indicator:
 - (a) Life indicator stays white during module lifespan.
 - (b) If the filter module is near its expiration date, the indicator light will alternately flash red and white.
 - (c) If the filter has expired, the indicator light will remain red, and beep 10 times when producing water.



FLUSHING

The filter will automatically flush for 30 seconds each time it is powered on or the Flush button has been pressed. Auto flushing (15 seconds) takes place after a period of 30 minutes production. Whilst flushing, the two lights "PPC" and "RO" will flash alternately.

Note: the two Filter life indicators will alternately flash red when the filter modules are about to expire. These can be purchased from PureH2O Ltd. (www.pureh2o.co.uk)

SYSTEM IN PRODUCTION

PPC and RO lights will pulse when the system is producing water.

SYSTEM FULL

When full, the light will show the filter life status.

OVERRUN

If the system runs for 30 minutes it will automatically stop and the two filter lights will flash red at the same time with an alarm sound for 1 minute. Turn the faucet off, unplug the machine and plug it in again to reset.

INTRO™ PURITY INDICATOR (TDS DISPLAY)

Water purity is measured using conductivity. We call this Total Dissolved Solids (TDS) and this is measured in parts per million. Look on the side of a bottle of water and it will say dry residue after evaporation - the same measurement. Your mains tap water will read 3-500 TDS, possibly more. If the TDS rises it indicates that the membrane is starting to fail. Change filters annually to maintain purity at www.pureh2o.co.uk



INTRO™ PURITY INDICATOR (TDS DISPLAY) - continued

- The outer ring of the smart faucet lights up when water production is on.
- When the RO faucet is turned on, the faucet display shows the TDS value of filtered water. (TDS value will be affected by water flow rate, temperature and other factors.)
- When 90% of the life of the filter element has been used, the RO system indicator light flashes alternately in red and white, and the "Please Replace Filter" light on the RO faucet display flashes.
- When the service life of the filter element ends, the RO system indicator light will be red and the "Please Replace Filter" light of the RO faucet display will always be on.

SECTION 16 REPLACING THE FILTERS

Step 1: Remove the IntRO™ system cover.

Step 2: Lift the handle on the top of filter or directly press the button on RO system, pull out the filter.

Step 3: Open the package of the new filter. Align the button on the top of filter horizontally to the notch on the appliance and push the filter into the hole carefully.

Step 4: Close the IntRO™ system cover.



NOTE

- 1. When replacing the filter, it's better to close the mains cold water feed.**
- 2. After replacing the filter, you must reset the Filter life indicator, otherwise it will stay red (expired state) or flash alternately red and white (expiring soon).**

SECTION 17.0
DAILY MAINTENANCE

The recommended replacement cycle of the filter elements is shown in the table below. (The replacement cycle of filter elements may vary depending on the water quality and the amount of usage.)

FILTER NAME	PPC composite filter element	RO reverse osmosis membrane filter element
FILTER REPLACEMENT CYCLE	12 months	24 months

SECTION 18.0
FREQUENTLY ASKED QUESTIONS

Should I reset the indicator after replacing the new filter?

After replacing the filter module, you must reset the Filter life indicator, otherwise the Filter indicator will stay red (expired state) or flashing alternately red and white (expiring soon).

How do I reset the Filter Life, PPC and RO indicators?

When the filter is powered on, hold the Reset button for 3 seconds to enter the reset mode, in the meanwhile the PPC light flashes. Press the Reset button to select which filter you want to reset. The selected filter light flashes (with an alarm sound). Hold the Reset button for 3 seconds, and the life of the selected filter will be reset (with an alarm sound). The life of the PPC filter and the RO filter can be

SECTION 19.0

FAULT IDENTIFICATION

FAULTS	POSSIBLE CAUSES	SOLUTIONS
No water coming out of the faucet.	The inlet valve is not open. Filter module location error. System is not connected to power.	Open inlet valve. Correct Installation of core. Check power.
Low flow.	Bending or twisting of pipe work lines. The water inlet valve is not fully opened. Low water temperature (especially in winter). The filter module has expired.	Check pipeline. Fully open inlet valve. As the water temperature decreases, the water purification will decrease accordingly. Replace filter module.
Water for domestic use cannot be discharged.	There is a block in the drainage. The filter module has expired.	Shut down inlet valves and power supply, contact PureH2O Ltd for service. Replace filter module.
Filtered water has a smell.	Has not been used for a long time.	Flush the RO system for 20 minutes
Leak on pipe connection.	The pipe is not inserted far enough into the quick connector.	Reconnect.

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