



RO-5U

HEALTH · INNOVATION
PURE · STYLE



Reverse Osmosis Water Purifier
- Instruction Manual -

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PRODUCT DESCRIPTION

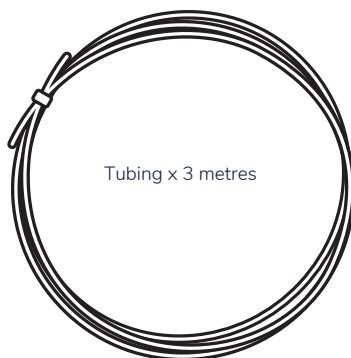
Item No.	RO-5U
Production	189 Litres per day (50GPD)
Cartridges	5 x quick change filter cartridges (includes membrane)
RO Membrane	Quick change, TFC membrane
Holding Tank	8 Litre capacity, NSF approved and certified
Dimensions	H = 390mm x W = 245mm x D = 390mm
WaterMark Certification	WMTS-103
Power Supply	100-240VAC/24VDC, AS/NZS 4417 approved
Weight	12.5kg (empty) 16.5kg (full)



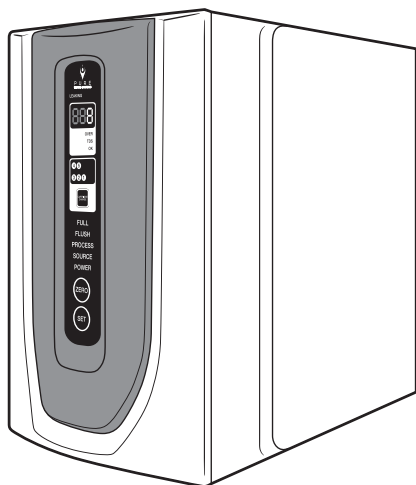
Isolation Valve & Reducer



Drain Clamp



Tubing x 3 metres

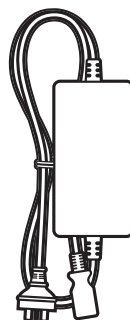


RO-5U System



Faucet

(Illustration purposes only. Faucet varies depending on purchase choice.)



AC/DC Power Supply

INSTALLATION INSTRUCTIONS

FOR PLUMBING TECHNICIAN USE ONLY

IMPORTANT: Read the instructions carefully prior to installation

- Check there is adequate space for the RO-5U in the desired location
- Confirm the desired location of the faucet before commencing
- Check power is available
- Check what fittings will be required to connect the RO-5U into the cold water supply
- The kit includes a 15mm isolation valve and brass fitting to reduce down to the supplied tube. The RO-5U must be fitted to the cold water supply **ONLY**
- Check the shelf supporting the RO-5U is adequate for the total weight of the RO-5U when full of water
- The RO-5U must be installed as per AS3500.1
- The drain line must be installed as per AS3500.2
- The RO-5U must only be installed by a licensed plumber

STEP 1.

- Install the supplied faucet as per installation instructions included with the faucet

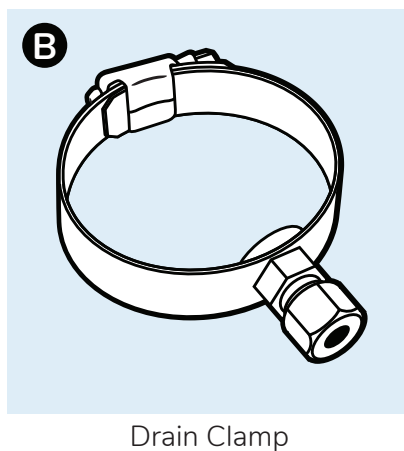
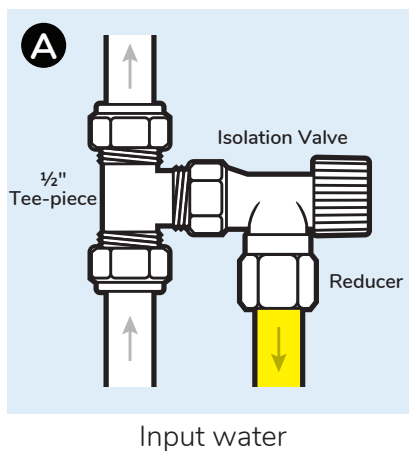
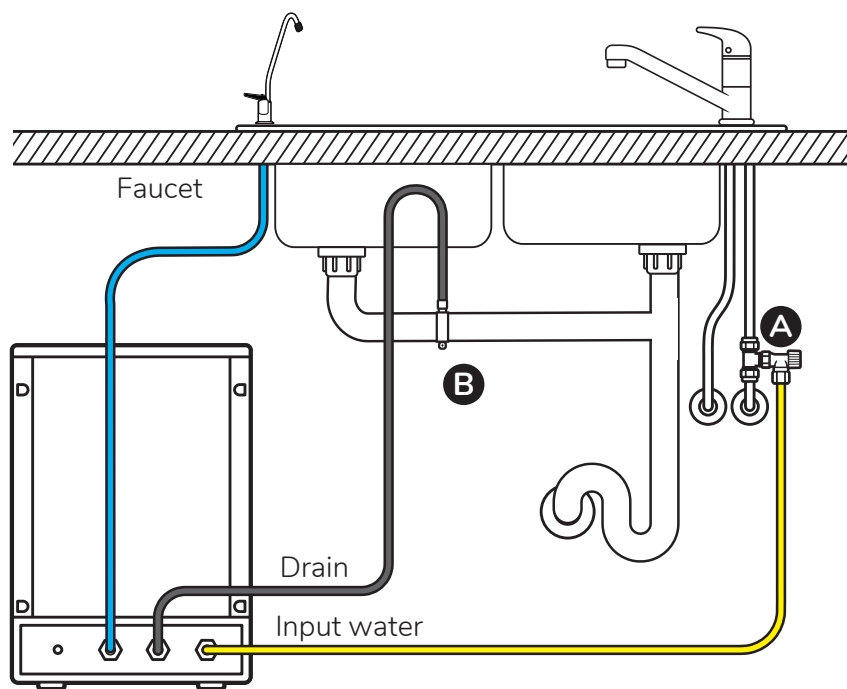
STEP 2.

- Install the isolation valve for the RO-5U
- Connect the ½" x ¼" reducer to the isolation valve

STEP 3.

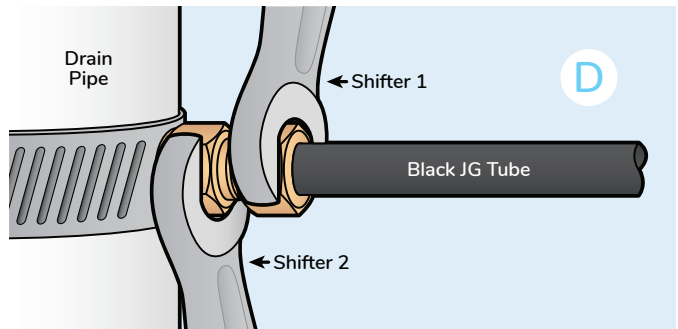
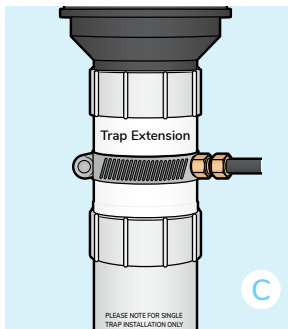
- Ensure adequate lengths of tube are used so that the RO-5U can be removed from the cupboard for servicing
- Connect one end of the yellow tube to the cold water line utilising the previously installed isolation valve and brass reducer **(A)**
- Connect the other end to the 'INLET' port of the RO-5U (**Note:** A pressure limiting valve is installed inside the RO-5U and therefore not required externally)
- Connect one end of the blue tube to the faucet
- Connect the other end of the blue tube to the 'FAUCET' port on the RO-5U
- Connect the black tube to the double bowl connector or if a single trap, install a 50mm x 40mm trap extension and connect the drain clamp to the trap extension - **NOT THE TRAP (B)**
- Connect the other end of the black tube to the 'DRAIN' port on the RO-5U
- Connect AC/DC power supply to the RO-5U and an approved GPO (general power outlet)

INSTALLATION INSTRUCTIONS



CONNECTION TO DRAIN

1. Locate the double bowl connector and drill a 6mm hole into it to allow the installation of the drain clamp. The hole should be drilled on the top of the double bowl connector in between the two sinks (see **Figure C and D**) in accordance with AS/NZS3500.2.
 2. **THE DRAIN CLAMP MUST NOT BE INSTALLED DOWNSTREAM OF THE TRAP AS SEWER GAS MAY ENTER THE CUPBOARD AREA.**
 3. **THE BLACK ¼" JOHN GUEST TUBE MARKED 'DRAIN' MUST LOOP UP AND TOUCH THE BOTTOM OF THE KITCHEN SINK BENCH, AS FOR A DISHWASHER IN ACCORDANCE WITH AS/NZS3500.2 (see Figure E and F).**
 4. **THE DRAIN CLAMP MUST NOT BE INSTALLED ON THE TRAP. IT MUST BE INSTALLED SEPARATELY.**
 5. If there is only a single trap, a 50 x 40mm trap extension should be installed so the drain clamp can be installed (see **Figure C**).
 6. Connect the black ¼" John Guest tube marked 'drain' to the drain clamp.
 7. Use two shifters to tighten the brass nut on the drain clamp. One shifter to hold the drain clamp nut and the second shifter to tighten the brass slip nut on the black ¼" John Guest tube marked 'drain' (see **Figure D**).
- Failing to use two shifters may lead to the drain clamp breaking which is not covered under warranty.**



COMMISSIONING

FOR PLUMBING TECHNICIAN USE ONLY

BEFORE COMMISSIONING CHECK THE FOLLOWING:

- Check the RO-5U has been installed correctly
- Check all plumbing fittings have been tightened
- Check the electrical connection

COMMISSIONING TO BE DONE BY INSTALLING PLUMBER:

- Slide up the back panel of the RO-5U
- Turn the tank tap to the 'off' position (clockwise)(tank tap is the blue tap located in the top left-hand corner, under the rear panel)
- Turn the general power outlet (GPO) on
- Turn on the isolation valve to allow water to the RO-5U
- Turn on the faucet on top of the sink
- Within 15 minutes water will start to trickle from the faucet
- Let the water run for at least 30 minutes to flush the cartridges
- After the initial flushing, turn on the tank tap that was initially off back to 'on' and slide the back panel back into place
- Turn off the faucet on top of the sink
- The holding tank inside the RO-5U will now fill
- The installation is now complete

POST INSTALLATION CHECK BY CUSTOMER:

- The '**FULL**' light on the front panel will illuminate and all hydraulic noise will stop. It may take up to 2 hours for the tank to fill, depending on the inlet pressure
 - When the tank is full, turn on the faucet on top of the sink and drain the tank. When the flow from the faucet reduces to a trickle the tank is empty
- IMPORTANT** - DO NOT USE THE FIRST TANK FULL OF WATER
- After the tank has drained, turn off the faucet on top of the sink
 - The tank will begin to fill and the RO-5U will be ready for use

NOTE: If you are going away from your home for more than 2 days, it is recommended to turn off the water supply, drain the tank and switch off the power to the RO-5U

FUNCTIONS

- A Auto 'LEAKING' detection** - If a leak is detected within the unit, the inlet water supply will automatically shut off. The **LEAKING** light will flash and the RO-5U will beep continuously.
- B Water quality sensor** - The RO-5U will constantly monitor the TDS (Total Dissolved Solids) in the water and display as PPM (parts per million).
IMPORTANT NOTE: When the RO-5U first starts filtering water or after a period of non-use the TDS level may be high and then slowly come down. This is normal.

- C OVER** - Indicates when the TDS value is higher than acceptable and the membrane should be changed.

TDS - Indicates when the TDS is displayed above (B).

OK - TDS level is acceptable.

Note: Level is pre-set based on local water quality.

- D Cartridge replacement reminder** - The cartridge number will blink when it is time to replace it.
- E CARTRIDGE CHANGE** - Button to isolate water supply - use this button when changing cartridges.
- F FULL** - Indicates when the holding tank is full.

FLUSH - The RO-5U will complete a membrane flush periodically which will extend the life of the RO membrane.

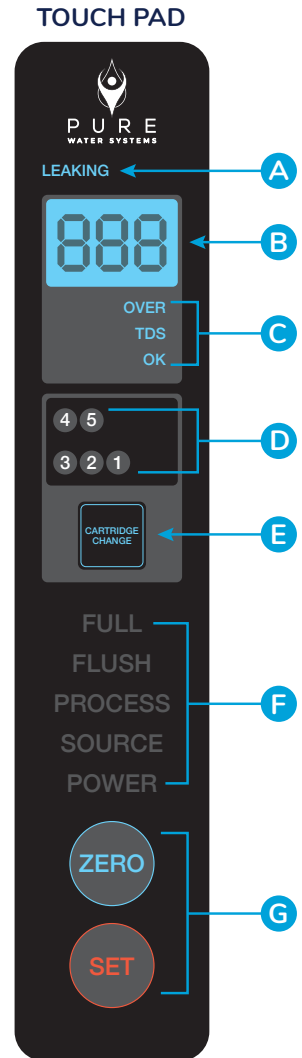
PROCESS - This will illuminate when the RO-5U is filtering water.

SOURCE - This light will blink if the water supply is cut to the RO-5U.

POWER - Indicates power is supplied to the RO-5U.

- G ZERO** - Used when changing cartridges.

SET - Used for updating filter replacement time and TDS value.



FUNCTIONS

IMPORTANT INFORMATION:

The RO-5U has a pre-set TDS value of 20ppm (standard pre-set may vary depending on local water quality). When the TDS level reaches 20ppm or 2 years has passed, the number 4 will flash on the control panel, indicating replacement is needed. When the RO-5U is filtering water there will also be a 90 second beeping reminder to change the cartridge.

The RO-5U incorporates a booster pump which delivers the desired amount of pressure to the RO membrane to ensure it works at its optimum level. When the RO-5U is filtering water the '**OK**' light will be on and the TDS value will be shown on the display. There is generally a 4 minute delay for the TDS value to appear after the RO-5U starts up.

When the tank is full, the RO-5U will stop processing water and the '**FULL**' light will come on. When the RO-5U is not processing water the TDS value will not be displayed.

The RO-5U will perform periodic RO membrane flushes. This will happen for 15 seconds before and after water production. Also for 2 minutes when the power is turned on or when pressing the ZERO button (after a filter cartridge replacement). The FLUSH light will illuminate during this process.

When the cartridges are due for replacement the corresponding number will flash on the control panel. When the RO-5U is filtering water there will also be a 90 second audible reminder to change the cartridges.

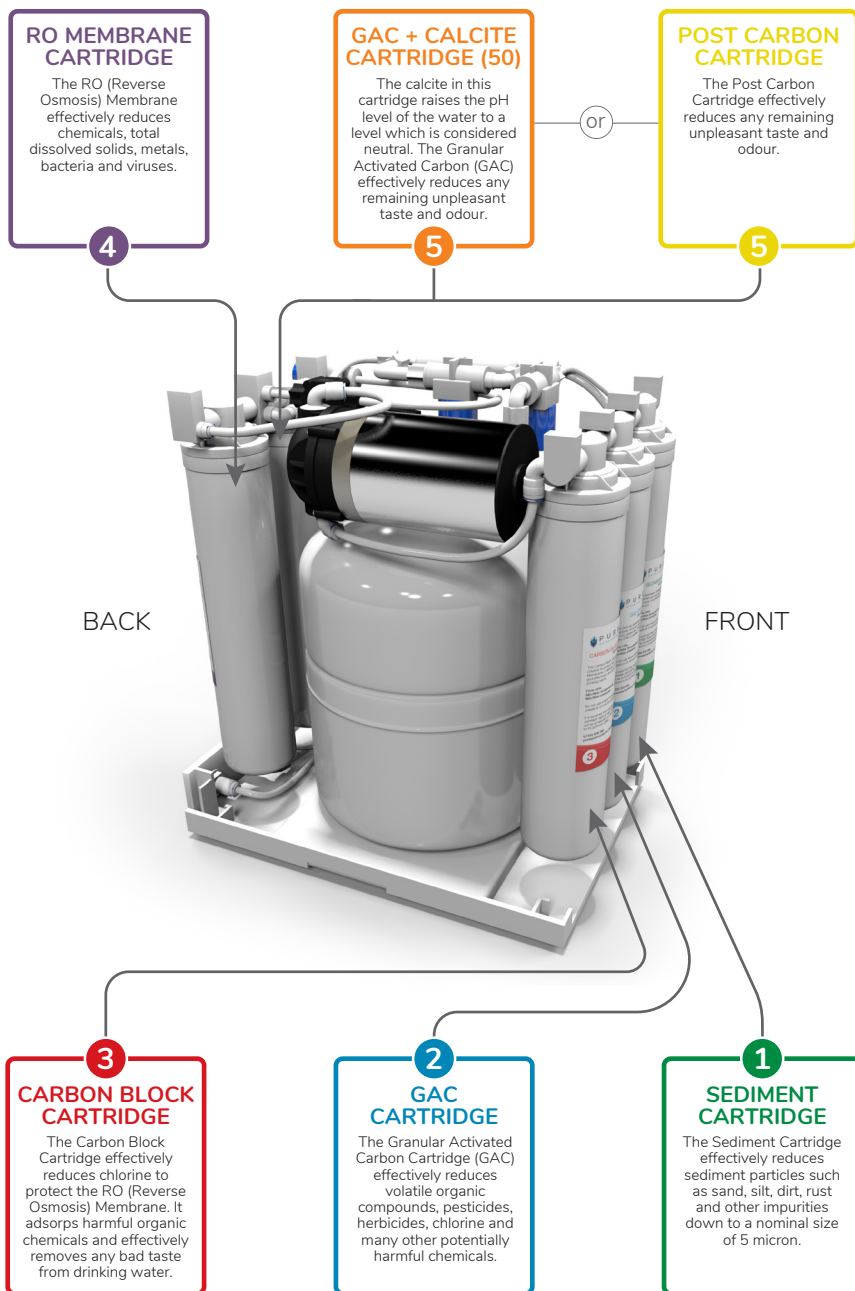
WARNING - Cartridges are under water pressure. Follow the filter replacement instructions.

CARTRIDGE LIFESPAN

CARTRIDGE	SERVICE LIFE
1. Pre-Filter	12 months
2. GAC	12 months
3. Carbon Block	12 months
4. RO Membrane	2 years or TDS 20ppm
5. GAC + Calcite (30 or 50)	12 months

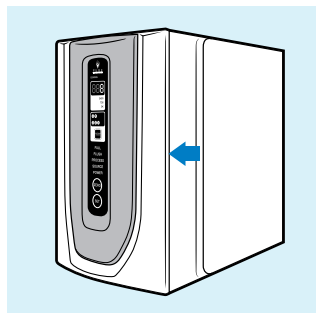
NOTE: All cartridges may be subject to replacement earlier than the recommended period. This is dependent on individual usage and varying water quality throughout Australia.

CARTRIDGE INFORMATION

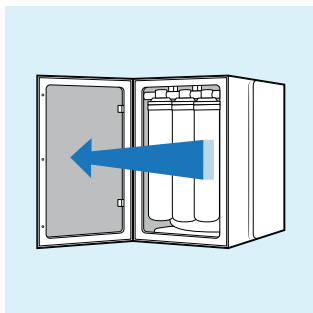


MAINTENANCE - CARTRIDGE REPLACEMENT

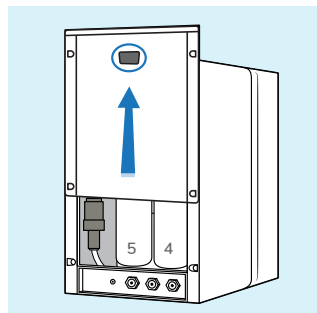
TO ACCESS CARTRIDGES



1. Pull the front door open, as shown by the arrow.



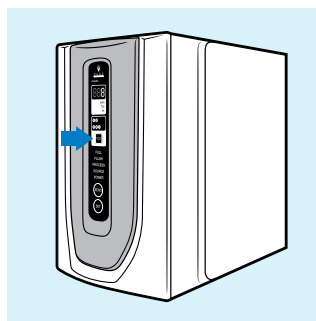
2. You will have access to cartridges 1, 2 and 3 once the front door is opened.



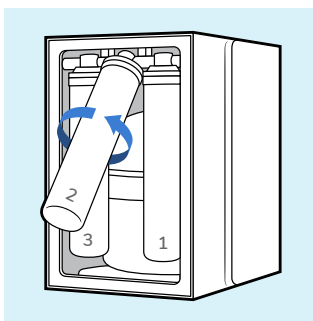
3. To access cartridges 4 and 5, press the button and slide the back cover upwards.

STAGES 1, 2 and 3

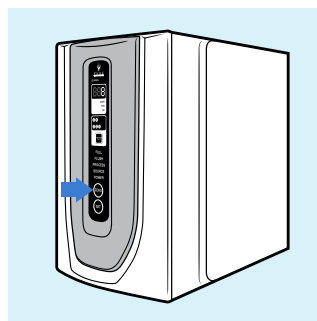
WARNING - Insert a cloth under the cartridges before removing them as drips may occur. Excessive dripping into the unit base tray may trigger the auto leak detection.



1. Press and hold the CARTRIDGE CHANGE button until light flashes.



2. Pull the used cartridge forward, twist anticlockwise and gently pull down to remove. Replace with a new cartridge. Repeat for each cartridge.

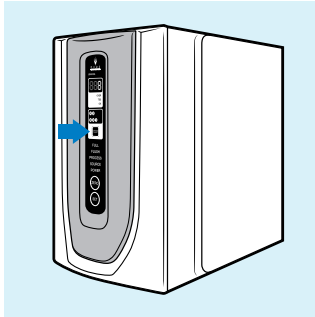


3. Press ZERO button to reset. If multiple cartridges are showing as due for replacement, **replace them all before** pressing the ZERO button.

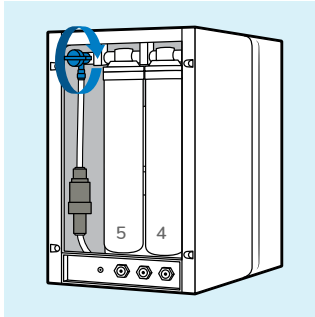
MAINTENANCE - CARTRIDGE REPLACEMENT

STAGES 4 and 5

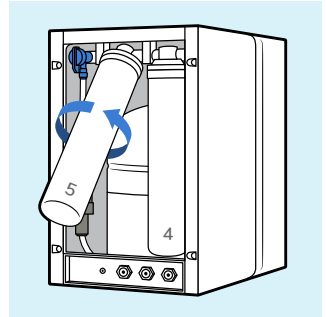
WARNING - Insert a cloth under the cartridges before removing them as drips may occur. Excessive dripping into the unit base tray may trigger the auto leak detection.



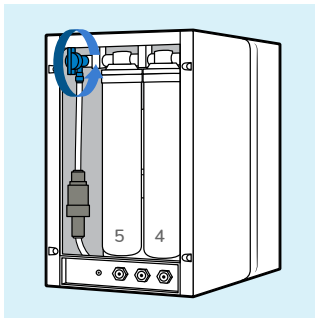
- 1.** Press and hold CARTRIDGE CHANGE button until light flashes.



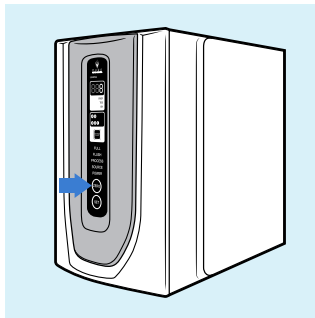
- 2a.** To open the back, slide back cover upwards to remove.
2b. Turn the tank tap to the OFF position.



- 3.** Pull the used cartridge forward, twist anticlockwise and gently pull down to remove. Replace with a new cartridge.



- 4a.** Turn the tank tap to the ON position.
4b. Slide the back cover down until it clips closed.



- 5.** Press ZERO button to reset. If both cartridges are showing as due for replacement, replace all due before pressing the Zero Button.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
No water from the faucet	Water supply has failed	- Check the water supply is turned on - Plug the RO-5U in and turn the power on - Check the power supply to the RO-5U
	Tank tap in OFF position	Turn tank tap ON
Reduced quantity of available water	Cartridge/s blocked	Replace cartridge/s
	Kinked hose	Straighten out the hose
	Other reasons	Turn off the water and power supply, contact Pure Water Systems
Water leaking	Tube or fittings	Turn off the water and power supply, contact Pure Water Systems
Leaking light is flashing and beeping	Internal leak NOTE: Leak detector is accessed by lifting Cartridge 2	- Turn off the water and power supply - Determine source of leak - Rectify leak if possible - Dry the inside of the RO-5U - Dry the leak detector - Turn on the water and power supply - If the above doesn't correct the leak, contact Pure Water Systems
Bad taste	RO-5U hasn't been used	Turn on the faucet and flush the RO-5U
	Post Carbon + Calcite (30 or 50) cartridge needs replacing	Replace cartridge/s
Booster Pump is constantly running	Solenoid or pressure switch	Turn off the water and power supply, contact Pure Water Systems
Water is constantly running to the drain	Solenoid or pressure switch	Turn off the water and power supply, contact Pure Water Systems
High TDS value after changing cartridges	Airlock occurred after cartridge change	- Press and hold CARTRIDGE CHANGE button - Wait for 30 seconds - Press and hold CARTRIDGE CHANGE button - The FLUSH light will come on for 5 seconds. When complete the PROCESS light will come on - Repeat process
Increased pump noise after changing cartridges		
Longer than normal 'process' time after changing cartridges.		

AFTER SALES SERVICE

WARRANTY

Pure Water Systems offer a 12 Month Parts Warranty on the RO-5U. Due to the nature of the product, warranty may require the unit to be returned to Pure Water Systems.

For full warranty terms and conditions, please scan the following QR code.



Pure Water Systems (Aust.) Pty Ltd
27 Leda Drive
Burleigh Heads QLD 4220
1300 808 966
info@purewatersystems.com.au
purewatersystems.com.au

TERMS

VOC	=	Volatile Organic Compounds
RO	=	Reverse Osmosis
TDS	=	Total Dissolved Solids
GAC	=	Granular Activated Carbon
PPM	=	Parts Per Million
LPM	=	Litres Per Minute
GPM	=	Gallons Per Minute
GPO	=	General Power Outlet
LPD	=	Litres Per Day



Pure Water Systems (Aust.) Pty Ltd
27 Leda Drive, Burleigh Heads QLD 4220
☎ 1300 808 966 💻 purewatersystems.com.au