OFFGRID WATER

OWNER'S MANUAL / MODEL A8

Offgrid Final Stage Reverse Osmosis Unit

Installation, first use and cartridge changes.

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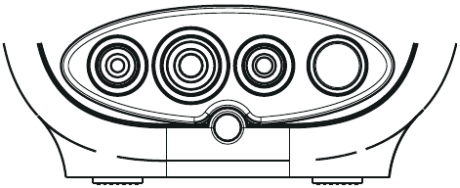


This under-sink unit supplies a separate tap for drinking and cooking. It has two twist-lock cartridges, marked **RO** and **PCT**, behind the front cover.

English (UK) / November 2026

Ports and water connections

Face the rear of the unit. Match each pipe to the marking beside its port before you open the feed valve.



Rear port order

From the left: drain, cold inlet, purified water. Follow the labels on your unit.

DRAIN	Reject water leaves the unit here. Connect this pipe to the waste fitting.
INLET	Connect the cold feed from the isolation valve. The unit needs 1–4 bar at the inlet.
PURIFIED	Connect this pipe to the separate drinking-water tap.

Where the unit fits

Take a branch from the pressurised, suitably pre-treated cold supply. In an Offgrid Complete system, take the RO feed downstream of Stage Two and the fitted UV stage. The other domestic outlets stay on their existing supply.

Feed water The A8 is specified for municipal tap water. Private freshwater needs suitable treatment before it reaches the unit. If the source may be contaminated, use a known-safe supply for drinking and cooking while it is assessed.

See the under-sink connection diagram on page 10.

Fit the unit

01 **Check the space.** Fit indoors in a dry, frost-protected cupboard. Leave room to reach the feed valve, rear pipes and front cartridges. Keep electrical connections clear of possible leaks.

02 **Isolate water and power.** Shut the cold supply and relieve pressure before opening the pipework. Use the new tubing and fittings supplied with your kit.

03 **Fit the drinking-water tap.** Check clearance above and below the worktop before drilling. The supplied Offgrid tap needs a 23 mm hole. Use an installer familiar with your worktop material.

04 **Connect the cold feed.** Fit the supplied tee and isolation valve to compatible plumbing, then route the feed pipe to INLET. Check the size of the fittings in your kit.

05 **Connect the waste.** For the supplied saddle on suitable 40 mm waste pipe, drill a 5 mm hole in the top of the pipe. Align the saddle opening and sealing pad with the hole. Fit the non-return valve near the waste connection, with flow towards the drain.

06 **Connect the tap and power supply.** Route PURIFIED to the drinking-water tap. Use only the adapter or converter supplied for your kit. The unit runs on 24 V DC. A 12 V installation needs the supplied conversion.

Before switching on Open the feed valve slowly. Check the unit and every joint for leaks. Once the connections are dry and leak-free, switch on and follow the first-use procedure on page 4.

First use

Keep both cartridges fitted. Route all water from the drinking-water tap to waste during conditioning. Make sure the drain can take the flow and stay nearby during both production runs.

Run for 1 hour

Open the drinking-water tap and let the unit produce water normally. Check that reject water reaches the drain and that the joints stay dry.

Rest for 24 hours

Close the drinking-water tap and leave the unit to stand.

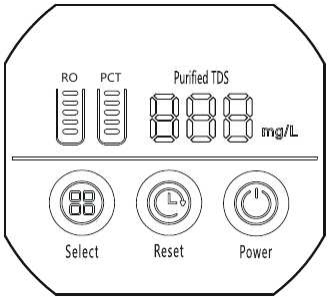
Run for 1 more hour

Open the tap again. Discard the water for the second hour, close the tap, then check the unit and its connections for leaks.

If E1 appears The controller can stop production after 60 minutes of continuous demand. Close the tap and check the installation. Never override the protective stop to complete a timed run. See page 7.

Offgrid Water's practical check is to flush for about ten minutes while looking for leaks and initial carbon fines. For first commissioning, complete the full sequence above. After changing cartridges, use the shorter procedure on page 6.

Controls and indicators



Select Hold for 3 seconds to start an 18-second flush when the unit is idle. In reset mode, tap to choose a cartridge.

Reset Hold for 3 seconds to enter the cartridge reset sequence. See page 6.

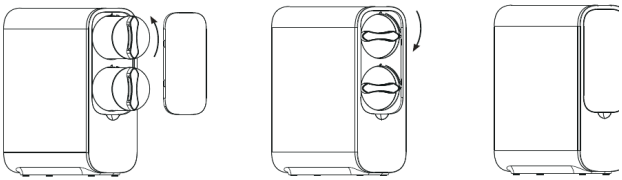
Power controls the display. The unit stays energised when the display is dark. Disconnect the electrical supply before servicing.

What the lights mean

Moving light strip	The unit is producing water. A steady strip indicates standby. A flashing strip indicates flushing.
Steady blue tap ring	Normal cartridge indication while the tap is open. The ring normally goes out when the tap is closed.
Flashing blue ring	The controller estimates about 10% cartridge life remains. Check which cartridge indicator is showing.
Steady red ring	A cartridge has reached the controller's service point. The indicator can also flash and the unit may beep ten times.
TDS, mg/L	The dissolved-solids reading updates about every 10 seconds during production. A TDS reading cannot establish drinking-water safety.

Change both cartridges

Offgrid Water's routine service is to change the PCT cartridge and RO membrane together every two years. Follow any earlier limit on the fitted cartridges. Investigate a warning or reduced performance sooner.



01 **Isolate.** Close the feed valve, open the RO tap to relieve pressure and disconnect power. Put a clean cloth beneath the cartridges.

02 **Remove and refit.** Lift off the front cover. Turn a cartridge anticlockwise to the open-padlock mark and withdraw it. Align the new cartridge with the unlock mark, insert it and turn clockwise until locked. Repeat for the other cartridge, matching RO and PCT to their positions. Refit the cover.

03 **Restore water and power.** Check for leaks. Keep both cartridges fitted and leave the internal tubing connected.

04 **Reset each indicator.** Hold **Reset** for 3 seconds. Tap **Select** until the changed cartridge flashes. Within 10 seconds, hold **Reset** for 3 seconds to confirm. Repeat for the second cartridge.

05 **Flush.** Hold **Select** for 3 seconds to start the built-in flush. Open the RO tap and run to waste for **5–10 minutes**. Close the tap and check for leaks.

In the Owners app, choose **Both filters changed** once to record the pair.

Faults and time away

E1 and beeping	After 60 minutes of continuous demand the unit stops. Close the tap. Check the feed, drain and joints. Once the cause is resolved, disconnect and restore power. If E1 returns, isolate the unit and contact support.
Low or no flow	Check the feed valve and inlet pressure. Straighten kinked tubing. Cold feed water and fouled cartridges can reduce flow. If the cause is unclear, contact support before replacing parts.
Water at a joint	Close the feed and disconnect power safely. Relieve pressure at the tap before inspecting the fitting. Check again for leaks under pressure.
Changed taste or an unusual reading	Check the source, upstream treatment and service history. If you suspect contamination, use a known-safe drinking and cooking supply while the cause is assessed.

Normal flushing and drain flow

At power-up the unit flushes for 30 seconds. If no flush has occurred, it flushes for 18 seconds after 30 minutes of production when it returns to standby, or after 6 hours in standby. Around 380 mL may drain after production stops.

Leaving the system unused

Away for more than three days? Close the feed and disconnect power. On return, check for leaks and discard the first few minutes of output. After prolonged stagnation, suspected freezing or contamination, contact Offgrid Water before drinking.

Technical specifications

Manufacturer reference values for the A8. Check the labels on the actual unit, adapter and cartridges when fitting or sizing equipment.

Feed water	Municipal tap water or suitably treated private freshwater meeting the feed requirements.
Feed pressure	1–4 bar (0.1–0.4 MPa).
Temperature	Feed water 5–38°C. Indoor air 5–45°C. Maximum relative humidity 90%.
Drinking-water flow	Rated 95 L/h, approximately 1.6 L/min. Actual flow varies with pressure, temperature and feed quality.
Rated output volume	4,000 L under manufacturer test conditions. This figure does not establish service life on your supply.
Unit body	Manufacturer drawing: 433 × 137 × 405 mm. Measure the unit and allow extra space for tubing and servicing.
Electrical supply	24 V DC at the unit. Match the input to the supplied adapter label. The manufacturer lists 95 W and Class II. Use the fitted labels for electrical sizing.
Cartridge references	At 10 L/day on municipal water within specification, the manufacturer gives 8–12 months for PCT and 12–24 months for RO. Feed conditions can shorten life. See the Offgrid paired service on page 6.

Service reference

The figures below are the manufacturer's suggested component replacement intervals. A service technician can identify the fitted parts. Disconnect the water and power for service. A damaged power assembly needs professional replacement.

30 months	Inlet solenoid valve, high-pressure switch and polyethylene (PE) tubing.
36 months	Filter housing, connectors and sealing rings.
48 months	Flushing solenoid valve.
60 months	Power adapter, booster pump, indicator board and drinking-water tap.

How water moves through the unit

Feed water passes through the pre-filter section of the PCT cartridge. The booster pump supplies the RO membrane. The membrane sends reject water to the drain and treated water through the check valve, TDS sensor and final carbon stage to the drinking-water tap.

For service enquiries Include your order number, water source, the lights or error code you see, and a photo of the unit and its connections.

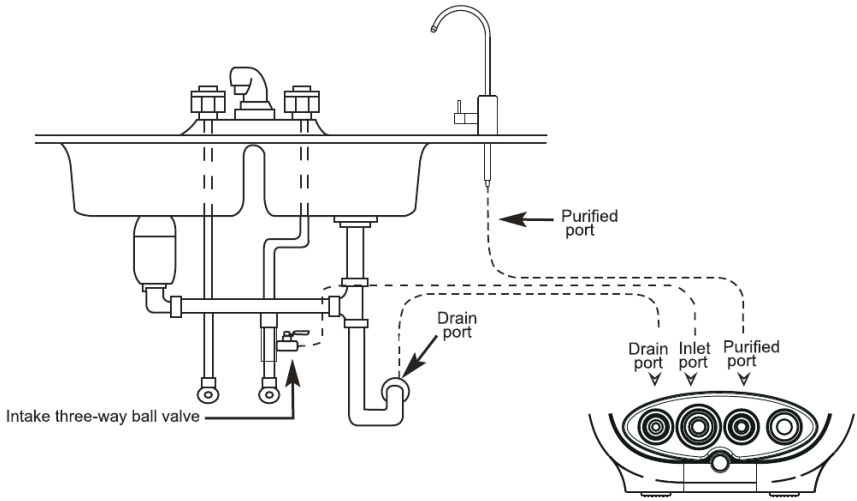
hello@offgridwater.net

Installation and filter support

Offgrid Water Owners app

Installation diagrams

The A8 connects to the cold feed, the sink waste and a separate drinking-water tap. Trace each pipe to its destination before you open the isolation valve.



Under-sink connections

The tee and valve take water from the cold supply. The drain line carries reject water to the waste fitting. The drinking-water line runs from the purified outlet to the small tap.

Power and controls

The supplied adapter or converter feeds the 24 V controller. The controller operates the pump and the inlet and flushing valves. It reads the pressure switch and TDS sensor, and drives the display. For a fault inside the housing, isolate the unit and contact Offgrid Water.