R.O. WATER PURIFIERS · AQUARIUM

Atlantis Aquarium Water Purifier

Atlantis

3-stage reverse osmosis · 75 GPD · No pump · Aquarium and hydroponics

Compact 3-stage reverse osmosis unit that purifies mains water for aquarium and hydroponic use. Its 75 GPD membrane produces water at 95 – 98% purity.

The 5 µm sediment filter retains particles larger than 5 microns; the carbon filter removes chlorine and protects the membrane. It has no pump and runs on mains pressure; quick-connect fittings and a 300 cc flow restrictor make installation easy.



CAPACITY	PURITY
75 GPD (284 L/day)	**95 – 98** %
FILTRATION	PUMP
3 stages	**None** mains pressure

01 FILTRATION STAGES

Stage	Filter	Function	Replace
Stage 1	2" Inline Sediment 5 µm (Quick-connect)	Retains sand, rust and sediment	6 – 12 months
Stage 2	2" Inline GAC Carbon (Quick-connect)	Removes chlorine, protects the membrane	6 – 12 months
Stage 3	75 GPD Membrane Filter	Separates dissolved salts and contaminants	12 – 24 months

Recovery: about 1 part purified water to 3 – 4 parts concentrate. Replacement intervals are typical values and depend on water quality and usage.

02 OPERATING CONDITIONS

Feed water pressure	3 – 7 bar
Feed water temperature	5 – 38 °C (41 – 100 °F)
Feed water TDS	Max. 500 ppm
Feed water pH	3 – 11
Hardness	Max. 20 °F
Power supply	Not required (no pump)

03 TECHNICAL SPECIFICATIONS

Stock code	3-04-AKV
Purity / rejection	95 – 98%
Recovery (permeate : concentrate)	≈ 1 : 3 – 4
Connection	Quick-connect, 3/8" feed adapter
Flow restrictor	Quick, 300 cc
Box contents	Membrane, membrane housing, flow restrictor, sediment and carbon filter, tubing, connectors
Unit size	130 × 130 × 350 mm
Warranty / service life	2 years / at least 10 years

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04 USAGE GUIDE

Application	How to use the RO water
Freshwater aquarium	RO water has no minerals; add a GH/KH remineraliser before use.
Shrimp and discus	Add minerals to the GH, KH and TDS suited to the species; check with a test kit.
Marine and reef aquarium	Mix the RO water with sea salt; top up evaporation with pure RO water.
Hydroponics	Make up the nutrient solution with RO water; check EC and pH.

The TDS of the purified water is usually 0 – 10 ppm. Membrane ratings are for 25 °C water; production drops in cold water.

05 FEATURES

- 3-stage reverse osmosis filtration
- Aquarium water at 95 – 98% purity
- 75 GPD membrane
- No pump, no electricity needed
- Compact build, easy quick-connect installation

06 APPLICATIONS

- Freshwater aquariums
- Marine and reef aquariums
- Shrimp, discus and soft-water tanks
- Hydroponics and soilless growing
- Terrariums and plant watering

07 INSTALLATION AND MAINTENANCE

01 Connect the unit to the cold water line or faucet.

02 Position the purified water and waste water tubes.

03 Discard the water produced in the first 10 minutes.

04 Replace the filters at the intervals given.

> Do not connect the unit to hot water (above 40 °C). Pressure: do not use below 3 bar; above 7 bar fit a pressure reducer at the inlet. Replace the filters at least once a year; if unused for over a month, close the valve and empty the tank.

08 LOGISTICS

Model	Box Size (mm)	Box Weight
Single box	150 × 150 × 370	—
Carton (12 pcs)	620 × 470 × 390	12.83 kg

Each unit is in its own box; 12 boxes are shipped per carton (4 × 3 layout).







The technical values in this document are for information purposes only and were obtained under standard test conditions. Actual performance may vary depending on water quality, temperature, pressure and operating conditions. HSC Water reserves the right to change technical specifications without prior notice as part of ongoing product development.

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