01 / PRESSURE VESSELS

Pressure vessels. *Practical sizes.*

Four selected capacities for water boosting, irrigation and pressure-management enquiries. PressureWave steel diaphragm tanks, specified with BSP water connections.

24 / 60 / 100 / 150 litres | 10 bar maximum working pressure | BSP selection



PressureWave family illustration · arrangements shown are representative

24 litres

Compact installation options

Inline: PWB-24LX · Horizontal: PWB-24LH

1″ BSPT male connection. Choose the arrangement to suit available space and pump layout.

60 litres

A practical mid-size option

Horizontal: PWB-60LH · Vertical: PWB-60LV

Horizontal: 1″ BSPT male. Vertical: 1″ BSPP female. Available in two installation arrangements.

100 litres

More capacity, two arrangements

Horizontal: PWB-100LH · Vertical: PWB-100LV

Horizontal: 1″ BSPT male. Vertical: 1″ BSPP female. Select to match the pump and required draw-off.

150 litres

Our largest selected capacity

Vertical: PWB-150LV

1″ BSPP female connection. A larger vertical option for applications requiring increased vessel volume.

Choose by system duty. Nominal vessel volume is not usable water storage. Required size and pre-charge depend on pump flow, minimum run time and control settings. Use the manufacturer's sizing guidance.

Conventional pump control

Pair with an APS pressure switch, five-way brass connector, gauge and BSP flex connection. Provide suitable motor and low-water protection.

Electronic pump control

PumpWave 2 is documented with horizontal PressureWave tanks. Match pump current, settings and pressure limits before selection.

PressureWave datasheet ↗ | PumpWave pairing guide ↗ | South African catalogue ↗

02 / WATER TREATMENT SYSTEMS

Water treatment. *For everyday use.*

Whole-property filtration and drinking-water options, selected and presented by Charlie's Plumbing Supplies. Choose the system around your water quality, space and daily use.



WHOLE-PROPERTY FILTRATION

Purefer · 20-inch jumbo housing kits

TMW-HP08V-8B-KB · Three-stage wall mounted · 1" female BSP

Catalogue options: floor-standing **TMF-HP08V-8B-KB** and two-stage wall-mounted **DMW-HP08V-8B-KB**. Use matching 20" × 4.5" cartridges. Maximum assembly limits: 8.6 bar / 40°C. Illustration shows the product family.



HOUSEHOLD RO OPTION

AquaWave Classic · 75 GPD

AW-CLS family · 75G-220V-C powered version

Five-stage open-bracket drinking-water system. A separate RO storage tank is required and sold separately. Specify the locally suitable electrical supply and plug.

Unit: 37 × 27 × 47 cm · tank space additional

Inlet: 1.4–4 bar. Approx. 280 L/day rated production. Uses its own Classic replacement filter set.



ENCLOSED RO OPTION

AquaWave Premium · 75 GPD

AW-PRM system family

Five-stage cabinet-style system with a built-in 12 L RO storage tank. Available configurations require confirmation for the installation and local plug.

Cabinet: 25 × 38 × 30 cm · integrated tank

Inlet: 1.5–5 bar. Approx. 280 L/day rated production. The powered version accepts 100–240 V, 50/60 Hz.



CounterWave · Countertop

CW-WC-M21

Tap-connected sediment and carbon filtration for point-of-use drinking water. Uses the specified smaller M21 cartridge. Check tap and diverter compatibility.



Quatreau · SmartTap

Boiling + ambient · Final order code on quotation

SmartTap family illustration. Confirm the boiling/ambient configuration, local electrical supply and final kit contents. RO equipment is sold separately.

Compare the installation, not only the casing. Classic uses an open bracket plus a separate tank; Premium encloses its tank. Check the complete under-sink space. Actual RO production depends on water conditions. Sediment/carbon filtration alone does not establish untreated water as potable.

Specialist heating enquiries · HeatWave

Closed-loop, non-potable heating expansion: selected options are 24 L inline, and 60 / 100 / 150 L vertical. Potable hot-water expansion requires the separate ThermoWave range.

20" housing kits ↗ · Classic RO datasheet ↗ · Premium RO datasheet ↗ · CounterWave ↗ · SmartTap details ↗

03 / CONTROLS & ACCESSORIES

The right connections. *A working system.*

BSP installation accessories, pressure controls and service parts selected around the pressure-vessel and filtration ranges.

Product	Selected model / specification	Use with
Pressure switch	**APSW2F** · 1.4–2.8 bar **APSW3F** · 2.1–3.4 bar	Conventional pump + pressure-tank control. ¼″ female connection; confirm thread and electrical rating.
Five-way brass connector	**A5WYC-BSP** 1″ main / ¼″ auxiliary ports	Pressure tank, pump circuit, switch and gauge.
Three-way brass connector	**A3WYC-BSP** · 1″	Branch connections where required by the layout.
Brass non-return valve	**ACV-100-BSP** · 1″ FF	Backflow prevention in the appropriate pump-system position.
Pressure gauge	**A2PG7 / A2PG7B** 0–7 bar · ¼″ male	System monitoring. Choose front/back arrangement and verify connection thread.
Stainless-steel flex connector	**A70MFC-BSP / A80MFC-BSP / A100MFC-BSP**	1″ connections; 700 / 800 / 1,000 mm lengths. Elbow versions by enquiry.
MiniWave float switch	**AFS-5m-PVC** 5 m cable + counterweight	Tank-level switching or low-water interlock, subject to circuit design.
PumpWave 2 controller	**PUW2 family** 220–240 V / 50 Hz-compatible BSP version	Documented with horizontal PressureWave tanks. Confirm exact local order code and motor current limit.
PumpWave Plus controller	**PWP-220-B** Integrated 3 L tank · 1″ BSPP	Compact alternative control package. 8 bar / 35°C maximum water limits.
Jumbo-housing service parts	Matching O-rings, wrench, brackets and approved interconnections	20″ HP08V housings and selected two-/three-stage kits. Match each part to the assembly.
Tank mounting & service parts	Inline bracket; matching PressureWave feet, base or pump stand	Confirm the precise vessel model and mounting load before selection.

Two control approaches

Pressure switch + tank

PressureWave vessel, APS switch, gauge, five-way connector and flex connection. Add correctly selected low-water and motor protection.

Electronic control

PumpWave 2 with a compatible horizontal vessel, or PumpWave Plus with its own 3 L tank. Select one suitable control arrangement.

Controller limit: the PumpWave 2/Plus datasheet lists 220–240 V, 50/60 Hz, 1.47 kW, 10(8) A, 100 L/min maximum flow and 8 bar maximum pressure. Check the actual motor load and manufacturer instructions; matching kW alone is insufficient.

Complete the installation specification: isolation/bypass valves, a pressure-reducing valve where needed, fittings, pump and electrical protection depend on the job. A check valve is not an adjustable flow-control valve. An APS switch alone is not established as dry-run protection.

Accessory models & connections ↗ PumpWave specifications & installation ↗ Filter-housing compatibility ↗

04 / FILTERS & REPLACEMENT KITS

Filters that fit.
Service made simple.

20-inch jumbo cartridges for the main filtration range, plus the correct small-format replacement filters for each AquaWave RO system.

A / Main filtration · 20-inch × 4.5-inch jumbo

Cartridge	Exact model	Purpose
20 µm sediment	PP2020BB-G	Coarser particulate prefiltration.
10 µm sediment	PP2010BB-G	Intermediate sediment option.
5 µm sediment	PP2005BB-G	Finer sediment filtration.
1 µm sediment	PP2001BB-G	Application-specific finer filtration.
5 µm coconut-shell carbon	CB2005-JWE	Chlorine, taste and odour reduction.

20 µm sediment → 5 µm sediment → 5 µm jumbo carbon

Proposed three-stage sequence; confirm feed water and required flow. Carbon chlorine-capacity performance is quoted at 2 US gpm (about 7.6 L/min), not the sediment cartridge's higher nominal flow.

B / AquaWave RO · match the Classic or Premium system

Stage	Function	Classic replacement	Premium replacement
01	5 µm sediment prefilter	PP1005-G	K14-PP-WW
02	Granular activated carbon	M01-GT-BW	K14-GT-WW
03	BLOCKFREE carbon	M11-GT-WN	K14-BF-WW
04	75 GPD RO replacement membrane	MTW-1812-75	MTW-1812-75
05	Post-carbon polishing filter	K02-GT-WW-TP	K12-GT-WW

Classic annual filter kit

AWC-RFK-1YR

For AquaWave Classic. The Classic's smaller housing cartridges are retained as RO service parts.

Premium annual filter kit

AWP-RFK-1YR

For AquaWave Premium. Its inline filter set differs from the Classic set.

Confirm kit contents. Do not assume either annual kit includes the membrane. Replace according to the system manual, water quality and use. The sets above are specific to Classic and Premium, not a universal set for other RO models.

C / Other appliance service items

CounterWave cartridge	M21-GT-WN	5 µm sediment plus coconut-shell carbon, specified for CounterWave.
Optional MineralWave	K12-MW	Additional RO mineralising stage where approved for the chosen system and fittings.

Sediment specifications ↗ Carbon specifications ↗ Classic stages & kit ↗ Premium stages & kit ↗ CounterWave cartridge ↗