

# HydroPure 400

## TECHNICAL INFORMATION

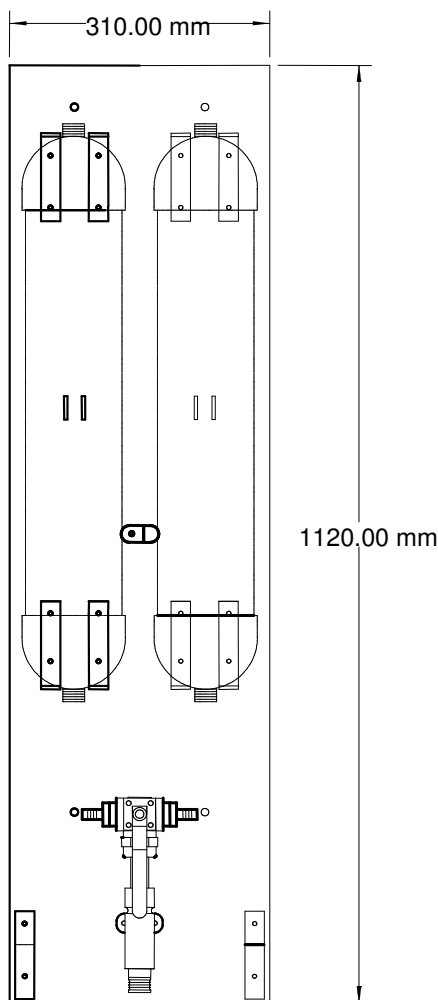
**IMPURITIES REDUCE BATTERY LIFE.** Battery water should be free from metallic impurities such as platinum, manganese, nickel, copper, iron and chloride salts because they can affect cell voltages and self discharge. Also to be limited are calcium and magnesium compounds found in hard water because these may cause mossing and dendrite growth through separators. Note that these impurities are DISSOLVED in the water and cannot be removed by conventional filters.

**REMOVES HARMFUL IMPURITIES.** Tap water is passed through a cartridge containing beds of cationic and anionic resins which electrostatically remove impurities. The result is very pure water. When the cartridge becomes exhausted it is simply replaced with a fresh one in seconds using quick connects.

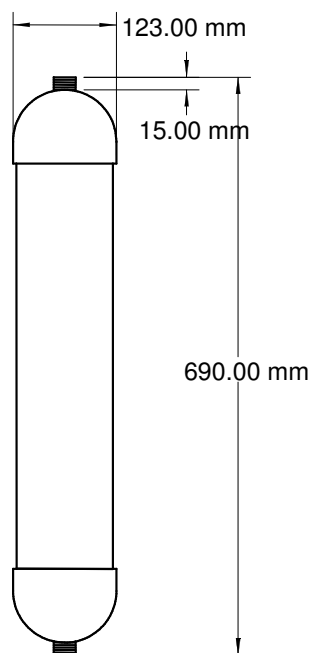
**MONITORS WATER PURITY.** Testing tap water chemically is too complicated. A more practical measure for water purity is resistivity because the electrical resistance of water is very sensitive to the amount of dissolved solids it contains. The **HydroPure** includes a sophisticated resistivity indicator that can detect when a cartridge needs replacing. The purity light is battery powered so does not need to be connected to the mains electrical supply. The battery lasts for a minimum of 1 year.

**SIMPLE INSTALLATION.** Installation is completed by attaching the mounting plate to the wall with two bolts and then connecting the input water supply. The **HydroPure** operates at full mains pressure which makes it possible to dispense pressurised pure water directly from the deioniser.

Backplate Dimensions



Cartridge Dimensions



Cartridge Capacity Table

TDS of Customer Incoming Water		Capacity of HydroPure 400 (2 x Cartridges)		
Conductivity $\mu\text{S/cm}$	Mg/Litre	Maximum Litres to process	Average Litres to process	Minimum Litres to Process
750	500	1180	1084	988
675	450	1310	1204	1098
600	400	1474	1354	1234
525	350	1684	1548	1412
450	300	1966	1806	1646
375	250	2358	2168	1976
300	200	2948	2708	2470
225	150	3932	3612	3292
150	100	5896	5418	4938
135	90	6552	6020	5484
120	80	7370	6772	6174
105	70	8424	7740	6496
90	60	9828	9030	8232
75	50	11,792	1036	9878
60	40	14,742	13,544	12,346
45	30	19,656	18,058	16,462
30	20	29,482	27,088	24,692

### SPECIFICATION

<b>Flow Rates</b>	
Maximum intermittent flow	16 litres/min (3.5 imp galls/min)
Maximum continuous flow	4 litres/min (0.88 imp galls/min)
<b>Output</b>	
Maximum output (input purity 50ppm)	11,520 litres (1280 imp gallons)
Typical output (input purity 120ppm)	4800 litres (530 imp gallons)
Poor water output (input purity 250ppm)	2300 litres (250 imp gallons)
Maximum input pressure	80 psi
Cartridge resin volume	9 litres (550 Cu. in.)
<b>Dimensions</b>	
Mounting plate dimensions	1120 x 310 mm
Cartridge dimensions	685 x 115 mm
<b>Indication</b>	
Purity light indication water OK	steady green flash
Purity light indication water BAD	double red flash
Purity light OK max threshold	50 ppm
<b>Electrical</b>	
Battery life expected	Min 12 months
Battery Type	2 x LR20 (D size) 3V
<b>Hose</b>	
Input	Bore-9.5mm length-3 meters
Output	Bore-9.5mm length-6 meters
<b>Intended use</b>	
filling watering carts	
(with supplied flow restrictor)	

