

# "Make buying distilled water a thing of the past"

The HydroPure is a low cost deioniser system that makes pure water straight from the tap!

Most industrial batteries need to be topped up with water regularly. Tap water is rarely suitable as it often contains a large amount of dissolved solids that can be damaging to your battery. Purchasing bottled water can be costly and inconvenient.

Our **Hydro**Pure deioniser turns ordinary tap water into deionised water that is perfect for watering batteries. The low cost deioniser system is not just a filter, which only removes particles, but a real ion-exchange medium which electrostatically removes dissolved impurities. The purity of the water from the **Hydro**Pure is comparable with distilled water and each cartridge can produce approx 2400 litres (depending on the quality of the input water).

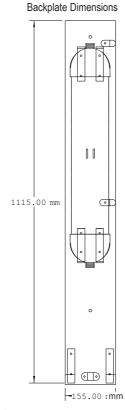
The wall mounted system is easy to install. Simply bolt to the wall and connect to the mains water supply. Featuring a battery powered "magic eye", that constantly monitors the conductivity of the output water and clearly signals when it is time to change the cartridge. The cartridge snaps in place in seconds and is non toxic so it can be disposed of easily. This system provides pure water on demand and eliminates the need for purchasing battery water in bulky storage containers.

Using deionised water will protect the life of a battery. The **Hydro**Pure is the most cost effective and simple way to make sure the water used to fill batteries is as pure as it needs to be.

## TECHNICAL INFORMATION

#### Cartridge Capacity Table

TDS of Customer Incoming Water		Capacity of HydroPure 300		
Conductivity µS/cm	Mg/Litre	Maximum Litres to process	Average Litres to process	Minimum Litres to Process
750	500	590	542	494
675	450	655	602	549
600	400	737	677	617
525	350	842	774	706
450	300	983	903	823
375	250	1179	1084	988
300	200	1474	1354	1235
225	150	1966	1806	1646
150	100	2948	2709	2469
135	90	3276	3010	2742
120	80	3685	3386	3087
105	70	4212	3870	3248
90	60	4914	4515	4116
75	50	5896	5418	4939
60	40	7371	6772	6173
45	30	9828	9029	8231
30	20	14741	13544	12346



#### Cartridge Dimensions



### **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.

#### **SPECIFICATION**

Flow Rates			
Maximum intermittent flow	8 litres/min (1.75 imp galls/min)		
Maximum continuous flow	2 litres/min (0.44 imp galls/min)		
Output			
Maximum output (input purity 50ppm)	5760 litres (1280 imp gallons)		
Typical output (input purity 120ppm)	2400 litres (530 imp gallons)		
Poor water output (input purity 250ppm)	1150 litres (250 imp gallons)		
Maximum input pressure	80 psi		
Cartridge resin volume	4.5 litres (275 Cu. in.)		
Dimensions			
Mounting plate dimensions	1118 x 152 mm		
Cartridge dimensions	685 x 115 mm		
Indication			
Purity light indication water OK	steady green flash		
Purity light indication water BAD	double red flash		
Purity light OK max threshold	50 ppm		
Electrical			
Battery life expected	Min 12 months		
Battery Type	2 x LR20 (D size) 3V		
Hose			
Input	Bore-9.5mm length-3 meters		
Output	Bore-9.5mm length-6 meters		
Intended use	PS watering guns (directly)		
	filling watering carts		
	(with supplied flow restrictor)		



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