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# Philapdelphia Scientific Water Deionizer system

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## Water Deionizer System

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Hard water in your water supply may be causing poor battery performance. Metallic impurities in water can affect cell voltages and increase self-discharge, resulting in shortened battery run time and reduced battery life. The traditional method to avoid water impurities is to use distilled water, an expensive and inconvenient proposition. Using deionized water is a simple and effective way to maximize battery life.

### Easy to use

- Comes with everything you need to make pure water from the tap
- Operates at full-line pressure to dispense pure water directly from the deionizer
- Quick cartridge replacement requires no tools
- 6 m output hose allows maximum watering flexibility and convenience
- Optional Watering Gun lets you fill a battery directly from the deionizer

### High capacity

- Cartridge is rated for 2300 litres or 600 gallons of pure water\*
- Capacity varies with purity of incoming water. See Purity Chart

### Exclusive battery-operated purity light

- Dual color light indication signals when it's time to change the cartridge
  - Green light means water quality is OK
  - Red light means it is time to change cartridge
  - No light means batteries need to be changed
- Includes 2 D-cell batteries that will last for 2 years
- No need to mount near AC power source

### Easy installation

A mounting plate with hose hanger is provided for easy installation. The cartridge has standard hose fittings and connects in seconds to the input and output hoses with quick-connect couplings. No plumber or maintenance department is required. Cartridge replacement takes just seconds – and disposal is easy because cartridge contents are non-toxic.


### Pressurized system

Unlike some lab-type systems, the WD2000 cartridge takes full-line pressure up to 5,5 bar (80 psi). So the water flow is fast enough to use directly with the Watering Gun.

### Low cost

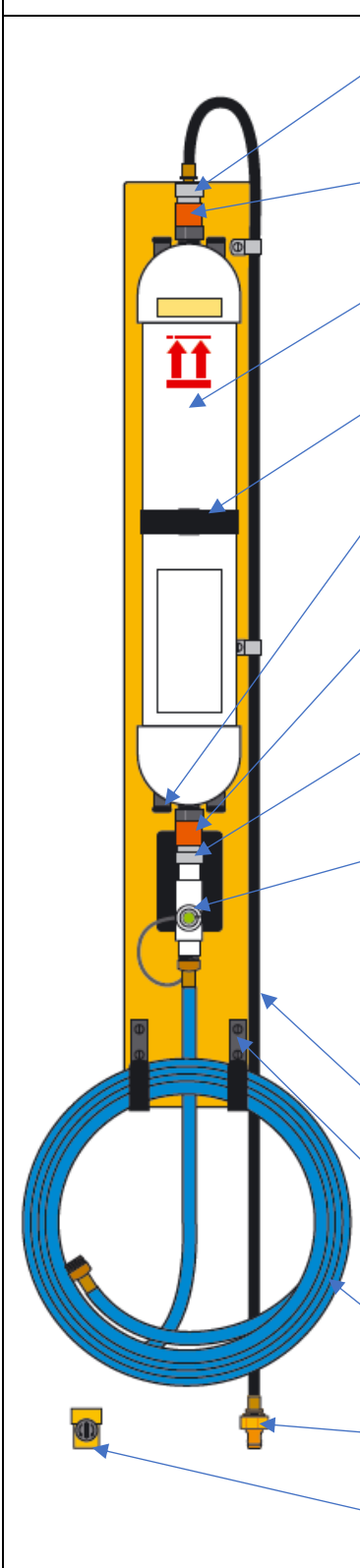














Cartridges are available for a fraction of the cost of distilled water, enabling battery users to produce their own pure water for less money than it would cost to buy it.



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<b>Specifications</b>		
		
Order reference	WD2000	
Flow Rate – with provided restrictor	2 lpm (0.5 gpm)	
Purity Light Power Source (included)	2 D-cell Batteries	
Life Estimation	2 years	
Purity Light Setting	50 ppm	
Dimensions	Mounting Plate	1115 mm x 155 mm (44" x 6")
	Disposable Cartridge	690 mm x 123 mm (27" x 4.5")
	Input Hose	9,5 mm x 3m (3/8" x 10')
	Output Hose	9,5 mm x 6m (3/8" x 20')
Maximum pressure tap water	5,5 bar (80 psi)	

<b>Purity Chart (= capacity in function of purity of incoming water)</b>					
↓Purity of tap water↓	Total Dissolved Solids*		Conductivity*	Cartridge Capacity	
	PPM	Grains	μS/cm	Litres	U.S. Gallons
Good	20	1.17	30	13.627	3600
	50	3	75	5.451	1440
	75	4	112,5	3.634	960
Average	100	6	150	2.725	720
	125	7.3	187,5	2.180	576
	150	9	225	1.817	480
Poor	200	12	300	1.363	360
	250	15	375	1.090	288
	300	17.5	450	908	240

\*to be provide by water company or to be measured

Spare parts			
	WD-PS-120	Male coupling threaded inside 3/4	
	WD-PS-125	Quick disconnect female - female thread	
	WDFIL2000	Cartridge for WD2000 * to be disposed as ordinary trash * cartridges have a five year shell life from date of manufacture	
	WD-PS-170	Mounting Strap	
	WD-PS-181	Bracket, straight, 2 pack	
	WD-PS-125	Quick disconnect female - female thread	
	WD-PS-120	Male coupling threaded inside 3/4	
	WD-PS-160DC	Purity Light Tee Assembly, DC battery incl.	
	WD-PS-191	Purity Light, Complete Tee Assembly, DC battery incl. (WD-PS160DC + WD-PS120 + WD-PS-125)	
	WD-PS-140	Input Hose, 3m (10')	
	WD-PS-ACC-035	Bracket Hose Hanger, 2 Pack	
	WD-PS-150	Output Hose, 6m (20')	
	WD-GUN-GF	Quick Connect Male	
	WD-PS-190	Flow Restrictor	

<b>Accessories</b>		
WD-PS-121	Female coupling with male thread	
WCA-FA-ACC003C	Adjustable filling adapter, set 0.65 Bar - coupling incl. * to couple the deionizer directly onto an automatic filling system * also order WD-PS-121 to couple to de deioniser	
WGU-XPS	Universal watering gun * also order WD-PS-121 to couple to de deioniser	