

Water Deionizer System™

Maximize battery performance with pure water from the tap

The Water Deionizer System™ is one of a family of Lean Battery Room products from Philadelphia Scientific. It saves money in your warehouse or DC by eliminating waste and increasing productivity.

Hard water in your water supply may be causing poor battery performance. Metallic impurities in water can poison the battery, affect cell voltages and increase self-discharge, all of which can result in shortened battery run time and reduced battery life. Not only does this waste money in your operation, but time as well. 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
- 20-ft 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 600 gallons of pure water*

*Capacity varies with purity of incoming water. See table on reverse side

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
 - Keeps electricity and water separate and your employees safe

Convenient and cost effective, the Water Deionizer System™ enables you to maintain battery capacity and long life.

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 PS-300 cartridge takes full-line pressure up to 80 psi. So the water flow is fast enough to use directly with the Battery 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.

Exclusive battery-operated purity light

A conductivity meter continuously monitors the output water and signals when it is time to change the cartridge. Battery operation eliminates the need for AC power, making system mounting flexible, convenient and safe. Two standard D-cell batteries are included and will last for 2 years.

High capacity

A single cartridge will produce an average of 600 gallons of purified water. The amount will vary with the quality of the incoming tap water — from as much as 1,500 gallons to as little as 250. Most battery manufacturers recommend that water should have no more than 50 parts per million total dissolved solids in order to get full battery life.

Watering gun available

An optional battery watering gun is available, enabling a battery to be filled directly from the deionizer.



Deionizer system being used to fill Hydrofill watering cart.

	Purity of Incoming Tap Water		Output of a Single Deionizer Cartridge	
	TDS (PPM)	Conductivity (µS/cm)	Gallons	Liters
Good	20	30.0	3,600	13,627
	50	75.0	1,440	5,451
	75	112.5	960	3,634
Average	100	150.0	720	2,725
	125	187.5	576	2,180
	150	225.0	480	1,817
Poor	200	300.0	360	1,363
	250	375.0	288	1,090
	300	450.0	240	908

SPECIFICATIONS

Flow Rate

0.5 gpm (1.9 lpm) (with provided restrictor)

Purity Light Power Source

2 D-Cell Batteries (included)

Life Estimate: 2 Years

Purity Light Setting

50 ppm total dissolved solids

Dimensions

Mounting plate 44" x 6" (111.8 cm x 15.2 cm)

Disposable Cartridge 27" x 4.5" (68.6 cm x 11.4 cm)

Hose Dimensions

3/8" x 10' (0.95 cm x 3.1 m) (input), 3/8" x 20' (0.95 cm x 6.1 m) (output), garden hose thread fittings