



Commercial Systems

1 to 1,000 GPM 35,000 ppm max
Purify to Potable Water Standards

The Problem

Minerals in the water (step1) are the major components of TDS (total dissolved solids). These minerals need to be removed on many applications, or they will form deposits.

The Electronic Water Purifier makes patented technology available to generate a Deionized quality water.

How it Works

Electrodes used are made from activated carbon and other materials. These electrodes are layered into a cell casing. A DC power supply is applied across the electrodes. The individual electrodes are charged with different polarities. The minerals in the water have polarity charges, (step 2) which are attracted to the opposite polarity of the electrode, thus removing the minerals from the water. These minerals are electrochemically absorbed on the surface of the electrode creating the pure water.

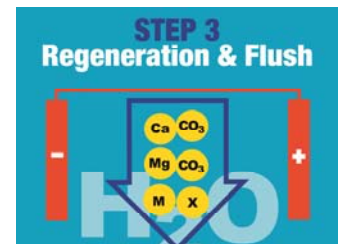
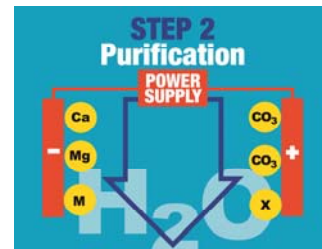
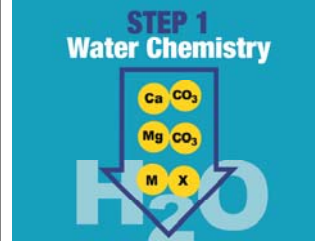
When sufficient minerals are deposited on the electrodes and conductivity increases beyond the set point desired, the electrodes go through regeneration steps. (Step 3) The contaminants fall off the electrode after a flush valve opens discharging the contaminants removed. Upon completion of this cycle,

Benefits

- Simple Operation & Low Operating Costs
- No chemicals
- No pretreatment needed like membranes and media
- 80% recovery
- Removes more contaminants than any single technology
- Small foot print
- World Class CDI Technology Plus Smart Controls
- 6 Log Disinfection of microbes

Contaminants Removed

- Arsenic
- Lead
- Nitrates
- Metals
- Perchlorate
- Sodium Chloride
- Sulfates
- Some COD's



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Displays

- Conductivity out
- Flow is manual
- Operational Model

Features

- Automatic cleaning
- Continuous operation

Modules can be Rack Mounted To build larger Flow Systems with Multiple modules.

Modules of 2 or 4 cells



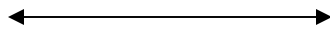
Specifications

Single Stage Units			
Model	P2	P4	P8
Total Flow (GPM)	2	4	8
Feed Water gpm (lph)	2.2 (500)	4.4 (1,000)	8.8 (2,000)
Number of Cells	2	4	8
Operating Parameters			
Flow Production Water GPD	2,375	4,750	9,500
Flow M3/day	9.0	18.0	36.0
Ion Rejection @ 1,000 ppm	80%	80%	80%
Ion Rejection @ 2,500 ppm	90%	90%	90%
Recovery	75%	75%	75%
Temperature	40 to 100	40 to 100	40 to 100
PH	4 to 9	4 to 9	4 to 9
Feed Pressure psi	12	12	12
Unit Dimensions			
W x D x H (ft)	1.33 ft x 1.33 ft x 2.33 ft	1.33 ft x 1.33 ft x 2.33 ft	1.33 ft x 1.33 ft x 3.33 ft
W x D x H (mm)	400mm x 400mm x 710 mm	400mm x 400mm x 710 mm	400mm x 400mm x 1016 mm
Shipping Weight lbs. (kg)	125 (56)	150 (68)	275 (125)
Electrical Data			
Electrical Voltage-single phase 50/60 hz	220	220	220
Amperage load-Peak @240 vac 1phase 2 seconds	7.5	15	30
Average amp load @ 240 VAC 1 phase	4	7.5	15

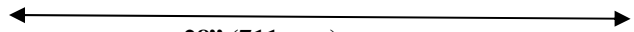
Front View



Side view



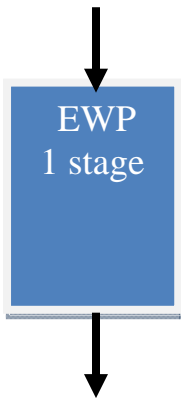
19" (483 mm)



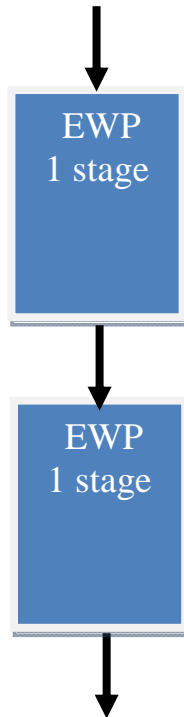
28" (711 mm)

So easy to Configure EWP-Build in Series for higher Conductivity

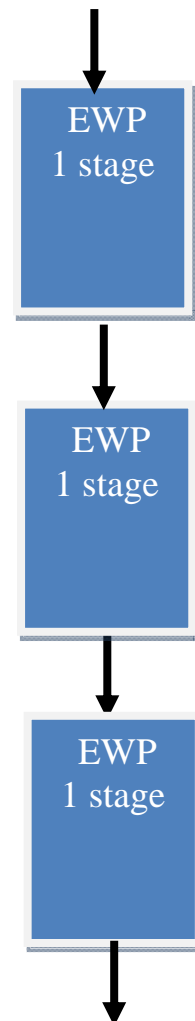
1,000 ppm



3,000 ppm

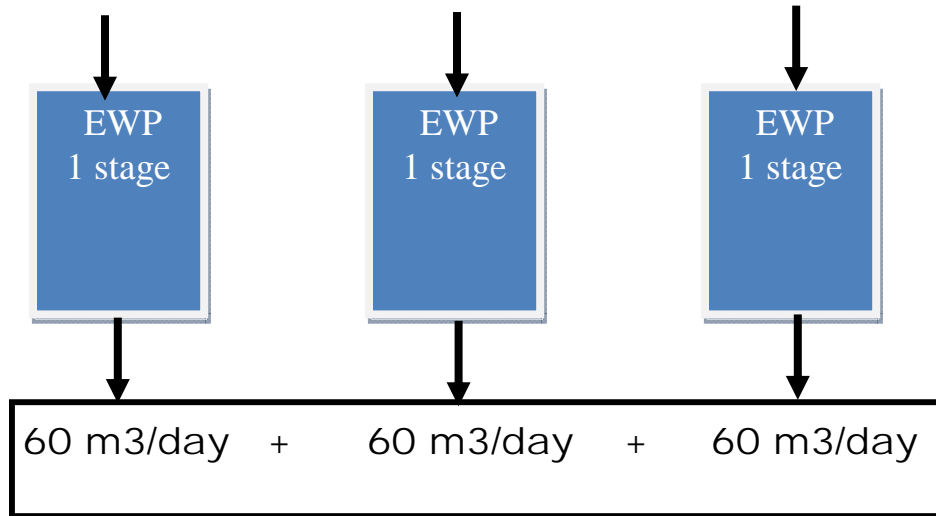


6,000 ppm

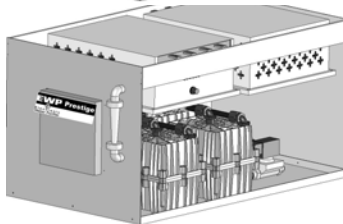
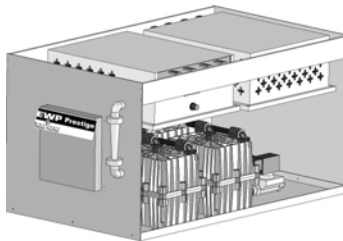
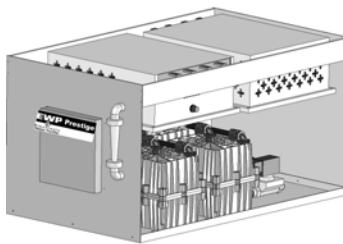


So easy to get higher flow—build in parallel

An Example using Model P4—how to build 60 m³/day system



Why Not Solar Power: Systems are available.
P4 uses 1400 Watts power



Rack mount into a system

We build the systems and ship them completely assembled