



# A Salt-less Water Softener + more

## Whole House Model 500 gpd (1,875 LPD)

### The Problem

Minerals in the water 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 pending technology available to lower total dissolved solids in the 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 are attracted to the opposite polarity of the electrode. These minerals are electrochemically absorbed on the surface of the electrode creating the purified water.

When sufficient minerals are deposited on the electrodes, the minerals are released during a regeneration step. The contaminants fall off the electrode after a flush valve opens discharging the contaminants removed

### Benefits

- Simple Operation & Low Operating Costs
- No chemicals and no frequent replacement parts
- No pretreatment needed like membranes and media
- 80% to 95%+ TDS reduction
- 75% recovery (25% waste water)
- Removes more contaminants than any single other technology
- Compact size

### General Specifications

Flow Size: WH-1 : 500 GPD  
 Limits:TDS WH-1. 1,000 ppm or WH-2. 2,500 ppm  
 Current: 2 amps @110 VAC, or 1 amps @ 220 VAC  
 Size: unit 16”d x 12”w x 18” h

Tank Size: (optional) 150 (180 L) gallons  
 Pump (optional) 60 psi @ 8 gpm

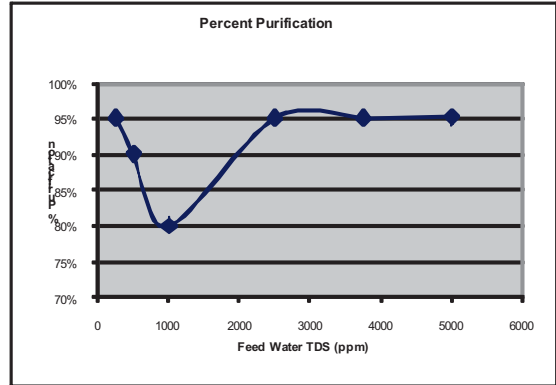
### Applications

- Whole House Water Purifier
- Commercial Store

### Typical Contaminants Removed

Hardness	Arsenic	Chrome	Lead
Fluoride	Nitrates	Iron	per chlorate

### Lowerts TDS + more



### Features

- Durable Plastic Cabinet
- Semi automatic Citric Acid clean
- Dial-4-Taste
- Easy to operate
- No service calls—low maintenance
- No expensive parts to replace each year

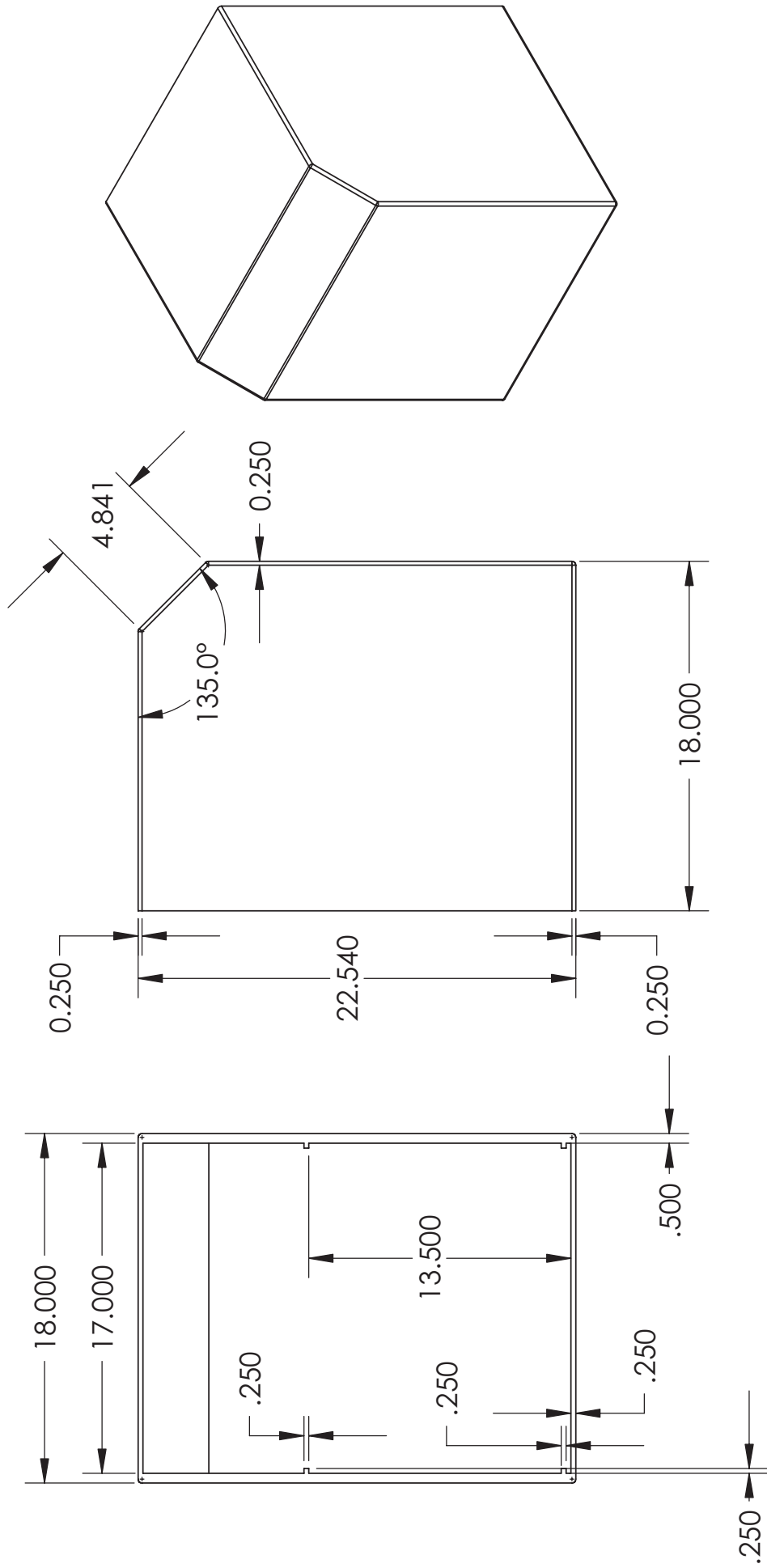




Side view (all connections come out this side)



Back View ( all sde panels comes off for easy access and repair)

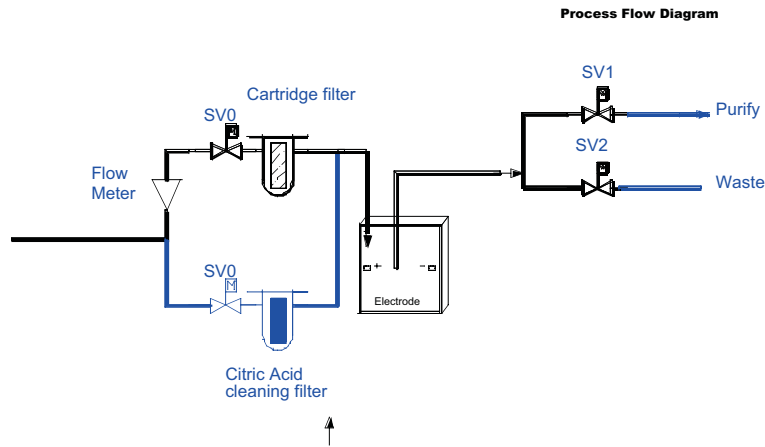


UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES			
TOLERANCES:		DRAWN	
FRACTIONAL ±		CHECKED	
ANGULAR: MACH ± BEND ±		ENG APPR.	
TWO PLACE DECIMAL ±		MFG APPR.	
THREE PLACE DECIMAL ±		Q.A.	
INTERPRET GEOMETRIC TOLERANCING PER:		COMMENTS:	
MATERIAL			
FINISH			
NEXT ASSY			
APPLICATION			
DO NOT SCALE DRAWING			

**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <INSERT COMPANY NAME HERE>. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <INSERT COMPANY NAME HERE> IS PROHIBITED.

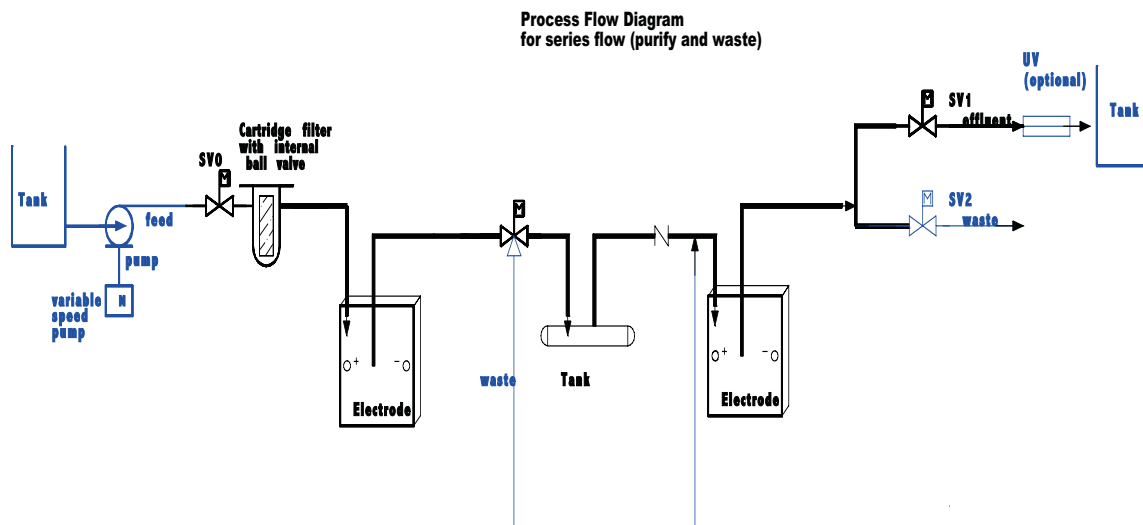
SIZE DWG. NO. REV  
**A-Cell Housing**  
 SCALE: 1:1 WEIGHT: SHEET 1 OF 1

## Process Flow Diagram single stage



<p>Sabrex, Inc.</p> <p>P &amp; I D Electronic Water Purifier</p> <p><b>EWP 1 stage</b> 12/2005 R.Atlas</p>
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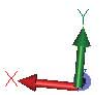
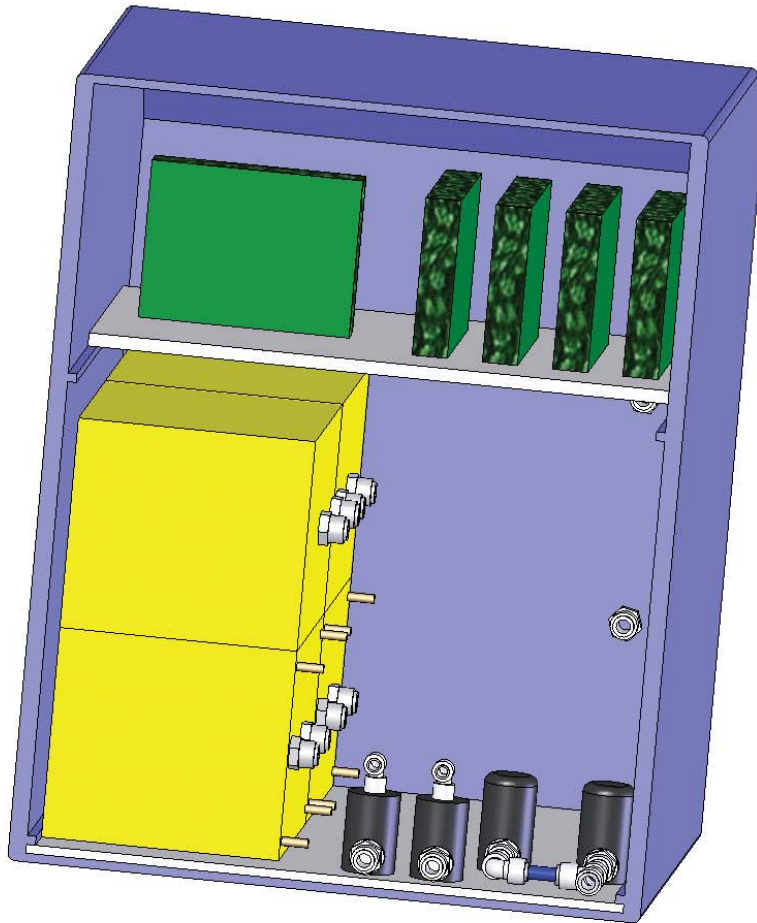
## 2 Stage (Cells) in Series



<p>Sabrex, Inc.</p> <p>P &amp; I D Electronic Water Purifier</p> <p><b>EWP 2 stage</b> 8/2005 R.Atlas</p>
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### Process uses

1. single power supplies for each cell
2. series purify through the tank (which holds 1 volume for purification)
3. series waste water flush—bypasses the collection tank to purify in series
4. each stage requires 2 to 5 psi pressure



Model		Wholehouse	Wholehouse
		WH-1	WH-2
purification Flow instantaneous			
purification Flow average	GPD	500 GPD	500 GPD
purified water produced	GPD	500 GPD	500 GPD
Number of Cells		1	2
Ion Rejection @ max TDS		80%	80% to 90%

**Operating Parameters**

Recovery		75%	75%
Temperature	deg F	40 to 100	40 to 100
PH		4 to 9	4 to 9
Max. TDS	PPM	1000	2500
Feed Pressure	PSIG	20	40

**Electrode**

Electrode Cell Thickness	In	6	6
Length x width	In	6" x7"	6" x7"

**Unit**

**Dimensions**

W x D x H	In	18" x 18" x 30"	18" x 18" x 22.5"
min. Tank size recommended	gallons	150	150
Shipping Weight	lbs.	100	100

**Electrical**

**Data**

Electrical Voltage-single phase 50/60 hz	VAC*	220	120/220
Amperage load-Peak @220 vac 1phase	amps	0.75	3/1.5