

# EXCALIBUR WATER SYSTEMS

## COMMERCIAL WATER SOFTENER

### SYSTEM DESIGN DATA & SPECIFICATIONS

**Model: EWS SD175**

**Water Softener 1.0" Duplex Alternating 75,000 Capacity**

#### Water Softener Operating Parameters

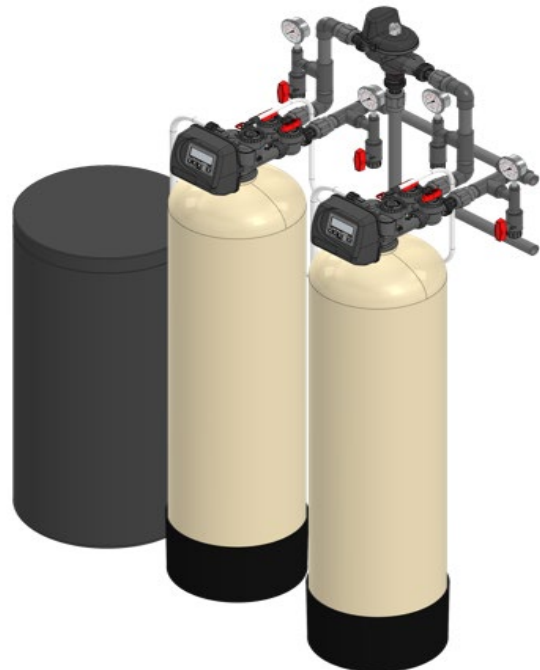
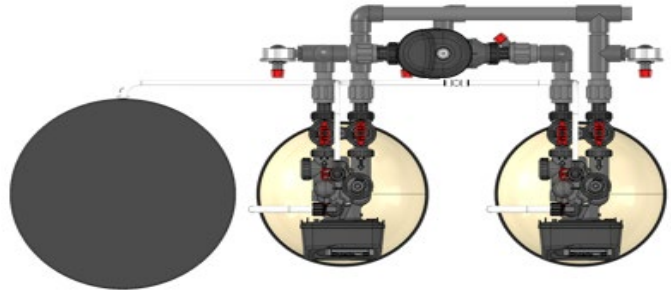
Minimum Flow Rate, gpm	: 1.8
Critical Flow Rate, gpm	: 7.5
Service Flow Rate, gpm	: 11.0
Flow Rate 15psi ΔP, gpm	: 19.0
Flow Rate 25psi ΔP, gpm	: 25.0
Backwash Flow Rate, gpm	: 4.2
Capacity @15lbs/ft <sup>3</sup> , kgr	: 75.0
Capacity @10lbs/ft <sup>3</sup> , kgr	: 67.5
Capacity @6lbs/ft <sup>3</sup> , kgr	: 50.0
Capacity Max System, kgr	: 150.0
Salt Usage @ 15lbs/ft <sup>3</sup> , lbs	: 37.5
Salt Usage @ 10lbs/ft <sup>3</sup> , lbs	: 25.0
Salt Usage @ 6lbs/ft <sup>3</sup> , lbs	: 15.0
Resin Qty, ft <sup>3</sup>	: 2.5
#20 Gravel Qty, lbs	: 35.0
Distributor Size, in	: 1.05
Drain Line Size, in	: 0.75
Brine Line Size, in	: 0.375

#### Miscellaneous Design Data

Mineral Tank Size, in.	: 13x54
Freeboard, in.	: 14.0
Bed Depth, in	: 32.5
Brine Tank Size, in.	: 18x40
Max. Salt Load, lbs.	: 450 (Dry)
Total Regeneration Time, min.	: 97
Operating Pressure, psi	: 40-110
Operating Temperature, ° F	: 40-110
Shipping Weight, lbs.	: 400
Operating Weight, lbs.	: 1,300
Space Req'd in, L x W x H	: 60x28x74

#### Electrical Specifications

Supply Voltage	: 120VAC
Supply Frequency	: 60 Hz
Output Voltage	: 15VDC
Output Current:	: 500 mA



\* Pipe and fittings shown not in scope