



# EXCALIBUR WATER SYSTEMS

## COMMERCIAL WATER SOFTENER

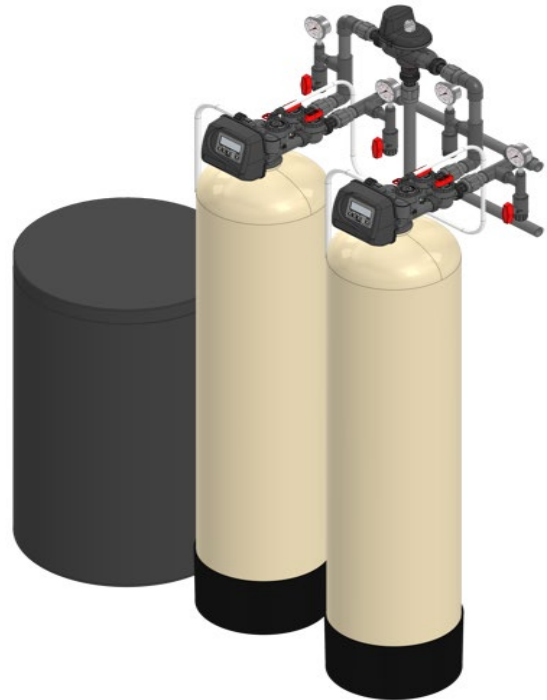
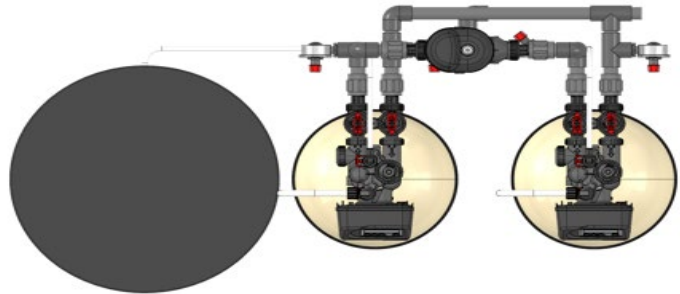
### SYSTEM DESIGN DATA & SPECIFICATIONS

**Model: EWS SD12590**

**Water Softener 1.25" Duplex Alternating 90,000 Capacity**

**Water Softener Operating Parameters**

Minimum Flow Rate, gpm	: 2.1
Critical Flow Rate, gpm	: 8.5
Service Flow Rate, gpm	: 13.0
Flow Rate 15psi ΔP, gpm	: 24.0
Flow Rate 25psi ΔP, gpm	: 33.0
Backwash Flow Rate, gpm	: 5.3
Capacity @15lbs/ft <sup>3</sup> , kgr	: 90.0
Capacity @10lbs/ft <sup>3</sup> , kgr	: 81.5
Capacity @6lbs/ft <sup>3</sup> , kgr	: 60.0
Capacity Max System, kgr	: 180.0
Salt Usage @ 15lbs/ft <sup>3</sup> , lbs	: 45.0
Salt Usage @ 10lbs/ft <sup>3</sup> , lbs	: 30.0
Salt Usage @ 6lbs/ft <sup>3</sup> , lbs	: 18.0
Resin Qty, ft <sup>3</sup>	: 3.0
#20 Gravel Qty, lbs	: 45.0
Distributor Size, in	: 1.32
Drain Line Size, in	: 0.75
Brine Line Size, in	: 0.375



**Miscellaneous Design Data**

Mineral Tank Size, in.	: 14x65
Freeboard, in.	: 24.0
Bed Depth, in	: 33.6
Brine Tank Size, in.	: 24x50
Max. Salt Load, lbs.	: 900 (Dry)
Total Regeneration Time, min.	: 100
Operating Pressure, psi	: 40-110
Operating Temperature, ° F	: 40-110
Shipping Weight, lbs.	: 500
Operating Weight, lbs.	: 1,800
Space Req'd in, L x W x H	: 66x30x85

**Electrical Specifications**

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

*\* Pipe and fittings shown not in scope*