



# EXCALIBUR WATER SYSTEMS

## COMMERCIAL WATER SOFTENER

### SYSTEM DESIGN DATA & SPECIFICATIONS

**Model: EWS S145**  
**Water Softener 1.0" Simplex 45,000 Capacity**

**Water Softener Operating Parameters**

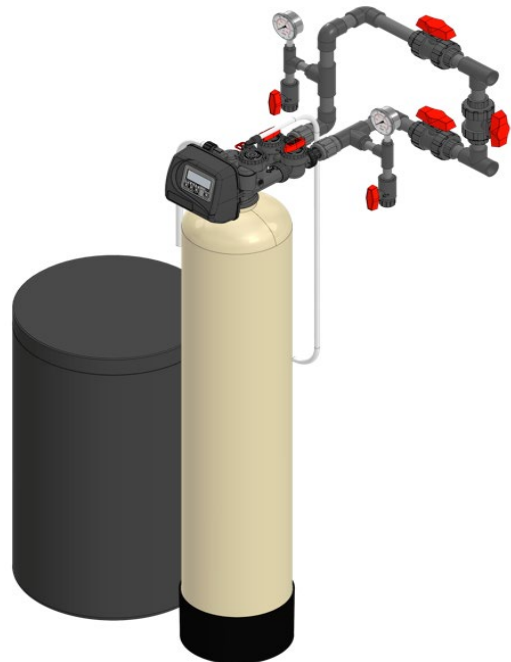
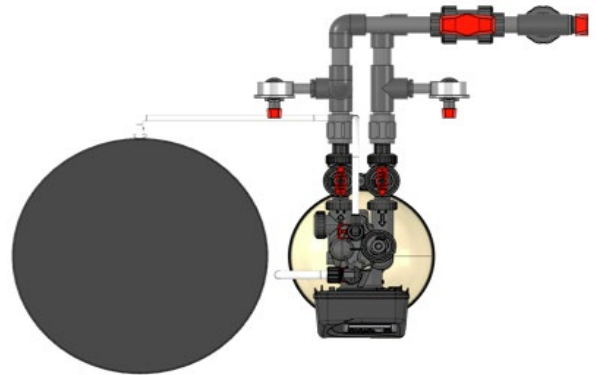
Minimum Flow Rate, gpm	: 1.1
Critical Flow Rate, gpm	: 4.5
Service Flow Rate, gpm	: 6.5
Flow Rate 15psi ΔP, gpm	: 14.0
Flow Rate 25psi ΔP, gpm	: 21.0
Backwash Flow Rate, gpm	: 2.7
Capacity @15lbs/ft <sup>3</sup> , kgr	: 45.0
Capacity @10lbs/ft <sup>3</sup> , kgr	: 40.5
Capacity @6lbs/ft <sup>3</sup> , kgr	: 30.0
Capacity Max System, kgr	: 45.0
Salt Usage @ 15lbs/ft <sup>3</sup> , lbs	: 22.5
Salt Usage @ 10lbs/ft <sup>3</sup> , lbs	: 15.0
Salt Usage @ 6lbs/ft <sup>3</sup> , lbs	: 9.0
Resin Qty, ft <sup>3</sup>	: 1.5
#20 Gravel Qty, lbs	: 16.0
Distributor Size, in	: 1.05
Drain Line Size , in	: 0.75
Brine Line Size , in	: 0.375

**Miscellaneous Design Data**

Mineral Tank Size, in.	: 10x54
Freeboard, in.	: 14.6
Bed Depth, in	: 33.0
Brine Tank Size, in.	: 18x33
Max. Salt Load, lbs.	: 350 (Dry)
Total Regeneration Time, min.	: 90
Operating Pressure, psi	: 40-110
Operating Temperature, ° F	: 40-110
Shipping Weight, lbs.	: 150
Operating Weight, lbs.	: 635
Space Req'd in, L x W x H	: 40x29x70

**Electrical Specifications**

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



*\* Pipe and fittings shown not in scope*