



# EXCALIBUR WATER SYSTEMS

## COMMERCIAL WATER SOFTENER

### SYSTEM DESIGN DATA & SPECIFICATIONS

**Model: EWS S2MQC180**  
**Water Softener 2.0" QC Simplex 180,000 Capacity**

**Water Softener Operating Parameters**

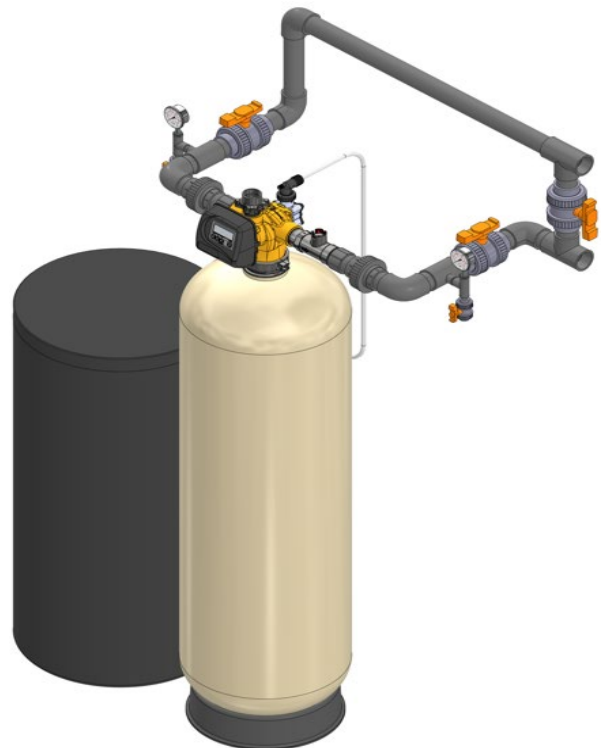
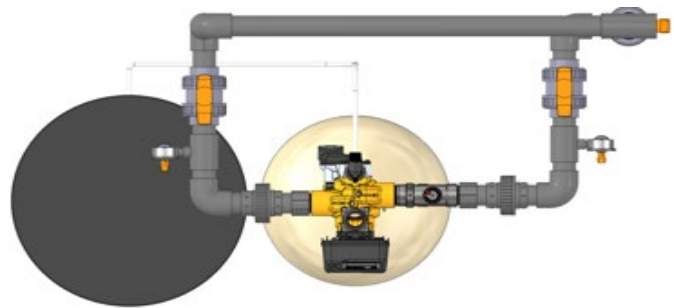
Minimum Flow Rate, gpm	: 3.5
Critical Flow Rate, gpm	: 14.0
Service Flow Rate, gpm	: 21.0
Flow Rate 15psi ΔP, gpm	: 51.0
Flow Rate 25psi ΔP, gpm	: 66.0
Backwash Flow Rate, gpm	: 9.0
Capacity @15lbs/ft <sup>3</sup> , kgr	: 180.0
Capacity @10lbs/ft <sup>3</sup> , kgr	: 162.0
Capacity @6lbs/ft <sup>3</sup> , kgr	: 120.0
Capacity Max System, kgr	: 180.0
Salt Usage @ 15lbs/ft <sup>3</sup> , lbs	: 90.0
Salt Usage @ 10lbs/ft <sup>3</sup> , lbs	: 60.0
Salt Usage @ 6lbs/ft <sup>3</sup> , lbs	: 36.0
Resin Qty, ft <sup>3</sup>	: 6.0
#20 Gravel Qty, lbs	: 100.0
Distributor Size, in	: 2.0
Drain Line Size, in	: 1.5
Brine Line Size, in	: 0.5

**Miscellaneous Design Data**

Mineral Tank Size, in.	: 18x65
Freeboard, in.	: 15.2
Bed Depth, in	: 40.7
Brine Tank Size, in.	: 24x50
Max. Salt Load, lbs.	: 900 (Dry)
Total Regeneration Time, min.	: 120
Operating Pressure, psi	: 40-110
Operating Temperature, ° F	: 40-110
Shipping Weight, lbs.	: 710
Operating Weight, lbs.	: 2,235
Space Req'd in, L x W x H	: 66x34x90

**Electrical Specifications**

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



*\* Pipe and fittings shown not in scope*