



Excalibur Water Systems

Commercial/Industrial Products

SYSTEM DESIGN DATA & SPECIFICATIONS

Model: EWS SD3900 Duplex 3" Water Softener 900,000 Capacity

Water Softener Operating Parameters

Flow Pressure Drop @ 15psi, gpm	: 186.0
Flow Pressure Drop @ 25psi, gpm	: 240.0
Continuous Max Flow Rate, gpm	: 150.0
Progressive Flow, gpm	: 300.0
Minimum Flow Rate, gpm	: 19.2
Backwash Flow Rate Req'd	: 45.0
Capacity @ 10lbs/ft ³ , kgr	: 810.0
Capacity @ 15lbs/ft ³ , kgr	: 900.0
Salt Usage # 10lbs/ft ³ , lbs	: 300.0
Salt Usage # 15lbs/ft ³ , lbs	: 450.0
Resin Qty, ft ³	: 30.0
#20 Gravel Qty, lbs	: 450
1/4"X1/8" Gravel Qty, lbs	: 250
Distributor Size, in	: 2.0
Drain Line Size, in	: 2.0
Brine Line Size, in	: 1

* Continuous maximum flow rate refers to soft water feed to boilers, heat exchangers, reverse osmosis systems or any other equipment sensitive to hard water scaling flow rate not exceeding 5gpm/ft³

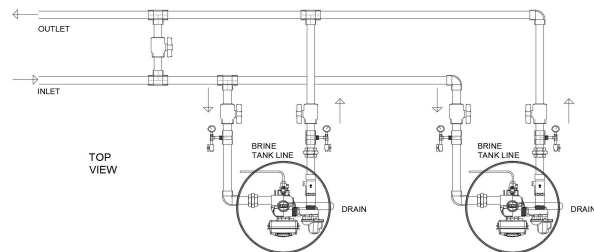
Miscellaneous Design Data

Mineral Tank Size, in.	: 42x72
Tank Area, ft ²	: 9.62
Freeboard, in.	: 18.5
Bed Depth, in.	: 37.4
Brine Tank Size, in.	: 50x60
Max. Salt Load, lbs.	: 4,500 (Dry)
Total Regeneration Time, min.	: 120
Operating Pressure, psi	: 40-110
Operating Temperature, ° F	: 40-110
Shipping Weight, lbs.	: 6,200
Space Req'd in, L x W x H	: 200 X 50 x 110

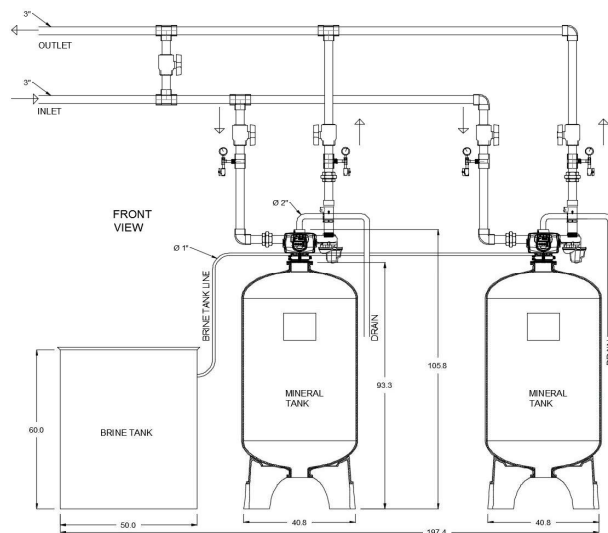
Electrical Specifications

Supply Voltage	: 120V AC
Supply Frequency	: 60 Hz
Output Voltage	: 20V AC
Output Current:	: 750 mA

Top View



Front View



Model: EWS SD3900