

EXCALIBUR WATER SYSTEMS

COMMERCIAL WATER SOFTENER

SYSTEM DESIGN DATA & SPECIFICATIONS

Model: EWS SC2MQC5450

Water Softener 2.0"QC Fiveplex Progressive 450,000 Capacity

Water Softener Operating Parameters

Minimum Flow Rate, gpm	: 9.8
Critical Flow (Progressive), gpm	: 40.0 (200.0)
Service Flow (Progressive), gpm	: 60.0 (300.0)
Flow (Progressive) 15psi ΔP, gpm	: 84.0 (420.0)
Flow (Progressive) 25psi ΔP, gpm	: 109.0 (545.0)
Backwash Flow Rate, gpm	: 25.0
Capacity @15lbs/ft ³ , kgr	: 450.0
Capacity @10lbs/ft ³ , kgr	: 405.0
Capacity @6lbs/ft ³ , kgr	: 300.0
Salt Usage @15lbs/ft ³ , lbs	: 225.0
Salt Usage @10lbs/ft ³ , lbs	: 150.0
Salt Usage @6lbs/ft ³ , lbs	: 90.0
Capacity Max System, kgr	: 2,250.0
Resin Qty, ft ³	: 15.0
#20 Gravel Qty, lbs	: 100.0
1/4"X1/8" Gravel Qty, lbs	: 250.0
Distributor Size, in	: 2.0
Drain Line Size , in	: 1.5
Brine Line Size , in	: 0.75

Miscellaneous Design Data

Mineral Tank Size, in.	: 30x72
Freeboard, in.	: 21.3
Bed Depth, in	: 36.6
Brine Tank Size, in.	: 39x48
Max. Salt Load, lbs.	: 2,200 (Dry)
Regeneration/Vessel Time, min.	: 125
Operating Pressure, psi	: 40-110
Operating Temperature, ° F	: 40-110
Shipping Weight, lbs.	: 8,425
Operating Weight, lbs.	: 28,000
Space Req'd in, L x W x H	: 363x53x100

Electrical Specifications

Supply Voltage	: 120VAC
Supply Frequency	: 60 Hz
Output Voltage Nominal	: 12VAC
Output Current (max per valve)	: 0.5A



Note - Two brine tanks not shown

* Pipe and fittings shown not in scope