EXCALIBUR WATER SYSTEMS

COMMERCIAL WATER SOFTENER

SYSTEM DESIGN DATA & SPECIFICATIONS

Model: EWS SC1254210

Water Softener 1.25" Quadplex Progressive 210,000 Capacity

Water Softener Operating Parameters

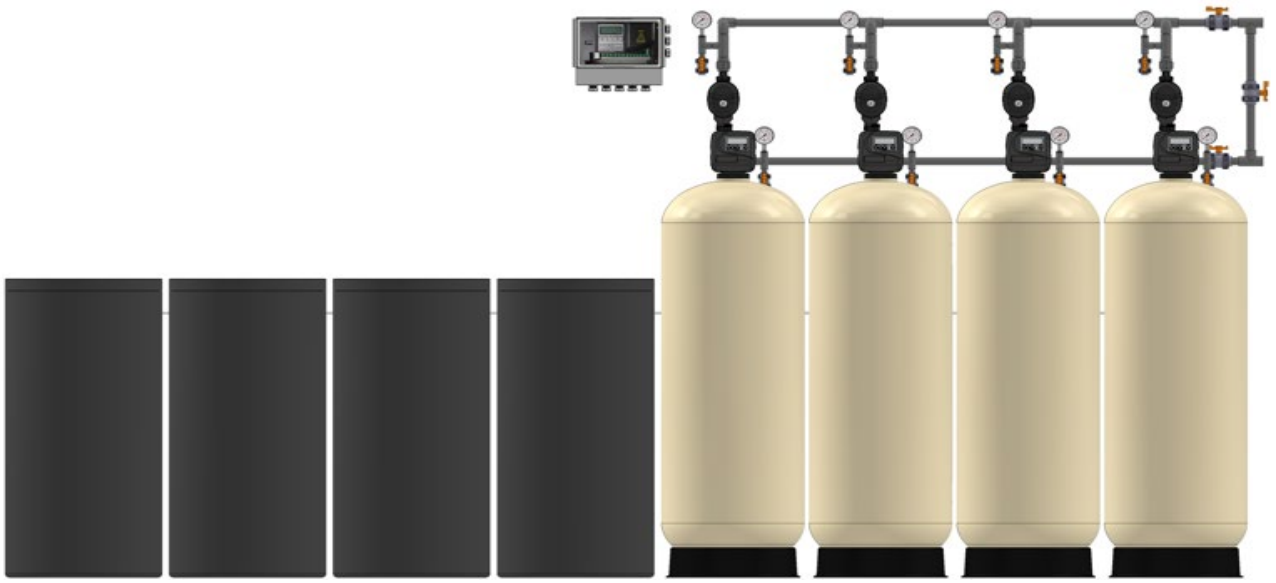
Minimum Flow Rate, gpm	: 4.8
Critical Flow (Progressive), gpm	: 19.0 (76.0)
Service Flow (Progressive), gpm	: 29.0 (116.0)
Flow (Progressive) 15psi ΔP, gpm	: 27.0 (108.0)
Flow (Progressive) 25psi ΔP, gpm	: 34.0 (136.0)
Backwash Flow Rate, gpm	: 11.0
Capacity @15lbs/ft^3, kgr	: 210.0
Capacity @10lbs/ft^3, kgr	: 189.0
Capacity @6lbs/ft^3, kgr	: 140.0
Salt Usage @15lbs/ft³, lbs	: 105.0
Salt Usage @10lbs/ft³, lbs	: 70.0
Salt Usage @6lbs/ft³, lbs	: 42.0
Capacity Max System, kgr	: 840.0
Resin Qty, ft³	: 6.0
#20 Gravel Qty, lbs	: 50.0
1/4"X1/8" Gravel Qty, lbs	: 100.0
Distributor Size, in	: 1.32
Drain Line Size , in	: 1.0
Brine Line Size , in	: 0.5

Miscellaneous Design Data

Mineral Tank Size, in.	: 21x62
Freeboard, in.	: 17.0
Bed Depth, in	: 34.9
Brine Tank Size, in.	: 24x50
Max. Salt Load, lbs.	: 900 (Dry)
Regeneration/Vessel Time, min.	: 125
Operating Pressure, psi	: 40-110
Operating Temperature, ° F	: 40-110
Shipping Weight, lbs.	: 2,550
Operating Weight, lbs.	: 9,000
Space Req'd in, L x W x H	: 192x31x95

Electrical Specifications

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



* Pipe and fittings shown not in scope