EXCALIBUR WATER SYSTEMS

COMMERCIAL WATER SOFTENER

SYSTEM DESIGN DATA & SPECIFICATIONS

Model: EWS SC1254180

Water Softener 1.25" Quadplex Progressive 180,000 Capacity

Water Softener Operating Parameters

Minimum Flow Rate, gpm	: 3.5
Critical Flow (Progressive), gpm	: 14.0 (56.0)
Service Flow (Progressive), gpm	: 21.0 (84.0)
Flow (Progressive) 15psi ΔP, gpm	: 26.0 (104.0)
Flow (Progressive) 25psi ΔP, gpm	: 34.0 (136.0)
Backwash Flow Rate, gpm	: 9.0
Capacity @15lbs/ft^3, kgr	: 180.0
Capacity @10lbs/ft^3, kgr	: 162.0
Capacity @6lbs/ft^3, kgr	: 120.0
Salt Usage @15lbs/ft³, lbs	: 90.0
Salt Usage @10lbs/ft³, lbs	: 60.0
Salt Usage @6lbs/ft³, lbs	: 36.0
Capacity Max System, kgr	: 720.0
Resin Qty, ft³	: 6.0
#20 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.	: 18x65
Freeboard, in.	: 15.2
Bed Depth, in	: 40.7
Brine Tank Size, in.	: 24x50
Max. Salt Load, lbs.	: 900 (Dry)
Regeneration/Vessel Time, min.	: 120
Operating Pressure, psi	: 40-110
Operating Temperature, ° F	: 40-110
Shipping Weight, lbs.	: 2,300
Operating Weight, lbs.	: 8,400
Space Req'd in, L x W x H	: 186x31x95

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