# EXCALIBUR WATER SYSTEMS

## COMMERCIAL WATER SOFTENER

Quality through innovation

# SYSTEM DESIGN DATA & SPECIFICATIONS

## Model: EWS SC1256210

## Water Softener 1.25" Sixplex Progressive 210,000 Capacity

### Water Softener Operating Parameters

| | |
|---|---|
| Minimum Flow Rate, gpm | : 4.8 |
| Critical Flow (Progressive), gpm | : 19.0 (114.0) |
| Service Flow (Progressive), gpm | : 29.0 (174.0) |
| Flow (Progressive) 15psi ΔP, gpm | : 27.0 (162.0) |
| Flow (Progressive ) 25psi ΔP, gpm | : 34.0 (204.0) |
| 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 | : 1,260.0 |
| 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. | : 3,825 |
| Operating Weight, lbs. | : 13,500 |
| Space Req'd in, L x W x H | : 288x31x95 |

### 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