# EXCALIBUR WATER SYSTEMS

## COMMERCIAL WATER SOFTENER

# SYSTEM DESIGN DATA & SPECIFICATIONS

## Model: EWS SC125445

## Water Softener 1.25" Quadplex Progressive 45,000 Capacity

### Water Softener Operating Parameters

| | |
|---|---|
| Minimum Flow Rate, gpm | : 1.1 |
| Critical Flow (Progressive), gpm | : 4.5 (18.0) |
| Service Flow (Progressive), gpm | : 6.5 (26.0) |
| Flow (Progressive) 15psi ΔP, gpm | : 19.0 (76.0) |
| Flow (Progressive ) 25psi ΔP, gpm | : 28.0 (112.0) |
| Backwash Flow Rate, gpm | : 2.7 |
| Capacity @15lbs/ft$^3$, kgr | : 45.0 |
| Capacity @10lbs/ft$^3$, kgr | : 40.5 |
| Capacity @6lbs/ft$^3$, kgr | : 30.0 |
| Salt Usage @15lbs/ft³, lbs | : 22.5 |
| Salt Usage @10lbs/ft³, lbs | : 15.0 |
| Salt Usage @6lbs/ft³, lbs | : 9.0 |
| Capacity Max System, kgr | : 180.0 |
| Resin Qty, ft³ | : 1.5 |
| #20 Gravel Qty, lbs | : 16.0 |
| Distributor Size, in | : 1.32 |
| Drain Line Size , in | : 0.75 |
| Brine Line Size , in | : 0.375 |

### Miscellaneous Design Data

| | |
|---|---|
| Mineral Tank Size, in. | : 10x54 |
| Freeboard, in. | : 14.6 |
| Bed Depth, in | : 33.0 |
| Brine Tank Size, in. | : 18x33 |
| Max. Salt Load, lbs. | : 350 (Dry) |
| Regeneration/Vessel Time, min. | : 90 |
| Operating Pressure, psi | : 40-110 |
| Operating Temperature, ° F | : 40-110 |
| Shipping Weight, lbs. | : 600 |
| Operating Weight, lbs. | : 2,500 |
| Space Req'd in, L x W x H | : 127x28x81 |

### 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