

PRODUCT DATA SHEET

General Information

Skid mounted automatic regeneration softener designed for hardness removal. System is controlled by PLC and operated by pneumatic actuated valves.

Weight and Measures

Capacity	4 m ³ /hr (Normal flow range) 5 m ³ /hr (Peak flow)
Design Pressure	3 bar
Temperature	Limit to ambient. Consult LPC if temperature exceeds 40 °C
Outlet Hardness	0-10 mg/l CaCO ₃
Height	2,600 mm (overall)
Width	1,000 mm
Length	2,000 mm
Weight	600 kgs – equipment only 600 kgs – media only 2,000 kgs - operational
Backwash	4-8 m ³ /hr

Operating Requirements

Compressed Air	5 CFM minimum at 60 psi
Input Power	220 V AC for sand filter controller
Intake Water	4 m ³ /hr minimum at 2 bar

Features

Filter Body	Vertical cylindrical shape pressure vessel, made by mild steel plate 4.5 mm thick face pipe and fitting are 2" carbon steel.
Piping	2" carbon steel.
System Controller	PLC, flush activation based on elapsed time.
Sight Glass	Acrylic glass
Pressure Gauges	4" face, 1/4" NPT bottom connection, stainless steel case, instrument glass lens, 0-10 bar range.
Sampling Cocks	1/2" ball cock, bronze body
Control Valves	2" pneumatic actuator ball valve, brass body
Injection Valves	3/4" pneumatic actuator ball valve, UPVC body
Brine Valves	1/2" pneumatic actuator ball valve, UPVC body
Air Vent Valve	3/4" ball valve, brass body
Filter Media	300 L cation exchange resin
Intake Diffuser	stainless steel pipe with plastic filter nozzles

PACKAGE SOFTENER

Underdrain	Perforated carbon steel plate with plastic filter nozzles
Brine Ejector	UPVC size 3/4"x1/2"
Brine Tank	FRP capacity 1,000L

Surface Details

Interior Coating	Sand blasting SA2.5 2 coats of epoxy
Exterior Coating	Sand blasting SA2.5 2 coats of epoxy

Tests

Pressure Test	Manufacturer pressure test at 10 bar by compressed air and hydro test at 6 bar
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