

PRODUCT DATA SHEET

General Information

Skid mounted high rate automatic backwashing sand filter designed for general purpose water filtration of organic and inorganic solids. System controlled by PLC and operated by pneumatic actuated valves.

Weight and Measures

Capacity	8-15 m ³ /hr (Normal flow range) 18 m ³ /hr (Peak flow)
Design Pressure	3 bar
Temperature	Limit to ambient. Consult LPC if temperature exceeds 40 °C
Filtration	50-100 microns
Height	2,600 mm (overall)
Width	2,000 mm
Length	2,000 mm
Weight	700 kgs – equipment only 2,500 kgs – media only 5,000 kgs - operational
Backwash	15-18 m ³ /hr

Operating Requirements

Compressed Air	5 CFM minimum at 60 psi
Input Power	220 V AC for sand filter controller
Intake Water	8 m ³ /hr minimum at 2 bar

Features

Filter Body	Vertical cylindrical shape pressure vessel, made by mild steel plate 6.0 mm thick
Piping	face pipe and fitting are 2 ½" carbon steel. Flanges are ANSI150LB.
System Controller	PLC, flush activation based on elapsed time.
Sight Glass	Acrylic glass
Pressure Gauges	4" face, ¼" NPT bottom connection, stainless steel case, instrument glass lens, 0-10 bar range.
Sampling Cocks	½" ball cock, bronze body
Control Valves	2 ½" pneumatic actuator butterfly valve, cast iron body
Air Vent Valve	¾" ball valve, brass body
Filter Media	1,500 L selected gravel and sand
Intake Distributor	Opened pipe
Underdrain	Header-lateral pierced pipe system, GSP

PACKAGE SAND FILTER

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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