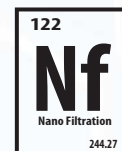


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Nanofiltration 6000 gpd



Daily production chart (liters/day)

STD (NaCl) à l'entrée (mg/l)

°C/°F	2 000
25/77	(gpd) 6 000
	(lpd) 22 710
15/59	(gpd) 5 112
	(lpd) 19 349
5/41	(gpd) 3 744
	(lpd) 14 171

* Inlet water parameters used for calculations : raw water at 25°C. SDI < 3, no counterpressure.

Components

Inlet valve	1" FNPT
Inlet filter	5 microns, 114 x 508 mm (4,5 x 20")
Pressurization pump	Submersible booster pump Stainless steel 316
Motor	3/4 HP NEMA 208-240VAC/1ph/60Hz 208-575VAC/3ph/60Hz
Low pressure protection	Pressure switch
Membrane housing	PVC 4040
Membrane type	TFC - Nanofiltration
Membrane dimensions	102 x 1 016 mm (4" x 40")
Number of membranes	3
Membrane surface m ² (pi ²)	22,8 (246)
Recirculation control	Manual flow control
Drain control	Regulation valve (flow/pressure)
Reject flow meter	0-37,9 lpm (0-10 gpm)
Permeate flow meter	0-18,9 lpm (0-5 gpm)
System shutoff control	Float/contact device
Inlet water quality monitor	0-1 000 µS
Permeate water quality monitor	0-500 µS
Display screen	Printed circuit board, 2 line screen

Connections

Electric power supply	208-240VAV/1ph/60Hz, 9,2/8,0 Amp. 208-575VAC/1ph/60Hz Other power supply configurations available on demand
Inlet	1" FNPT
Permeate	3/4" MNPT
Reject	3/4" MNPT
PüreRince process	1/2" FNPT

Feed water

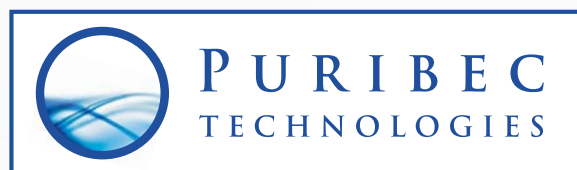
Inlet pressure	25-50 psi (1,7 - 3,4 bar)
Operating pressure	60-90 psi (4,1 - 6,2 bar)
Temperature	4 - 30 °C
pH	2 - 11 SU
Chlorine (Max.)	0,05 mg/l
Hardness (Max.)	103 mg/l (6 gpg)
Iron (Max.)	0,3 mg/l
Silica (Max.)	10,0 mg/l
Total dissolved solids (Max.)	3 000 mg/l

Operating specs

Permeate flow rate *	15,8 lpm (4,17 gpm)
Reject flow rate @ 65 %	8,5 lpm (2,24 gpm)
Daily production	22 710 l (6 000 gal)
Recovery ratio	65-75 %
Rinse time	5 minutes
Rinse volume (Min.)	37,9 l (10 gal)
Width x Depth x Height	838 x 457 x 1 372 mm (33 x 18 x 54")
Shipping / operating weight	132/181 kg (290/400 lbs)

Options

Raw water conductivity probe	
Reject water conductivity probe	
BACnet or Modbus communication protocols available	
Direct feed	
Programmable logic controllers (PLC)	
Stainless steel piping (316)	
Alternate or auxiliary pump	



Nanofiltration 6000 gpd

Technical specifications : Commercial and industrial nanofiltration systems

Operating profile

The system uses reverse nanofiltration technology to remove micropollutants, to improve color and reduce total dissolved solids (TDS) level in water by a minimum of 95%, depending on raw water quality. System contains its own pressurization system to optimize the production of water through the membranes. System operating pressure should be between 60 and 90 psi (4,1 and 6,2 bar). System functionalities include monitoring and regulating devices to adjust the system's operating pressure. The system contains an electric inlet valve that closes when a tank full or a problem signal is received. A low pressure switch serves to protect pump from cavitation damage during low pressure occurrences. On/Off cycling is based on a normally open dry contact (ex.: level float switch), a pressure switch or an external contact. The unit is equipped with audible and visual alarms as well as a fused disconnect switch.

Pump design

Units use a multi-stage vertical stainless steel submersible pump. Pump motor is 3/4 HP (60Hz) or 1 HP (50Hz) and NEMA rated.

Membranes and housings

System uses 3 TFC nanofiltration membranes in a spiral wound configuration. Each membrane size shall be 102 x 1 016mm (4.0" x 40") with an area of 7,6 m². Each membrane and housing shall be rated for a working pressure to 225 psi (15,5 bar). Housings shall be mounted in a vertical configuration.

Plumbing configuration

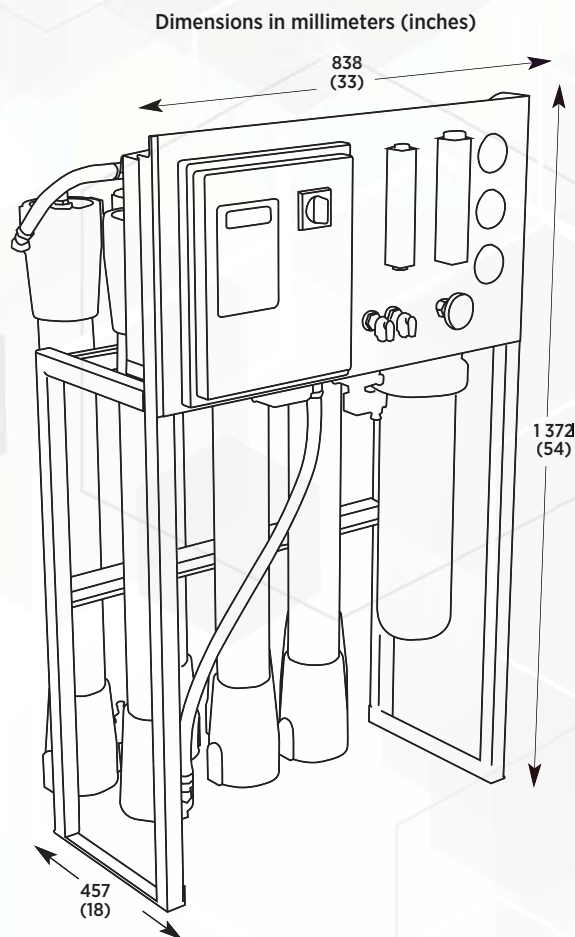
System incorporates a reject recovery design and provides for an adjustable internally recirculated flow rate. Reject flow is controlled by a pressure regulating valve. During a shut down mode, the feed side of the membrane shall be flushed with at least 5 housing volumes of permeate water. PüreRince cycle shall be automatic with each shutdown.

Skid

The system is assembled on a corrosion resistant stainless steel frame. The unit will not weight more than 181 kg during operation.

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