



TECHNICAL SHEET

PENTAIR MODULAR PRO SERIES





PENTAIR MODULAR PRO SERIES

Get Connected!

Welcome to another chapter of Innovation. Here is a series of affordable light commercial filtration and reverse osmosis components. Custom configure the easy-to-connect Modular Pro Series reverse osmosis components into various configurations to meet a wide range of water needs and applications. And at a fraction of the price of other light commercial systems.



MEMBRANE MODULE SPECIFICATIONS

TUBING/FITTING CONNECTIONS

Feed (white)	½ inch
Permeate (blue)	½ inch
Concentrate (red)	½ inch

SYSTEM OPERATING CONDITIONS

Inlet water temperature	10-32°C
Recommended operating pressure	2.75-6.20 bar
Feed TDS	100-3000 ppm
System recovery	10-75%
Certifications	NSF 61 (applied), RoHS
Average rejection [NaCl]*	94%

MEMBRANE PERFORMANCE SPECIFICATIONS: RO ELEMENT

Flow rate*	0.95 Lpm
Life*	1-2 years
Average rejection [NaCl]*	94%

* Based on 3.44 bar, 25°C, 750 mg/L NaCl, 24% recovery.

FILTER MODULE SPECIFICATIONS

TUBING/FITTING CONNECTIONS

Feed (white)	½ inch
Filtered water (blue)	½ inch

SYSTEM OPERATING CONDITIONS

Inlet water temperature	10-32°C
Recommended operating pressure	2.75-6.20 bar
Certifications	NSF 61 (applied), RoHS

FILTER PERFORMANCE SPECIFICATIONS: CARBON FILTER

Length	17 inches
Diameter	2.9 inches
Flow rate*	14 Lpm
Capacity*	18.930 L
Micron rating	5 microns

FILTER PERFORMANCE SPECIFICATIONS: SEDIMENT FILTER

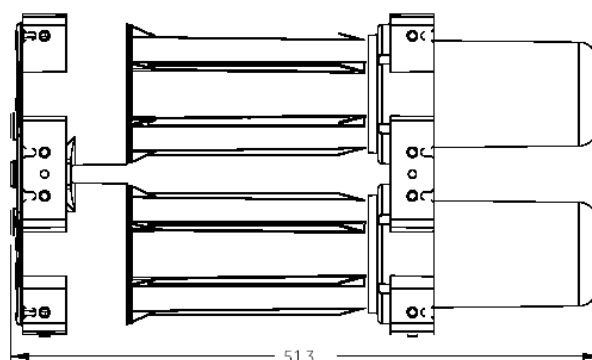
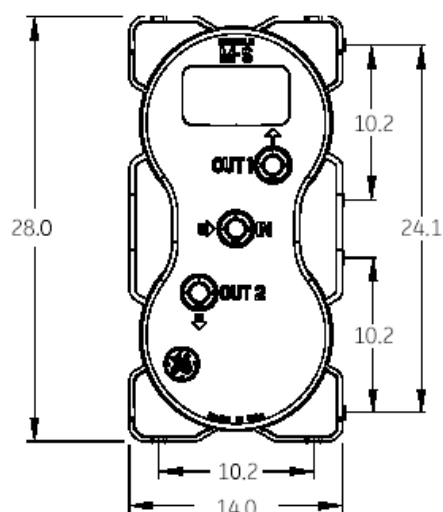
Length	17.2 inches
Diameter	2.75 inches
Flow rate*	14 Lpm
Capacity*	18.930 L
Micron rating	10 microns

* Based on 3.44 bar, 25°C, 750 mg/L NaCl, 24% recovery.

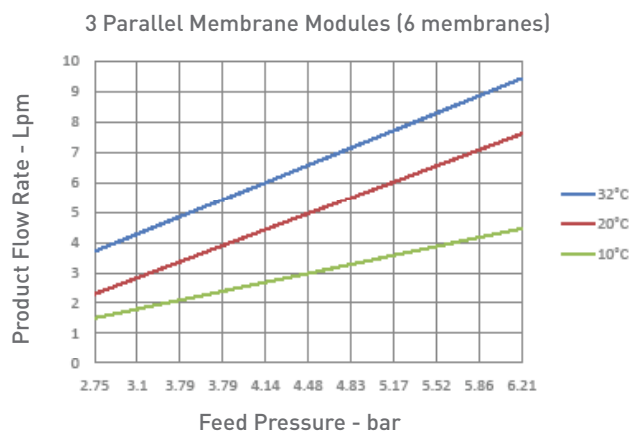
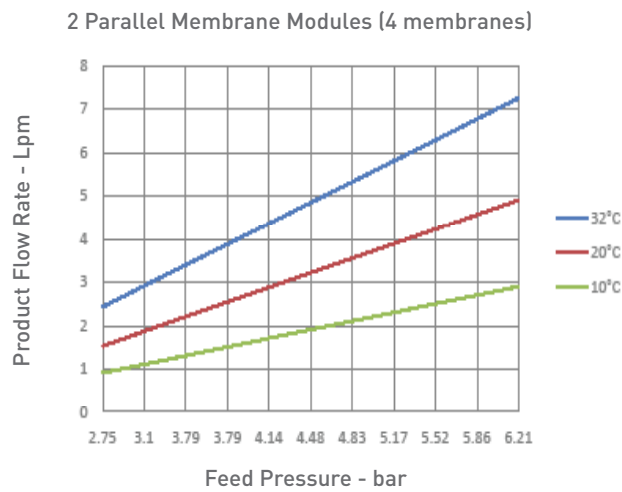
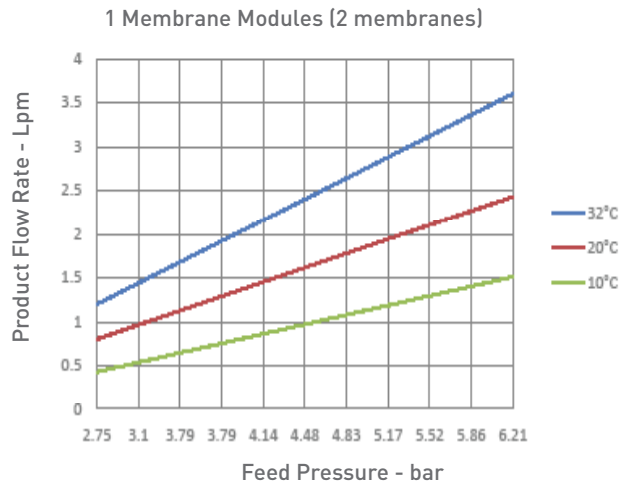
ACCESSORIES

Pumps (North American and world models available), solenoid valves, pressure switch, float switch, concentrate flow restrictor, complete start-up kit, additional module, connection kit, tubing kit.

OUTLINE DIMENSIONS - CM



FLOW RATE CHARACTERISTICS



Note: Graphs are based on the following specifications: 750mg/L NaCl, 50% recovery. All graphs are based on internal testing. Actual results may vary.



TECHNICAL SHEET

PENTAIR

PRF RO REVERSE OSMOSIS SYSTEM





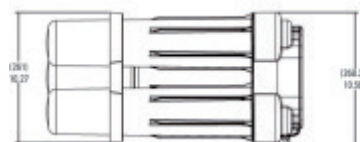
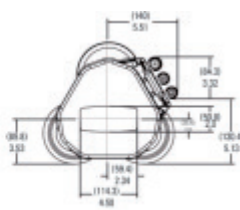
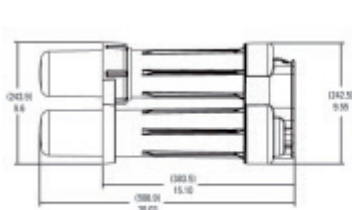
PRF RO REVERSE OSMOSIS SYSTEM

TECHNICAL CHARACTERISTICS



- On-demand flow system, continuous flow, no storage tank needed
- Functioning without pump or electricity, line pressure: 2.76 bar
- Consistent membrane efficiency
- High recovery system
- High impact plastic construction
- Compact and sleek styling
- Custom high-flow faucet (with air gap)
- Complete product literature and training support

OUTLINE DIMENSIONS IN INCHES (CM)



APPLICATIONS

- Steamers
- Coffee makers
- Photography processing
- Water coolers
- Business offices
- Restaurants
- Humidifiers
- Aquariums
- Misters
- Pubs
- Many more profitable possibilities

FILTER/MEMBRANE PERFORMANCE SPECIFICATIONS

Dimensions				
Filter Type	Length	Diameter	Flow Rate***	Average Life
Carbon Pre-Filter	43.2 cm	7.4 cm	14.2 Lpm	6-12 months, 37 850 L
RO Element	47.6 cm	8 cm	0.95 Lpm	2-4 years
Carbon Post-Filter	25.4 cm	5.1 cm	2.8 Lpm	6-12 months

*** Based on internal testing data.

MINIMUM AND MAXIMUM OPERATING CONDITIONS

Condition**	Minimum	Maximum
Inlet Pressure Conditions	2.76 bar	5.52 bar
Inlet Temperature	4.44°C	37.78°C
Inlet TDS	50 mg/L	2000 mg/L
Inlet Hardness	0 mg/L	171 mg/L
Inlet Chlorine	0 mg/L	1.0 mg/L
Inlet Iron	0 mg/L	0.1 mg/L
Inlet Manganese	0 mg/L	0.05 mg/L

** System is designed for use on potable water sources only.

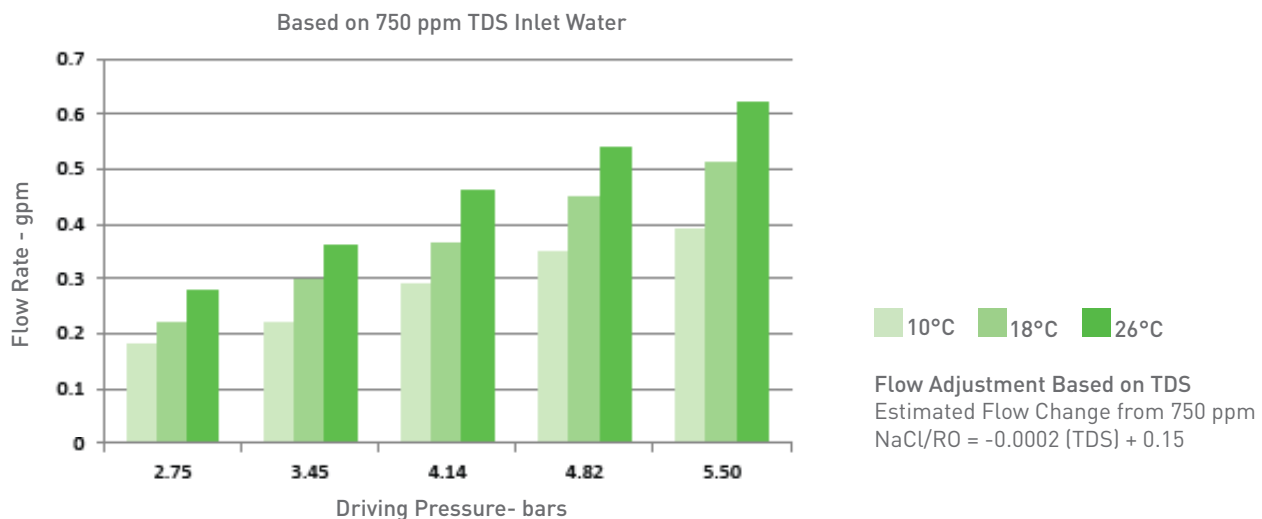
TUBING/FITTING DIMENSIONS

Inlet Tubing	1.22 m of 12.7 mm natural tubing (4 feet of ½ inch natural tubing)
Concentrate Tubing	1.22 m of 9.53 mm black tubing (4 feet of ¾ inch black tubing)
Permeate Tubing	1.22 m of 9.53 mm blue tubing (4 feet of ¾ inch blue tubing)
Drain Tubing (for airgap installation)	0.91 m of 12.7 mm red tubing (3 feet of ½ inch red tubing)
Drain Connection	9.53 or 12.7 mm (¾ or ½ inch)
Carbon Post-Filter	9.53 mm quick disconnect fittings (¾ inch quick disconnect fittings)

INLET CONNECTORS

Option 1	12.7 x 12.7 x 12.7 mm tee (½ x ½ x ½ inch tee)
Option 2	15.875 x 15.875 x 12.7 mm tee (¾ x ¾ x ½ inch tee)
Option 3	12.7 x 12.7 threaded x 12.7 mm tee (½ x ½ threaded x ½ inch tee)
Option 4	15 x 15 x 12.7 mm tee (0.59 x 0.59 x ½ inch tee)

PERFORMANCE – FLOW RATE CHARACTERISTICS*



* Estimated flow based on internal test data. Actual performance may vary.

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