

Hyperpure Double Pass Reverse Osmosis System

Hyperpure double pass reverse osmosis system is a truly industrial grade water purification system built for the most demanding industries such as the microelectronics, the biotechnology and the pharmaceutical manufacturing.

When system downtime is costly to you, when production can not be interrupted due to a water treatment system failure, go for the most reliable water system.

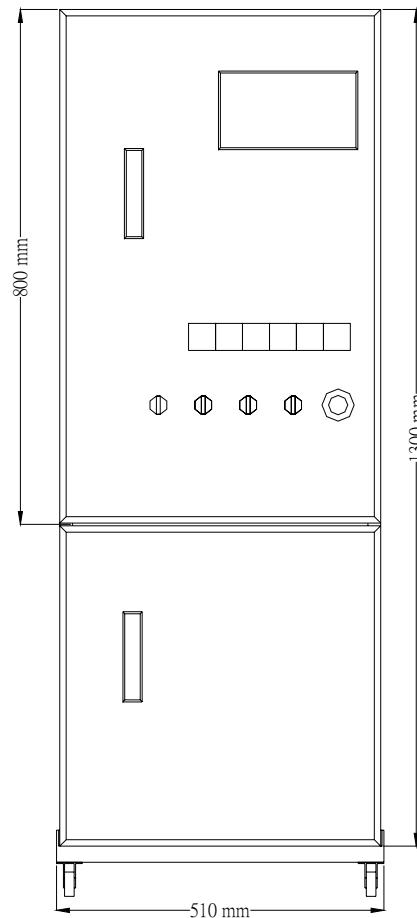
Puritron combined many years of industrial RO system design and field experience with state-of-the-art technologies to build a unique RO system for those who care about their pure water requirements.



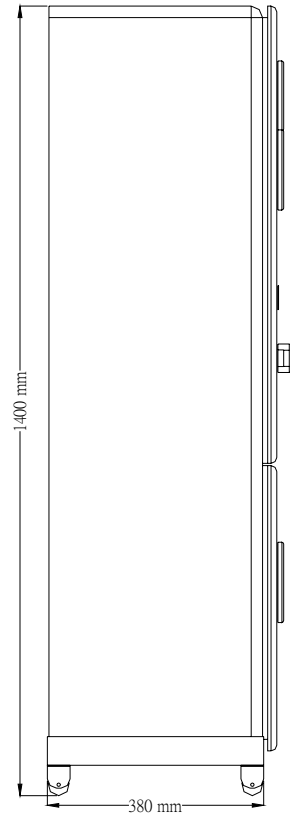
Double Pass Reverse Osmosis – DP RO-10

Standard Features

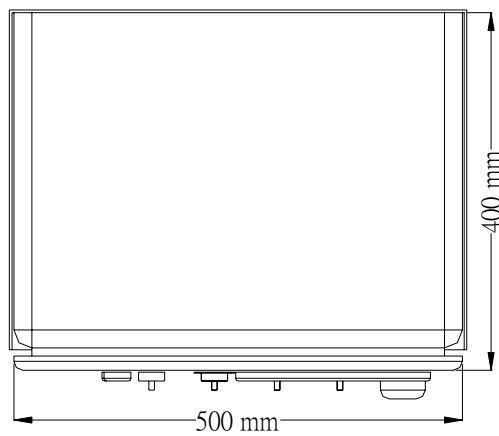
- Feed water shut off valve for automatic control of feed water supply to the RO system.
- Low feed water pressure shut down for the RO pump.
- SS 316 glycerin filled pressure gauge for feed pressure.
- Second pass RO reject recycle for conservation of feed water.
- Rotameter for first pass RO reject flow rate.
- Auto flush upon high level, at fixed interval and at time of system standby.
- Auto rinse of second pass RO production line upon start-up.
- Diversion of sub-standard second pass RO permeate to first pass RO feed.
- IP 54, SS 304 control enclosure for electrical components.
- Programmable Logic Controller for maximum flexibility.
- Interface for RO permeate tank level control.
- Conductivity monitor and control for second pass RO permeate.



Front View



SIDE VIEW



PLAN VIEW

Specifications

Model	DP RO -10	
Operating Data		
First Pass RO Flow Rate:	Raw Water	106 l/h
	Second Pass RO Recycle	35 l/h
	Feed rate	141 l/h
	First Pass RO reject rate	96 l/h
	Second Pass RO Permeate	10 l/h
Array configuration:	1:1	
Salt Rejection (Projected):	>99% (Initial)	
Recovery:	9.4 %	

Feed Water Requirements

Feed Pressure	Flow Rate	Free Chlorine	SDI (15)	LSI	Temperature
1-3 bar	106 l/h	<0.1 ppm	<5	Negative	<45

Electrical Requirements

	Model	Motor	Model No.	
RO Pump	Procon	0.25 kW	112A050F11BA250	220 VAC/1PH/50Hz

Key RO Components

	Model	Materials	Dimensions	Pressure Rating	Qty
RO Pressure Vessel	2521	SS 304	2.5" x 21"	20 bar	1
RO Membrane Element	2521	TFC Polyamide	2.5" x 21"	25 bar	1
RO Pressure Vessel	2514	SS 304	2.5" x 14"	20 bar	1
RO Membrane Element	2514	TFC Polyamide	2.5" x 14"	25 bar	1
Dimensions					
	Width, mm	500			
	Depth, mm	400			
	Height, mm	1,400			
	Weight, kg	85			

NOTES:

1. Consult Puritron before placing order if feed water pressure is less than 1 bar or over 3 bar.
2. For high turbidity water with NTU more than 1 or Silt Density Index (SDI₁₅) over 5, consider adding sand filter ahead of pre-filter.
3. If RO reject Langelier Saturation Index (LSI) is positive, soften the feed water or install chemical dosing pump for anti-scalant addition into the feed water.
4. For high Total Dissolved Solids (TDS) water over 1,000 ppm, consult Puritron for special RO membranes.
5. Other flow rate available on request.
6. Other voltages available on request.