

Model: ARCTIC

**Piranha Reverse Osmosis Systems
(9000 - 30000 GPD / 1500 - 5000 LPH)**



ARCTIC Reverse Osmosis Systems

- ★ Ultimate Design for Brackish Water
- ★ Fully Equipped and Customisable
- ★ Complete Package with Pre-Treatment Systems
- ★ Anti-Scalant Dosing System Built-In
- ★ High Flow Low-Energy Membranes
- ★ CIP Provisions for Membrane Cleaning
- ★ Integrated Space Saving Design

Arctic Reverse Osmosis Systems feature an excellent pre-treatment design, high quality components and offer high performance.

Arctic systems are designed for higher recovery rates and minimum energy consumption. Experience greater savings with lower maintenance and operation costs when you install a Piranha Reverse Osmosis System.

Model: ARCTIC Piranha Reverse Osmosis Systems (9000 - 30000 GPD / 1500 - 5000LPH)

Product Description:

ARCTIC compact commercial reverse osmosis systems are a durable piece of equipment which, with the correct care and maintenance will last for many years. ARCTIC systems are part of a family of reverse osmosis units designed for operation with brackish feedwaters having TDS values below 10,000ppm. ARCTIC systems are specially designed for brackish water desalination with automatic permeate flushing system and pre-filtration systems on one single frame. Flushing time is adjustable from the PLC inside the system. Models are available with permeate outputs of between 1,500 and 5,000 litres/hour as shown in the specifications tables.

Specifications:

Model		Arctic 9000	Arctic 12000	Arctic 1500	Arctic 1800	Arctic 21000	Arctic 30000
Capacity	GPD / LPH	9000 / 1500	12000 / 2000	15000 / 2500	18000 / 3000	21000 / 3500	30000 / 5000
Working Pressure	PSI / BAR	200 - 300 / 14 - 20					
Raw Water Feed Pump		Injection type S.S pump + pressure tank					
Sand Filter	Control Valve	Automatic Timer Control Valve					
	Size & Capacity	13"x54"(70L)	14"x65"(100L)	16"x65"(120L)	18"x65"(150L)	21"x62"(200L)	21"x62"(200L)
Carbon Filter	Control Valve	Automatic Timer Control Valve					
	Size & Capacity	13"x54"(70L)	14"x65"(100L)	16"x65"(120L)	18"x65"(150L)	21"x62"(200L)	21"x62"(200L)
Dosing System		Anti-scalant Dosing System x 1 set (dosing pump + chemical tank + level switch)					
Pre-Filter		BB Housing + PP 5um Cartridge					
High Pressure Pump		Multi-Stage Vertical Pump					
Membrane Housing		High pressure FRP end port type, 2100 kPa (300 PSI) rating					
RO Membrane		4040 x 6	4040 x 8	4040 x 10	4040 x 12	8040 x 4	8040 x 6
Frames	Parts	Stainless steel main frame, rollers, brackets					
	Size	3500mm X 1000mm X 2200mm (L x W x H)					

Feed Water Specifications: (minimum)

Hardness	< 1 ppm	Hydrogen Sulphide	0 ppm	Free Chlorine	0 ppm
Manganese	< 0.05 ppm	T.D.S.	< 1000 ppm	Organics	< 1 ppm
Turbidity (SDI)	< 5 ppm	Temperature	+ 5 to + 40	pH	3 - 11
Silica	< 1.0 ppm	Iron	< 0.01 ppm	Pressure	> 300kPa

R.O. Operating Parameters:

Min. Pressure	BAR (35 PSI)	Max. Pressure	BAR (300 PSI)	Max. Hardness	1 ppm
Min. Salt Rejection	96%	Max. Salt Rejection	99%	Max. TDS	2000 ppm

Raw water source and quality is the key element that directly effect on the choice of pre-treatment equipment, pumps, piping, membranes...etc.
Please don't hesitate to send us your enquiry and see how we can help to meet your water treatment needs.

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