IH2O-Series Membrane Systems

The **Ideal H20 IH20-Series Membrane Systems** are state-of-the-art, versatile systems for treating tap and well water supplies and with flow rates ranging from 2,000 to 8,000 gallons per day. Minimal energy consumption, low maintenance and operation costs make **IH2O-Series Membrane Systems** the ideal choice for a variety of applications.

Big on features but not on space, **IH20-Series Systems** feature a robust, innovative design that allows for versatility in the event of feed water quality and temperature variations. A C23 computer controller with feed flush comes standard to reliably operate the system. HF5-Series Ultra Low Energy membranes are standard on all systems and offer high rejection and flow rates for quality system performance. Systems also feature a heavy duty 1/2 HP or 1 HP stainless steel multistage booster pump for superior performance and corrosion resistance.

IH20-4000
Membrane System

Features

- C23 Switch Controller with Feed Flush
- Ultra Low Energy Membrane Elements
- PVC / Glass Filled Nylon Membrane Housings
- 4.5" x 20" Single O-Ring Pre-Filter Housing
- Catalytic Carbon Block
- Multistage Stainless Steel Centrifugal Pump
- Motor Thermal Overload Protection
- Pump Operating Pressure Gauge
- Pre-Filter In Pressure Gauge
- Pre-Filter Out Pressure Gauge
- Permeate Flow Meter
- Concentrate Flow Meter
- Concentrate Recycle Flow Meter
- 40 - 60 psi Pressure Switch
- Feed Low Pressure Switch
- ASCO Solenoid Valve
- Stainless Steel Concentrate Valve
- Stainless Steel Recycle Valve
- Chemical Injection Port and Plug

Options

- Membrane Expansion Kit (2000 GPD to 4000 GPD)
- Membrane Expansion Kit (6000 GPD to 8000 GPD)
- TDS Meter
- Chemical Injection System
- Casters

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Product Specifications				
	IH20-2000	**IH20-4000**	**IH20-6000**	**IH20-8000**
Design				
Configuration	Single Pass	Single Pass	Single Pass	Single Pass
Feed Water Source* **	Up to 2,000 ppm	Up to 2,000 ppm	Up to 2,000 ppm	Up to 2,000 ppm
System Recovery ^	30% – 50%	30% – 50%	30% – 50%	30% – 50%
System Recovery with Recycle	50% – 75%	50% – 75%	50% – 75%	50% – 75%
Rejection and Flow Rates				
Nominal Salt Rejection	Up to 98.5%	Up to 98.5%	Up to 98.5%	Up to 98.5%
Permeate Flow Rate*	1.39 gpm	2.78 gpm	4.17 gpm	5.56 gpm
Concentrate Flow Rate (Minimum)	3.00 gpm	3.00 gpm	3.00 gpm	3.00 gpm
Concentrate Recycle Flow Rate	Up to 2.00 gpm	Up to 5.00 gpm	Up to 5.00 gpm	Up to 5.00 gpm
Connections				
Feed Connection	3/4" FNPT	3/4" FNPT	3/4" FNPT	3/4" FNPT
Permeate Connection	1/2" QC	1/2" QC	1/2" QC	1/2" QC
Concentrate Connection	1/2" MNPT	1/2" MNPT	1/2" MNPT	1/2" MNPT
Membranes				
Membranes Per Vessel	1	1	1	1
Membrane Quantity	1	2	3	4
Membrane Size	4039	4039	4039	4039
Vessels				
Vessel Array	1	1:1	1:1:1	1:1:1:1
Vessel Quantity	1	2	3	4
Pumps				
Pump Type	Multi-Stage	Multi-Stage	Multi-Stage	Multi-Stage
Motor HP	1/2 HP	1/2 HP	1 HP	1 HP
RPM @ 60 HZ	3450	3450	3450	3450
Electrical				
Standard Voltage	115V 1Ph 60 HZ	115V 1Ph 60 HZ	230V 1Ph 60 HZ	230V 1Ph 60 HZ
System Dimensions**				
Approx. Dimensions (L x W x H)	18" x 18" x 45"	18" x 18" x 45"	18" x 18" x 45"	18" x 18" x 45"
Approx. Weight	100 lbs.	120 lbs.	140 lbs.	160 lbs.

* Product flow and recovery rates are based on equipment test parameters.

** Does not include operating space requirements.

*** Treatment ability of the RO System is dependent on feed water quality. Performance projections must be run for each installation.

Operating Limits

Design Temperature	77°F	Max. Turbidity NTU ^^^	1
Max. Feed Temperature	85°F	Max. Free Chlorine ppm	0
Min. Feed Temperature	40°F	Max. TDS ppm	2000
Max. Ambient Temperature	120°F	Max. Hardness GPG ^^	Up to 300
Min. Ambient Temperature	40°F	Max. pH (Continuous)	11
Max. Feed Pressure psi	85	Min. pH (Continuous)	5
Min. Feed Pressure psi	45	Max. pH (Cleaning 30 Min.)	12
Max. Operating Pressure psi	150	Min. pH (Cleaning 30 Min.)	2
Max. SDI Rating	<3		

Test Parameters: Static pressure test for 5 minutes.

^ Low temperature and high feed water TDS levels will significantly affect systems production capabilities. Computer projections should be run for individual applications which do not meet or exceed minimum and maximum operating limits.

^^ Scale prevention measures must be taken to prolong membrane life.

^^^ Appropriate filtration must be installed in order to prevent premature membrane fouling.

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