

SISTEMAS DE ÓSMOSIS INVERSA M1

M1-Series Reverse Osmosis Systems are designed for overall superior performance, high recovery rates, minimal energy consumption and offer great savings with low maintenance and operation costs.

M1-Series Reverse Osmosis Systems

feature a new, innovative and expandable design which utilizes fewer fittings and connections.

These systems feature only the highest quality components, including a programmable computer controller with many built-in standard features, a stainless steel booster pump for high performance and corrosion resistance, ultra low energy membranes and fiberglass membrane housings for enhanced performance and durability.



M1-12240
Reverse Osmosis System

M1-Series Reverse Osmosis Systems have been engineered for capacities ranging from 12000 – 36000 gallons per day.

Benefits

- Fully Equipped and Customizable
- Expandable and Skid Mounted
- Components Easily Accessible
- Pre-Plumbed, Wired and Assembled
- Individually Tested and Preserved
- Low Operation and Maintenance Costs
- Easy Maintenance and Servicing
- 20% Less Energy
- CE Compliant
- 1-Year Limited Warranty
- Made in the U.S.A.

Engineered Water Treatment Solutions

BestAQUA

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Dana Point, CA 92629
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SISTEMAS DE ÓSMOSIS INVERSA M1

Standard Features

Models – M1-4240, M1-6240, M1-8240

- S150 Computer Controller
 - ◆ LCD Backlit Display
 - ◆ Pre-Treatment Lockout
 - ◆ Tank Level Input
 - ◆ Low Pressure Monitoring and Alarm
 - ◆ Hour Meter
 - ◆ Feed Flush

Models – M1-10240, M1-12240

- S200 Computer Controller
 - ◆ LCD Backlit Display
 - ◆ Pre-Treatment Lockout
 - ◆ Tank Level Input
 - ◆ LED Low Pressure Monitoring and Alarm
 - ◆ Hour Meter
 - ◆ Dual TDS Monitoring
 - ◆ Feed Flush
 - ◆ Digital Flow Meters x 3

- AX® Permeate and Concentrate Flow Meters
- AX® Concentrate Recycle Flow Meter
- Stainless Steel Concentrate Globe Valve
- AX® Pre-Filter 0-100 psi Panel Mounted Glycerin Filled Gauges
- AX® Pump Discharge and Concentrate 0-300 psi Panel Mounted Glycerin Filled Gauges
- AX® Bag Filter Housing with Stainless Steel Stand
- AX® 5 Micron Filter Bag

- AX® HF5 Ultra Low Energy Membrane Elements
- AX® Fiberglass Membrane Housings – 450 psi
- Vertical Multi-Stage Stainless Steel Booster Pump
- Feed Solenoid Valve

- Feed Low Pressure Switch
- Clean-In-Place (CIP) Ports
- Victaulic® Style Fittings
- Permeate Sample Ports
- White Powder Coated Aluminum Frame
- Wooden Crate



M1-12240
Reverse Osmosis System

Options and Upgrades

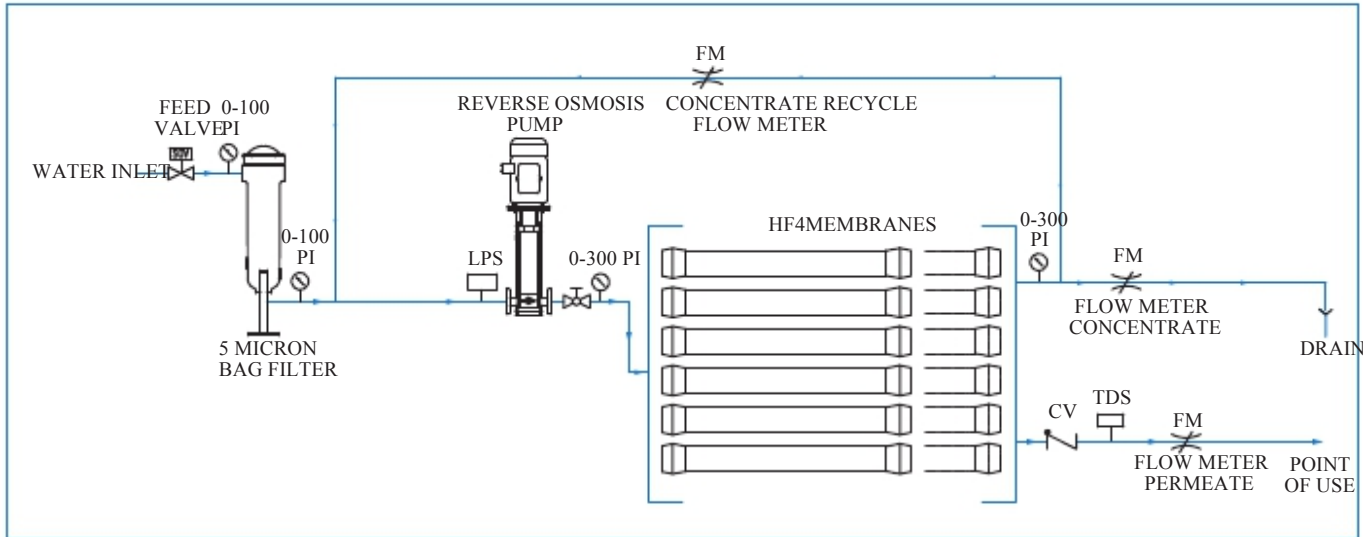
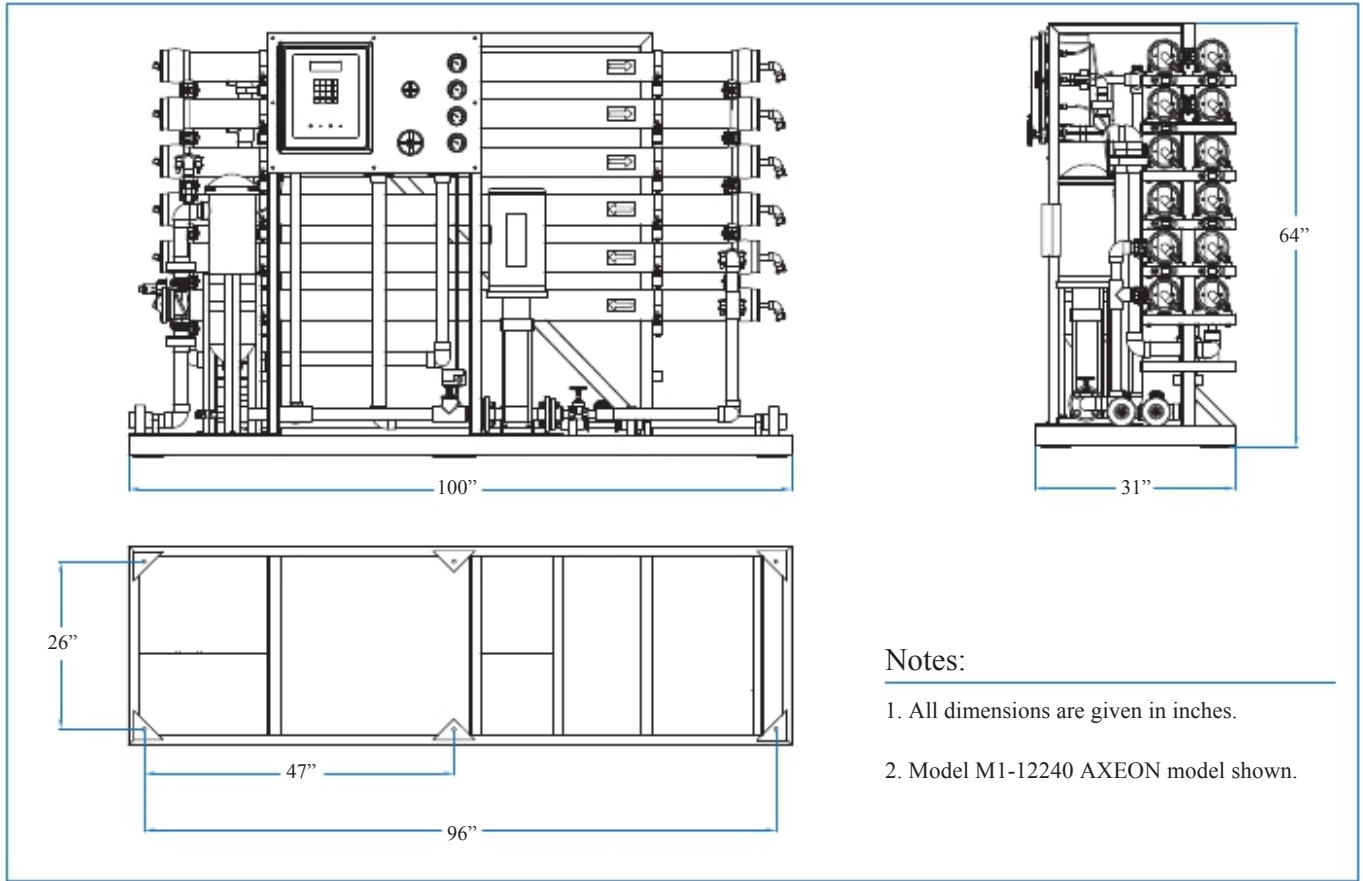
- S150 Expander Board***
- S150 Dual TDS Board***
- S200 Controller Feed TDS Sensor
- Variable Frequency Drive††
- AX® NF3 Nanofiltration Membrane Elements
- AX® NF4 Nanofiltration Membrane Elements
- Filmtec® LCLE Membrane Elements
- Filmtec® LCHR Membrane Elements
- Hanna® BL 981411 pH Meter***
- Hanna® BL 982411 ORP Meter***
- S200 pH Monitoring
- S200 ORP Monitoring
- Chemical Pump Outlet
- Blending Valve
- High Pressure Tank Switch
- Pump Pressure Relief Valve†
- Permeate Divert Valve
- Caster Wheels

AX Naming Matrix

	M1	12	2	40
M-SERIES MODEL				
M1 Tap Water Model				
HOUSING QUANTITY DESIGNATION				
4 4 Vessel				
6 6 Vessel				
8 8 Vessel				
10 10 Vessel				
12 12 Vessel				
MEMBRANE QUANTITY PER HOUSING				
2 2 Membranes				
4.0 INCH MEMBRANE DIAMETER				

†† Standard for all 50Hz Systems

*** Only available on the following models: M1-4240, M1-6240, M1-8240



Array Specifications

Model	Vessel Array	Vessel Size	Vessel Quantity	Membrane Size	Membrane Quantity
M1-4240	2:2	4080	4	4040	8
M1-6240	2:2:2	4080	6	4040	12
M1-8240	3:3:2	4080	8	4040	16
M1-10240	3:3:2:2	4080	10	4040	20
M1-12240	3:3:2:2:2	4080	12	4040	24

SISTEMAS DE ÓSMOSIS INVERSA M1

Specifications

Models M1-4240 M1-6240 M1-8240 M1-10240 M1-12240					
Design					
Configuration	SinglePass	SinglePass	SinglePass	SinglePass	SinglePass
FeedWaterSource***	TDS<2,000ppm	TDS<2,000ppm	TDS<2,000ppm	TDS<2,000ppm	TDS<2,000ppm
StandardRecoveryRate	50-75%	50-75%	50-75%	50-75%	60-75%
RejectionandFlowRates					
NominalSaltRejection%	99	99	99	99	99
PermeateFlow*gpm(lpm)	8.3(31.6)	12.5(47.3)	16.7(63.1)	20.8(78.9)	25.0(94.6)
MinimumFeedFlowgpm(lpm)	14.3(54.3)	18.5(70.00)	22.7(85.8)	26.8(101.6)	31.0(117.4)
MaximumFeedFlowgpm(lpm)	28(106)	28(106)	42(159)	42(159)	42(159)
MinimumConcentrateFlowgpm(lpm) withRecycleBasedon75%Recovery	6.00(22.70)	6.00(22.70)	6.00(22.70)	6.95(26.31)	8.33(31.53)
Connections					
Feedinch	1.5"FNPT	1.5"FNPT	1.5"FNPT	1.5"FNPT	1.5"FNPT
Permeateinch	1"FNPT	1"FNPT	1"FNPT	1.5"FNPT	1.5"FNPT
Concentrateinch	1"FNPT	1"FNPT	1"FNPT	1.5"FNPT	1.5"FNPT
CIPinch	1"FNPT	1"FNPT	1"FNPT	1"FNPT	1"FNPT
Membranes					
Membrane(s)PerVessel	2	2	2	2	2
MembraneQuantity	8	12	16	20	24
MembraneSize	4040	4040	4040	4040	4040
Vessels					
VesselArray	2:2	2:2:2	3:3:2	3:3:2:2	3:3:2:2:2
VesselQuantity	4	6	8	10	12
Pumps					
PumpType	Multi-Stage	Multi-Stage	Multi-Stage	Multi-Stage	Multi-Stage
MotorHP	3	5	5	7.5	7.5
RPM@60Hz	3450	3450	3450	3450	3450
RPM@50Hz	VFDat60Hz	VFDat60Hz	VFDat60Hz	VFDat60Hz	VFDat60Hz
MaximumFeedTemperature ° F(° C)	85(29)		MaximumFreeChlorineppm		0
MinimumFeedTemperature ° F(° C)	40(4.4)		MaximumTDSppm		2,000
MaximumAmbientTemperature ° F(° C)	120(48.9)		MaximumHardnessppg		0
MinimumAmbientTemperature ° F(° C)	40(4.4)		MaximumpH(Continuous)		11
MaximumFeedPressurepsi(bar)	85(5.9)		MinimumpH(Continuous)		5
MinimumFeedPressurepsi(bar)	45(3.1)		MaximumpH(Cleaning30Min.)		12
MaximumOperatingPressurepsi(bar)	200(13.8)		MinimumpH(Cleaning30Min.)		2
MaximumSDIRatingSDI	<3		MaximumTurbidityNTU		1