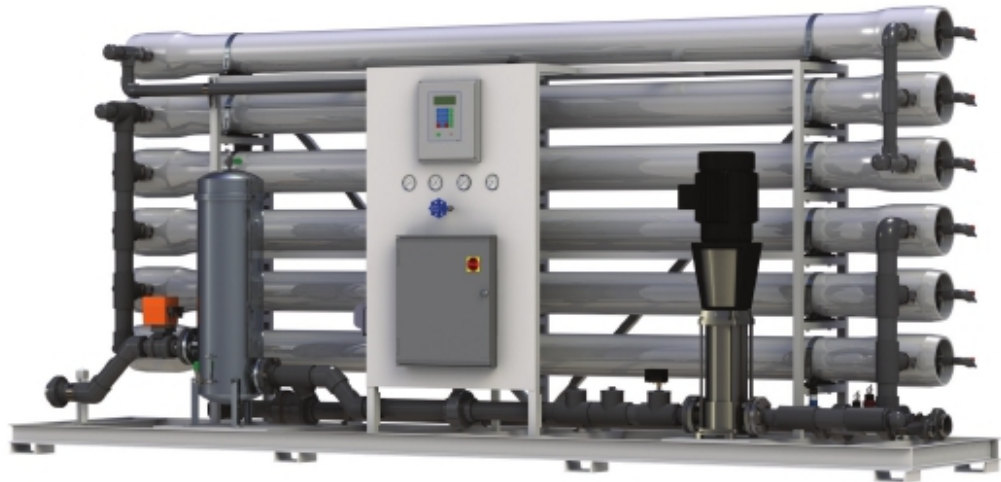




SISTEMAS DE OSMOSIS INVERSA X1

X Series Reverse Osmosis Systems are designed as a cost-effective solution to the growing demand of tap and well water for applications in food and beverage, pharmaceutical, healthcare, microelectronics, power, chemicals and agriculture. **MODEL – 6480**



Industrial Reverse Osmosis System

With models ranging from 22 to 132 gallons per minute (32,000 to 190,000 gallons per day), the smart, clean utilitarian industrial design of the X – Series allows for convenient installation, user-friendly operation and ease of maintenance. These skid-mounted, package systems are pre-plumbed and pre-wired on a powder-coated steel frame complete with a pre-programmed computer controller, TDS probes and panel-mounted pressure gauges and flow instrumentation, allowing for straight forward system monitoring and control. The X – Series Systems utilize energy-efficient ultra low energy membranes with 10% greater membrane surface area than standard 8-inch reverse osmosis elements, thus producing more pure water.

Standard Features

- S – 150 Pre-Programmed Computer Controller*
- S – 200 Pre-Programmed Computer Controller with VFD (Variable Frequency Drive)**
- 8 – inch Low Energy Membrane Elements (440 SF)
- 8 – inch Fiberglass Membrane Housings with Stainless Steel Side Ports (300 psi)
- 5 – Micron Sediment Cartridge Filters
- Multi-Cartridge 304L Stainless Steel Cartridge Housing
- Permeate and Concentrate Rotameters*
- Permeate and Concentrate Digital Paddlewheel Sensors**
- Pre- and Post- Filter Pressure Gauges
- Pump Pressure and Concentrate Pressure Gauges



X – 5280
Industrial Reverse Osmosis System

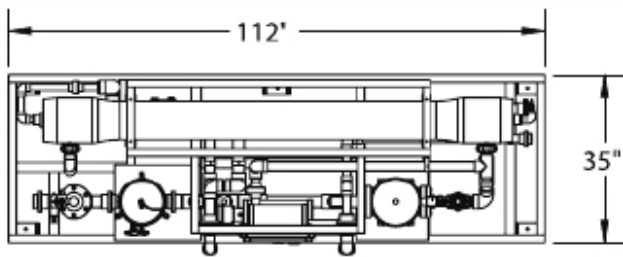
- Feed and Permeate TDS
- Composite Feed Solenoid Valve*
- Motorized Feed Valve**
- Stainless Steel Globe Throttling Valves*
- Low and High Pressure Shut-Off Switches
- Efficient Vertical Stainless Steel Multi-Stage Pump
- Powder Coated Carbon Steel Frame
- Sch80 PVC Piping
- Clean-In-Place (CIP) Ports with Valves
- Permeate Sample Valves
- Chemical Feed Ports
- Chemical Feed Power Outlet
- 220VAC 3PH 60HZ

Options and Upgrades

- S – 200 Computer Controller***
- VFD***
- Programmable Logic Controller (PLC) with Touch Screen
- Permeate and Concentrate Digital Paddlewheel Sensors***
- PVC Feed Motorized Ball Valve***
- Concentrate Recycle Loop with Flow Meter
- PVC Permeate Divert Motorized
- Permeate Flush
- pH Sensor
- ORP Sensor
- Chemical Feed System
- Clean-In-Place Skid-Mounted System
- Voltage Options: 220VAC 3PH 50Hz, 380VAC 3PH 50Hz, 460VAC 3PH 60Hz

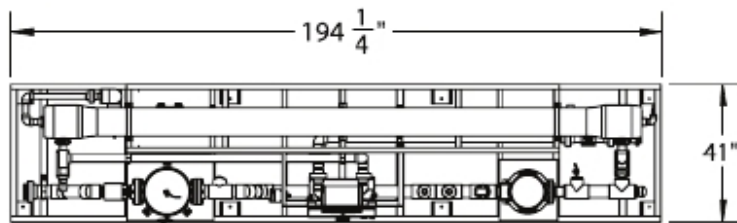
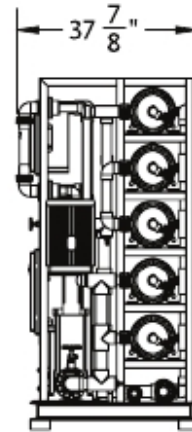
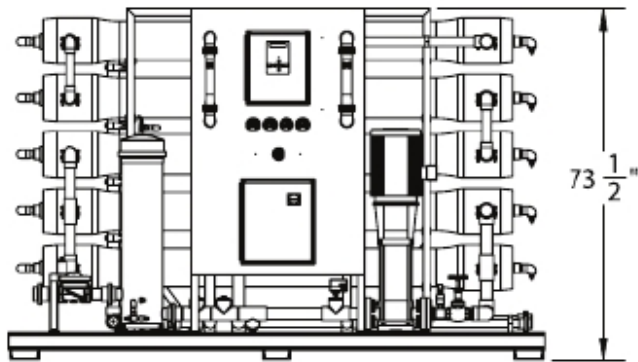
Naming Matrix				
	X1	5	2	80
X-SERIES MODEL				
X1 Tap Water Model				
HOUSING QUANTITY DESIGNATION				
2 2 Vessels				
3 3 Vessels				
4 4 Vessels				
5 5 Vessels				
6 6 Vessels				
MEMBRANE QUANTITY PER HOUSING				
2 2 Membranes				
4 4 Membranes				
8.0 INCH MEMBRANE DIAMETER				





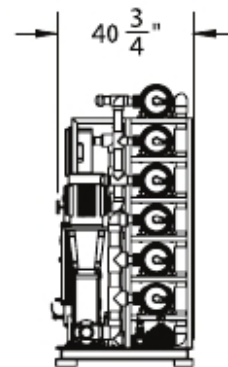
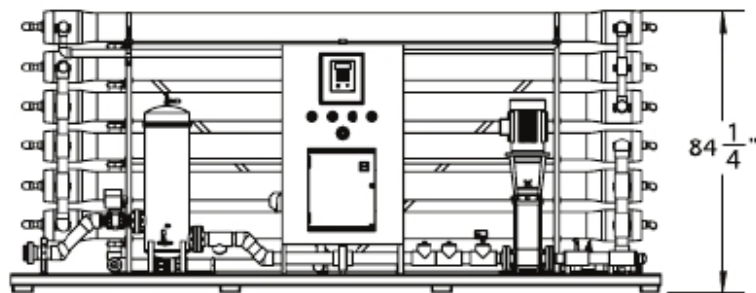
Notes:

1. All dimensions are given in inches.
2. Dimensions given for X – 2280 through X – 5280. (X – 5280 pictured)



Notes:

1. All dimensions are given in inches.
2. Dimensions given for X – 3480 through X – 6480. (X – 6480 pictured)





SISTEMAS DE OSMOSIS INVERSA X1

Product Specifications								
Models	X1-2280	X1-3280	X1-4280	X1-5280	X1-3480	X1-4480	X1-5480	X1-6480
Design								
Configuration	SinglePass	SinglePass	SinglePass	SinglePass	SinglePass	SinglePass	SinglePass	SinglePass
† FeedwaterSource	TDS <2,000ppm	TDS <2,000ppm	TDS <2,000ppm	TDS <2,000ppm	TDS <2,000ppm	TDS <2,000ppm	TDS <2,000ppm	TDS <2,000ppm
StandardRecovery%	61	70	75	75	75	75	75	75
RecoverywithConcentrate Recyclegpm%	80	80	80	N/A	N/A	N/A	N/A	N/A
RejectionandFlowRates								
††† NominalSaltRejection%	99	99	99	99	99	99	99	99
PermeateFlowRate (gpm/lpm)	22.00/ 83.00	33.00/ 125.00	44.00/ 167.00	55.00/ 208.00	66.00/ 250.00	88.00/ 333.00	110.00/ 416.00	132.00/ 500.00
MinimumConcentrate FlowRate(gpm/lpm)	14/53	14/53	14.6/55	18.3/69	22/83	29/111	36.6/139	44/167
Connections								
FeedConnection(in)	2FNPT	2FNPT	2FNPT	2FNPT	3FNPT	3FNPT	3FNPT	3FNPT
PermeateConnection(in)	11/2FNPT	11/2FNPT	2FNPT	2FNPT	21/2FNPT	21/2FNPT	3FNPT	3FNPT
ConcentrateConnection(in)	11/4FNPT	11/4FNPT	11/4FNPT	11/4FNPT	11/2FNPT	11/2FNPT	2FNPT	2FNPT
Clean-in-PlacePort(in)	11/2FNPT	11/2FNPT	11/2FNPT	11/2FNPT	2FNPT	2FNPT	2FNPT	2FNPT
ChemicalFeedPort(in)	1/2NPT	1/2NPT	1/2NPT	1/2NPT	1/2NPT	1/2NPT	1/2NPT	1/2NPT
Membranes								
Membrane(s)PerVessel	2	2	2	2	4	4	4	4
MembraneQuantity	4	6	8	10	12	16	20	24
MembraneSize	8040	8040	8040	8040	8040	8040	8040	8040
Vessels								
VesselArray	1:1	1:1:1	1:1:1:1	2:1:1:1	2:1	2:1:1	3:1:1	3:2:1
VesselQuantity	2	3	4	5	3	4	5	6
Pumps								
PumpType	Vertical †† Multi-Stage CentrifugalPump	Vertical Multi-Stage CentrifugalPump	Vertical Multi-Stage CentrifugalPump	Vertical Multi-Stage CentrifugalPump	Vertical Multi-Stage CentrifugalPump	Vertical Multi-Stage CentrifugalPump	Vertical Multi-Stage CentrifugalPump	Vertical Multi-Stage CentrifugalPump
MotorHP/KW	10/7.5	10/7.5	10/7.5	10/7.5	15/11	15/11	20/11	20/11
SystemElectrical								
StandardVoltage +AmpDraw	208V-230V, 60Hz,3PH, 28A-27A**	208V-230V, 60Hz,3PH, 28A-27A**	208V-230V, 60Hz,3PH, 28A-27A**	208V-230V, 60Hz,3PH, 28A-27A**	208V-230V, 60Hz,3PH, 40.5A-37A**	208V-230V, 60Hz,3PH, 40.5A-37A**	208V-230V, 60Hz,3PH, 49A**	208V-230V, 60Hz,3PH, 49A**
SystemsDimensions								
† ApproximateDimensions* ††LxWxH(in/cm)	112x35x74/ 284x89x188	112x35x74/ 284x89x188	112x35x74/ 284x89x188	112x35x74/ 284x89x188	194x41x78/ 493x104x198	194x41x78/ 493x104x198	194x41x78/ 493x104x198	194x41x84/ 493x104x213
††† ApproximateWeight (lbs/kg)	1,285/583	1,435/651	1,585/719	1,735/787	2,005/910	2,275/1,032	2,645/1,200	2,910/1,320