SISTEMAS DE ÓSMOSIS INVERSA X2

X2 – Series Reverse Osmosis Systems are engineered to treat demanding feedwater conditions such as high content of dissolved solids. Designed for robust applications requiring high pressures, the **X2 – Series Reverse Osmosis Systems** are ideally suited for brackish water.

X2 – 6480
Industrial Reverse Osmosis System

X2 – Series models range in capacity from 21 to 126 gallons per minute (30,240 to 181,440 gallons per day). Using high efficiency 8 – inch reverse osmosis elements with 10% greater membrane surface area, **X2 – Series Systems** are able to significantly reduce TDS in both municipal and well water sources while producing higher volumes of permeate water. Low energy brackish water membranes are available for cold temperature applications and high rejection brackish water membranes are available for high TDS applications.

The **X2 – Series Systems** feature a pre–programmed computer controller, motorized feed valve, TDS probes and panel–mounted pressure and flow instrumentation. The larger models include digital flow indicators and VFD motor controls. Stainless steel components are used for the vertical multistage pump, cartridge filter housing, high pressure piping and valves, and the side ports on the FRP membrane housings.

Standard Features

- 8 – inch High Rejection Membrane Elements (440 SF)
- 8 – inch Fiberglass Membrane Housings with 316L Stainless Steel Side Ports (450 psi)
- 5 – Micron Sediment Filters
  - Multi–Cartridge 316L Stainless Steel Cartridge Housing
  - Vertical 316L Stainless Steel Multi–Stage Pump
- Low and High Pressure Shut–Off Switches
- S – 150 Pre–Programmed Computer Controller*
- S – 200 Pre–Programmed Computer Controller with VFD (Variable Frequency Drive)**
- Permeate and Concentrate Rotameters*
- Permeate and Concentrate Digital Paddlewheel Sensors**

X2 – 5280
Industrial Reverse Osmosis System

- Feed and Permeate TDS Monitoring
- Pre– and Post–Filter 316L Stainless Steel Pressure Gauges
- Pump Pressure and Concentrate 316L Stainless Steel Pressure Gauges
- Composite Feed Solenoid Valve*
- PVC Feed Motorized Ball Valve**
- 316L Stainless Steel Globe Throttling Valve
- 316L Stainless Steel Globe Concentrate Valve

- Powder Coated Carbon Steel Frame
- Sch80 Low Pressure PVC Piping
- Stainless Steel High Pressure 316L Piping
- Clean–In–Place (CIP) Ports with Valves
- Permeate Sample Valves
- Chemical Feed Ports
- Chemical Feed Power Outlet
- 460 VAC 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***
- PVC Permeate Divert Motorized Ball Valve
- Permeate Flush
- pH Sensor
- ORP Sensor
- Clean–In–Place (CIP) Skid Mounted System
- Chemical Feed System
- Voltage Options: 220VAC 3PH 60Hz, 220VAC 3PH 50Hz, 380VAC 3PH 50Hz

AX Naming Matrix

X2	5	2	80

X-SERIES MODEL

X2	Brackish Water Model

HOUSING QUANTITY DESIGNATION

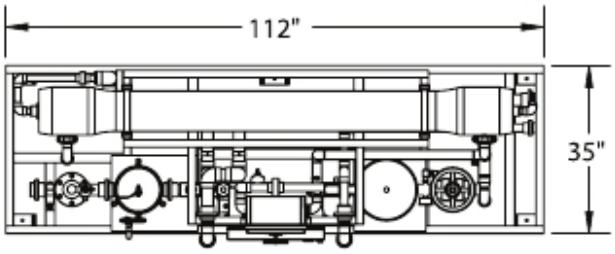
2	2 Vessels
3	3 Vessels
4	4 Vessels
5	5 Vessels
6	6 Vessels

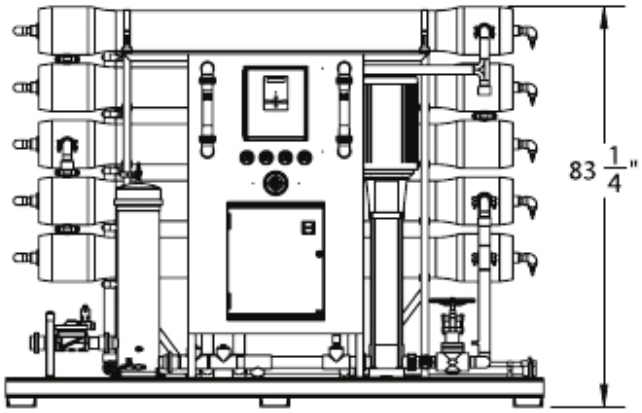
MEMBRANE QUANTITY PER HOUSING

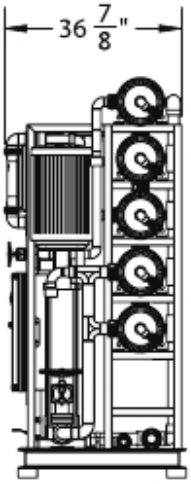
2	2 Membranes
4	4 Membranes

8.0 INCH MEMBRANE DIAMETER

* Standard on Models X2 – 2280, X2 – 3280, X2 – 4280, X2 – 5280.
** Standard on Models X2 – 3480, X2 – 4480, X2 – 5480, X2 – 6480.
*** Option available for Models X2 – 2280, X2 – 3280, X2 – 4280, X2 – 5280. Standard on larger models.



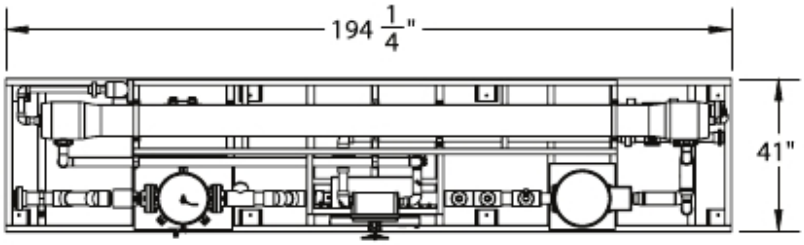


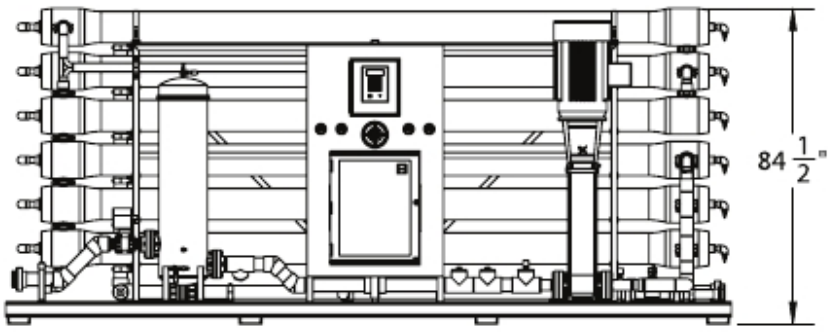


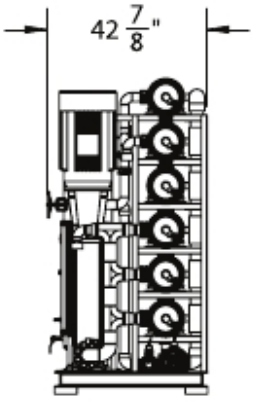
Notes:

1. All dimensions are given in inches.

2. Dimensions given for X2 – 2280 through X2 – 5280. (X2 – 5280 pictured)







Notes:

1. All dimensions are given in inches.

2. Dimensions given for X2 – 3480 through X2 – 6480. (X2 – 6480 pictured)

SISTEMAS DE ÓSMOSIS INVERSA X2

ProductSpecifications								
Models	**X2–2280**	**X2–3280**	**X2–4280**	**X2–5280**	**X2–3480**	**X2–4480**	**X2–5480**	**X2–6480**
Design								
Configuration	SinglePass	SinglePass	SinglePass	SinglePass	SinglePass	SinglePass	SinglePass	SinglePass
Feedwater †TDSmax(ppm)	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000
StandardRecovery%	58	70	73	73	73	70	70	73
††† **RejectionandFlowRates**								
NominalSaltRejection%	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
PermeateFlowRate (gpm/lpm)	21.00/ 79.50	31.50/ 119.00	42.00/ 159.00	52.50/ 198.70	63.00/ 238.40	84.00/ 318.00	105.00/ 397.00	126.00/ 477.00
MinimumConcentrate FlowRate(gpm/lpm)	15/57	13.5/51	15.3/58	19.42/73.51	23.3/88.20	36/136	45/170	46.6/176.40
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	2:1:1	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	15/11	15/11	25/19	25/19	25/19	40/30	40/30	50/37
SystemElectrical								
StandardVoltage +AmpDraw	460V,60Hz, 3PH,19A**	460V,60Hz, 3PH,19A**	460V,60Hz, 3PH,31A**	460V,60Hz, 3PH,31A**	460V,60Hz, 3PH,31A**	460V,60Hz, 3PH,48.5A**	460V,60Hz, 3PH,48.5A**	460V,60Hz, 3PH,58.5A**
SystemsDimensions								
ApproximateDimensions* LxWxH(in/cm)	112x35x74/ 284x89x188	112x35x74/ 284x89x188	112x35x74/ 284x89x188	112x35x84/ 284x89x213	194x41x78/ 493x104x198	194x41x78/ 493x104x198	194x41x78/ 493x104x198	194x41x84/ 493x104x213
ApproximateWeight (lbs/kg)	2130/970	2450/1110	3040/1380	3340/1520	4100/1860	4490/2040	5280/2400	5640/2560