



INDUSTRIAL REVERSE OSMOSIS

With Uptime®

PRECISION-DRIVEN DESIGN

EllisLudell engineers bring extensive expertise to every stage of the design and manufacturing process, ensuring precision and efficiency. Using advanced tools for rendering technical drawings, they work closely with customers to refine designs and enhance performance. Their hands-on approach ensures high-quality, tailored solutions that meet the demands of industrial applications.

PRODUCT FEATURES

Capacity: 5 to 500 gpm

- High Recovery Rate
- Optimal Energy Efficiency
- Automated Controls and Monitoring
- Durability and Corrosion Resistance
- Scalability and Customization

Available Options:

- Softeners
- Granular Activated Carbon (GAC)
- Pre-Treatment Chemical Pumps
- Cleaning Systems (CIP - Clean-in-Place)
- Advanced Control Panels with Remote Monitoring

PRODUCT APPLICATIONS

- Post Media Filter
- Post Ultrafiltration (UF)
- Post Nanofiltration (NF)
- Pre Electrodionization (EDI)
- Post Softening Ion Exchange
- Pre Mixed Bed Ion Exchange
- Boiler Feed Water Treatment
- Process Water
- Industrial Wastewater Recycling and Reuse

Model Number	Permeate Flow Rate		Banking Arrangement	Dimensions			Elements Quantity	Design Pressure†
	gpm	gpd*		Per Stage	Width	Length		
UptimeRO-15	15	21,600	1:1:1:1	36"	48"	54"	4	150
UptimeRO-20	20	28,800	2:2:1	48"	48"	54"	5	150
UptimeRO-25	25	36,000	3:2:2	48"	48"	54"	7	150
UptimeRO-30	30	43,200	3:3:2	48"	48"	54"	8	150
UptimeRO-35	35	50,400	3:3:3	48"	48"	54"	9	150
UptimeRO-40	40	57,600	4:3:3	60"	48"	54"	10	150
UptimeRO-50	50	72,000	4:4:4	60"	48"	54"	12	150

Note: Standard flow rates shown above. Other sizes are available.

* Based on 24-hour Operation

† Pressure Required for Minimum Pressure

Design Criteria	Unit	Value
Minimum Temperature	F	50
Design Pressure	psi	150
Maximum Inlet TDS	mg/l	700
Recovery Rate‡	%	75
Element Size	Inches	8
Elements Per Vessel	Quantity	One (1)
Internal Recycle Included	-	Yes

‡ Based on average city water tds, hardness, and other constituents. A water quality analysis from the facility should be sent prior to issuing a PO. If water quality falls outside the norm, modifications to the RO design may be required.



Specifications Continued on Other Side



SPECIFICATIONS Continued

Reverse Osmosis Specifications	Description
Vessel Manufacturer	Pentair
Vessel Model Number	80S30-1D5D
Membrane Manufacturer	Toray
Membrane Model Number	TMG20D-400
Pump Manufacturer	Grundfos
Pump Control	VFD
Voltage	230/460 (Please Specify with PO)

Controls Specification	Description
Controls Type	Uptime®
Controls Components Manufacturer	B&R
HMI Size	15"
Panel Quantity	Two (2) – High and Low Voltage

Instrumentation	
Inlet Temperature RTD	Included
Inlet pH Transmitter	Included
Inlet ORP Transmitter	Included
Inlet Pressure Switch	Included
Permeate Conductivity	Included
Permeate Flow Meter/Gauge	Included
Concentrate Flow Meter/Gauge	Included
Vessel Inlet Pressure Transmitter	Included (1) Per Vessel
Vessel Concentrate Pressure Transmitter	Included (1) Per Vessel
Pressure Transmitters Feed Pump Discharge	Included
Pressure Gages (Pre-Filter and Post Filter)	Included



More Than Data, Diagnostics & Alerts

Uptime® goes beyond diagnostics. Stay ahead of equipment issues, by simply scanning a QR code and have instant access to troubleshooting and repair guidance. Minimize downtime with fast, targeted support right when you need it.

- Immediate Access to Extensive Video Library
- Pinpoint Alerts
- Practical Training Anytime, Anywhere
- Real-time Data



For more information visit our website: ellisludell.com



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