



VANTAGE® M41 SELECT (RS) SERIES REVERSE OSMOSIS UNITS

THE CLEAR ADVANTAGE IN MEMBRANE SYSTEMS

Vantage[®] Reverse Osmosis (RO) units are pre-engineered and pre-assembled units designed for a variety of industrial and commercial applications. Vantage RO units offer you the greatest flexibility possible from a standard unit. Product lines within the Vantage single-pass RO family include the MicRO-Flex, M21, M41GP, M43, M83, M84 and M86; each designed for a specific range of flow rates.

Each M41 RS series RO unit consists of a vertical centrifugal high pressure feed pump with Optional Variable Frequency Drive (VFD), your choice of fiberglass reinforced plastic (FRP) or stainless steel (SST) pressure vessels, full-fit spiral wound thin-film composite (TFC) membranes, PVC/PEX low pressure feed, reject, recycle and product piping, stainless steel high pressure piping/rubber hose and a microprocessor controller.

Vantage M41 RS Unit Benefits

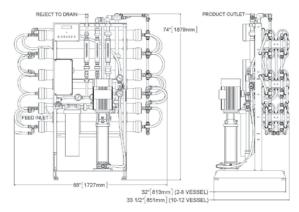
- Low energy TFC full fit membranes ensure optimum water quality
- Optional SST or FRP pressure vessels
- · Microprocessor-based controller provides user-friendly programmable controls
- Optional VFD Controlled Feed Pump
- Auxiliary equipment interface provides system-wide control
- Reject recycle maximizes water recovery and minimizes waste
- Compact footprint saves valuable floor space
- Configurable in horizontal or vertical RO housing orientation to either
 maximize membrane serviceability or minimize footprint
- Easily expandable between 2 to 12 membrane units to provide increased flow demand to meet customer requirements and future needs (see equipment specifications for available expansion options)
- All M41RS (Select) units come standard with an RSVP (validation package) including NIST traceable calibrated certifications, certificates of conformance, and a installation/operational qualification (IOQ) protocol document



M41RS 12 MEMBRANE VERTICAL UNIT

MODEL NO	Flow Rate Specifications GPM Nominal (m ³ /hr)										Customer Connection Specifications (FNPT)			Approximate Shipping Weight			
	Product		Feed		Reject		Reject/ Recycle		Vessel Staging	Membrane Quantity	Feed	Product	Reject	Horizontal Orientation		Vertical Orientation	
	gpm	m³/hr	gpm	m³/hr	gpm	m³/hr	gpm	m³/hr						lb	kg	lb	kg
M41RS002	2.8	0.6	3.7	0.8	0.9	0.2	5.0	1.1	1:1	2	1″	3/4″	1/2″	380	172	380	172
M41RS003	4.0	0.9	5.3	1.2	1.3	0.3	4.0	0.9	1:1:1	3	1″	3/4″	1/2″	412	187	412	187
M41RS004	5.2	1.2	6.9	1.6	1.7	0.4	3.0	0.7	1:1:1:1	4	1″	3/4"	1/2″	443	201	443	201
M41RS005	6.3	1.4	8.4	1.9	2.1	0.5	3.0	0.7	1:1:1:1:1	5	1″	3/4″	1/2″	475	215	475	215
M41RS006	7.5	1.7	10.0	2.3	2.5	0.6	2.0	0.5	1:1:1:1:1:1	6	1″	3/4"	1/2″	510	231	511	232
M41RS008	10.0	2.3	13.3	3.0	3.3	0.7	4.0	0.9	2:2:1:1:1:1	8	1″	1″	1/2″	540	245	558	253
M41RS010	12.5	2.8	16.7	3.8	4.2	1.0	6.0	1.4	3:2:2:1:1:1	10	1″	1″	1/2″	608	276	623	283
M41RS012	15.0	3.4	20.0	4.5	5.0	1.1	5.0	1.1	3:3:2:2:1:1	12	1″	1″	1/2″	640	290	688	312

DIMENSIONS

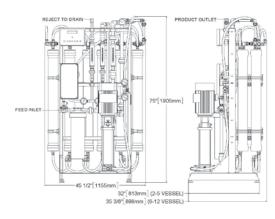


NOMINAL DESIGN PARAMETERS

Configuration	Multi-Stage, Single Pass					
Feed Water Source	Well or Softened					
Prefiltration Requirements	5μ nominal (included)					
Feed Water Fouling Index	Silt Density Index (SDI) < 3					
Feed Water Temperature	65°F (18.3°C)*					
Inlet Pressure Requirement	25 - 50 PSIG (172 - 345 KPA)					
Product Pressure Available	15 PSIG (103 KPA)					
System Recover (Nominal)	75%					
Performance Basis	A specific computer projection must be run for each individual application.					

* Lower temperature may require larger booster pump.

If any of the feed water parameters are not within the limits given, contact Evoqua Water Technologies Technical Support.



EVOQUA

WATER TECHNOLOGIES

210 Sixth Avenue, Suite 3300, Pittsburgh, PA 15222

+1 (866) 926-8420 (toll-free) +1 (978) 614-7111 (toll)

www.evoqua.com/water

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