WATER TREATMENT SYSTEM

RO 200 Series

DIN KLIMAPARTNER

SA KLIMA & FUGTTEKNIK

RO 200 Series:

- *Vapor-logic® control with top end control communication/alarms*
- *Heavy duty frame, rotary vane pump, brass inlet solenoid valve, stainless steel membrane housings*
- *Hygienic design with inactivity flushes*
- *Removes over 98% of dissolved solids*
- *Built in sediment and activated carbon filters*

driSteem

SUSTAINED QUALITY AND DEPENDABILITY

RO 200 SERIES
Designed specifically for DriSteem equipment, but also perfect for stand-alone operation, the 200 series compact reverse osmosis system fits in small spaces and produces high purity water from tap, softened, or well water.

DriSteem 200 series reverse osmosis systems are designed to produce low-dissolved-solids water from tap or well water. These systems employ high-efficiency, low-energy membranes and run at high recovery rates with low maintenance and operating costs. Carbon filters for chlorine removal and prefilter cartridges for sediment removal, are upstream from the RO membrane. The systems are mounted, packaged, and ready to operate right out of the box.

SYSTEM FEATURES

- Compact, heavy-duty, powder-coated carbon steel frame
- Proven components used throughout the system
- Conservatively engineered for reliable long-term performance
- Factory tested to ensure trouble-free operation
- Thin film composite membranes in stainless steel vessels
- Carbon block and 5-micron sediment prefilters in housings
- Automatic inlet feed solenoid valve
- System and recycle control valves
- Low-pressure switch pump protection
- High-pressure RO pump
- Two pressure gauges: concentrate in and concentrate out
- Three panel-mounted flow meters: permeate, concentrate, and recycle flow
- Optional on-board 4.4 gallon (17 L) RO permeate storage tank

Learn More

COMPREHENSIVE CONTROL WITH VAPOR-LOGIC CONTROLLER

DriSteem offers the most advanced controller, Vapor-logic®, available for 200 series RO systems, delivering improved communications and comprehensive management.

Alarms quickly inform the users of issues or changes for easy monitoring facilitating corrective action of the system.

Building on DriSteem's tradition of innovations, Vapor-logic makes these RO systems the first interoperable systems available using BACnet, Modbus, and LonTalk. It also provides web access allowing users to easily make changes from a PC. The Vapor-logic firmware can be easily updated using just a USB/memory stick and provide historical operating data for 21 days (at 1 minute intervals).

Table 3-1:
RO station electrical specifications and weights

Model	Motor HP	Volts*/Amps	Phase/Frequency	Approximate shipping weight**	Operating weight**	Noise***
201	1/3	110-120 VAC/6.6A (208-240 VAC/3.5A)	1/60Hz 1/50Hz	118 lbs. (54 kg)	142 lbs. (64 kg)	49 dBA min. 58 dBa max.
202				124 lbs. (56 kg)	148 lbs. (67 kg)	
203				130 lbs. (59 kg)	154 lbs. (70 kg)	

* Select specific voltage, phase, and frequency at the time of order
** Tank bladder pressure = 28 psi, tank full at 50 psi
*** Noise measurements taken 6.5' (2 m) in front of the RO-200 water treatment system.

Table 3-2:
RO station specifications

Model	201	202	203
Rated capacity, permeate			
Gallons/minute (L/min)	0.2 (0.76)	0.4 (1.5)	0.6 (2.3)
Concentrate flow (reject) [1]			
Gallons/minute (L/min)	0.6 - 1.1 (2.3 - 4.2)	0.7 - 1.2 (2.6 - 4.5)	0.5 - 1.0 (1.9 - 3.8)
Recirc flow (adjustable as needed) [1, 2]			
Gallons/minute (L/min)	0 - 0.5 (0 - 1.9)	0 - 0.5 (0 - 1.9)	0 - 0.5 (0 - 1.9)
System pressure, psi (pump pressure through membranes)	100 - 150 (689 - 1034)	100 - 150 (689 - 1034)	100 - 150 (689 - 1034)
°F (°C)	50 (10)	50 (10)	50 (10)
Pre-filters			
Sediment cartridge - 5 micron	1	1	1
Carbon cartridge - 10 micron	2	2	2
Pressure sensor settings			
Low pressure (for pump protection) psi (kPa)	8 psi (55 kPa)	8 psi (55 kPa)	8 psi (55 kPa)
Supply water connection dia., inches[3]	1/2" FNPT		
RO system permeate water outlet connection dia., inches	3/8" female tube connection		
Common drain outlet connection dia., inches	1" hose barb		
Minimum water flow	0.8 gallons/min (3.03 L/min)		

[1] Reduce concentrate flow by the amount of recirc flow used to maintain the recommended maximum system level.
[2] Recirc flow usage will reduce water but may decrease membrane life.
[3] 40 psi (280 kPa) dynamic minimum supply water pressure.

NOTES:

1. All systems rated at 50°F (10°C) using 1000 ppm sodium chloride (NaCl) solution. System capacity decreases significantly with decrease in feed water temperature.
2. Chlorine requirements for the membrane feed water are:
   - Thin-Film (standard) 0 ppm
3. Feed water must be filtered to a turbidity of less than 1 NTU.
4. System recovery (permeate to concentrate ratio) must be maintained at the recommended level. A higher than recommended recovery will lead to a premature fouling of the membrane with a loss of permeate flow and permeate quality.
5. Recommended minimum clearances if:
   - space above the unit is 24" or greater (610 mm): allow 6" (152 mm) left, right and rear and 24" (610 mm) front
   - space above the unit is less than 24" (610 mm): allow 6" (152 mm) left and right and 24" (610 mm) front and rear

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Expect quality from the industry leader
Since 1965, DriSteem has been leading the industry with creative and reliable humidification solutions. Our focus on ease of ownership is evident in the construction of DriSteem products. DriSteem leads the industry with a Two-year Limited Warranty and optional extended warranty.

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