

PURE WATER

Series PWR8024 Commercial Reverse Osmosis Systems

Watts Pure Water Series PWR8024 reverse osmosis (RO) systems offers flexible programming, robust construction, and permeate rates from 40 to 120 gpm (151-453 lpm). The operator can adjust key functional parameters of the system to tailor system operation to each application.

Our conservative design approach ensures that the RO membranes are operated according to the membrane manufacturer's guidelines. This reduces the potential for membrane fouling that often occurs on systems with undersized pumps.



PWR80243205

Standard Features

- Powder coated steel frame
- FRP multi-port pressure vessels
- 316 SS Pre-filter housing
- Heavy-duty multi-stage centrifugal pump
- Electronic Controller with feed and product water conductivity meter, percent ionic rejection, and alarm output
- Automatic inlet valve
- Low-pressure shutdown with automatic restart
- Tank level input
- Pretreatment interlock input
- Adjustable reject recycle
- Prefilter pressure gauges
- Programmable concentrate flush (Auto Flush)
- Panel mounted liquid filled pressure gauges
- Product, reject, and reject recycle flow meters
- Product check valve

⚠ WARNING

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

Performance

Maximum Productivity (gallons per minute)	40	60	80	100	120
Quality (typical membrane percent rejection)	99%				
Recovery (adjustable)	65% - 75%				
Membrane Size	8" x 40"				
Membrane Array (four elements per vessel)	1:1	2:1	2:2	3:2	3:2:1
Prefilter (system ships with five micron cartridges)	7 round x 40"				
Feed Water Connection	2" Flange	2.5" Flange	3" Flange		
Product Water Connection	2" Flange		2.5" Flange		
Reject Water Connection	1.5" Flange				
Feed Water Required (GPM at 65% recovery)	62	93	123	154	185
Minimum Feed Water Pressure	20 PSIG				
Drain Required (maximum)	62	93	123	154	185
460 VAC, 3-phase, 60Hz (other voltages available)	25 amps	30 amps	35 amps	40 amps	
Motor Horse Power (TEFC Motor)	15	20	25	30	
Dimensions L x D x H (approximate)	196" x 41" x 70"				
Shipping Weight (estimated pounds)	2500	2800	3200	3500	3800

Ordering Information

Part Number	Description
PWR80243085	40 GPM Reverse Osmosis System with Micro Processor Controller and Auto Flush
PWR80243125	60 GPM Reverse Osmosis System with Micro Processor Controller and Auto Flush
PWR80243165	80 GPM Reverse Osmosis System with Micro Processor Controller and Auto Flush
PWR80243205	100 GPM Reverse Osmosis System with Micro Processor Controller and Auto Flush
PWR80243245	120 GPM Reverse Osmosis System with Micro Processor Controller and Auto Flush

NOTICE

- Maximum production based on a feed water of 77°F, SDI < 3, 1000 ppm TDS, and pH 7.6. Individual membrane productivity may vary (± 15%). May be operated on other feed waters with reduced capacity.
- Percent rejection is based on membrane manufacturer's specifications; overall system percent rejection may be less.



A Watts Water Technologies Company

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