

Series R14

Commercial RO Systems

Watts Series R14 reverse osmosis (RO) systems provide permeate rates from 3600 to 10800 gallons per day (13626 to 40878 liters per day). They combine rugged design and high output with small space requirements and ease of service. We use fiberglass reinforced plastic membrane housings for superior corrosion resistance.

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.

Standard Features

- Powder coated steel frame
- Fiberglass reinforced plastic membrane housings
- 4 1/2" X 20" Pre-filter
- Heavy-duty multi-stage centrifugal pump
- Automatic inlet valve
- Low-pressure shutdown with delayed automatic restart
- Tank level input
- Pretreatment interlock input
- Adjustable reject recycle
- Prefilter pressure gauges
- Liquid filled pump discharge, and reject pressure gauges
- Product, reject, and reject recycle flow meters
- Product check valve
- Electronic controller with product water conductivity meter
- Programmable concentrate flush (Auto flush)

Ordering Information

PART NUMBER	DESCRIPTION
R14-02-1131100	3600 GPD Reverse Osmosis System with Micro Processor Control and Auto Flush
R14-03-1131100	5400 GPD Reverse Osmosis System with Micro Processor Control and Auto Flush
R14-04-1131100	7200 GPD Reverse Osmosis System with Micro Processor Control and Auto Flush
R14-05-1131100	9000 GPD Reverse Osmosis System with Micro Processor Control and Auto Flush
R14-06-1131100	10,800 GPD Reverse Osmosis System with Micro Processor Control and Auto Flush

⚠ WARNING

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



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Performance

Maximum Productivity (gallons per day)	3600	5400	7200	9000	10,800
Quality (typical membrane percent rejection)	98 %				
% Recovery (adjustable)	25-75	36-75	42-75	46-75	50-75
Membrane Size	4" x 40"				
Number of Membranes	2	3	4	5	6
Prefilter (system ships with one 5 micron cartridge)	20" BB				
Feed Water Connection	1" FNPT				
Product Water Connection	3/4" FNPT				
Reject Water Connection	3/4" FNPT				
Feed Water Required (GPM at 50% recovery)	5	7.5	10	12.5	15
Feed Water Pressure (minimum)	20 psi				
Drain Required (maximum)	15 gpm				
Electrical Requirement (other voltages available)	230 VAC, 3-phase, 60 Hz, 15 amps				
Motor Horse Power/Type	5/TEFC				
Dimensions W x D x H (approximate)	51" x 18" x 57"				
Shipping Weight (estimated pounds)	400	500	600	700	800

NOTICE

- Maximum production based on a feed water of 77°F, SDI < 3, 1000 ppm TDS, and pH 8. 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.



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