

## Series R44



### Commercial RO Systems

Watts Series R44 reverse osmosis (RO) systems provide permeate rates from 20 to 30 gpm (76 to 114 lpm) and are engineered to guarantee reliable performance and smooth operation. We combine quality components with a serviceable layout to bring you a system that provides top performance year after year.

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.



Series R44

### Standard Features

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

### Ordering Information

PART NUMBER	DESCRIPTION
R44-16-1131100	20 GPM Reverse Osmosis System with Micro Processor Controller and Auto Flush
R44-20-1131100	25 GPM Reverse Osmosis System with Micro Processor Controller and Auto Flush
R44-24-1131100	30 GPM Reverse Osmosis System with Micro Processor Controller 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.

### Performance

<b>Maximum Productivity</b> (gallons per minute)	20	25	30
<b>Quality</b> (typical membrane percent rejection)	98 %		
<b>Recovery</b> (adjustable)	65 - 75 %		
Membrane Size	4" x 40"		
<b>Membrane Array</b> (four elements per vessel)	2:2	3:2	4:2
<b>Prefilter</b> (system ships with 5 micron cartridges)	7 round x 20"		
Feed Water Connection	2" Flange		
Product Water Connection	1.5" Flange		
Reject Water Connection	1" Flange		
<b>Feed Water Required</b> (GPM at 65% recovery)	31	39	46
Minimum Feed Water Pressure	20 psig		
<b>Drain Required</b> (maximum)	31	39	46
<b>Electrical Requirement</b> (other voltages available)	230 VAC, 3-phase, 60 Hz, 20 amps		
<b>Motor Horse Power / Type</b>	10 / TEFC		
<b>Dimensions L x D x H</b> (approximate)	186" x 26" x 75"		
<b>Shipping Weight</b> (estimated pounds)	1400	1600	1800

#### 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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