The Barnstead Pacific RO system is a modularly designed laboratory reverse osmosis system specifically developed for functional and economical production of high-purity water.

Product Features

- Five system options with permeate flows of 7, 12, or 20 L/h
- Space-saving design allows system to sit on the laboratory bench or be mounted on the wall
- RO membrane removes organic and inorganic contaminants, microorganisms, particles and colloids



Routine Laboratory Work

- Rinsing lab glassware
- Supplying autoclaves, water baths and incubators
- Preparing and diluting buffers and reagents
- General biotechnology

Reliable operation

• Microprocessor control offers automatic operation with continual monitoring of all important parameters

Easy-to-operate clear display

- Resistivity/conductivity clearly displayed on large back-lit control panel that tilts for optimum viewing
- Status of current operating mode clearly indicates "production", "stand-by", or "rinsing" modes
- Reservoir fill-level shown as %

Integrated feed water monitoring

• Good quality feed water is a prerequisite for high purity water and extends cartridge service life

GLP-compliant documentation

- Real-time clock records system errors and faults
- Ongoing data storage collects four weeks information displayed in clear text
- Operating system is code-protected to prevent unauthorized changes to system settings
- RS-232 interface with adjustable sender interval allows for customized timing of data transmission of measured values and faults to a PC or data printer
- Cell constant of 0.16 cm⁻¹ ensures precise conductivity measurements

Pacific RO pretreatment

 Two 10 inch (25.4 cm) cartridge filter housings with a 5 µm prefilter + activated carbon to prevent entry of particles >5 µm and high concentrations of free chlorine. Also includes hardness stabilizer cartridge which binds calcium and prevents its precipitation.

Worry-free pure water storage

- Reservoir are constructed of pigment-free polyethylene
- Conical bottom allows for easy cleaning, disinfecting and complete emptying

Flexible configurations for your RO water needs

Quick Look Comparison						
	Pacific RO 7 L/hr systems	Pacific RO 12 L/hr systems	Pacific RO 20 L/hr systems			
Pure water production at 15 °C, L/h	7	12	20			
Salt retention, %	98	98	98			
Retention, bacteria and particles, %	99	99	99			

Feed Water Requirements*	
Source	Potable tap water that has been softened or hardness stabilized
Silt density index (SDI)	<5, With higher values, a pretreatment (model no. 09.4000 must be installed upstream of the system)
Conductivity, µS/cm	<1500
Prefiltration	5 µm + activated carbon
Free chlorine, mg/L	<0.1
pH-range	4-11
Temperature, C°	2-35

* Complete list of feed water specifications can be found in the operational manual.



Barnstead Pacific RO water purification systems (continued)

Storage Reservoir					
Volume	Material	Dimensions			
30 L		23.5 x 14.9 in (598 x 380 mm)			
60 L	Polyethylene, opaque to light	35.9 x 14.9 in (912 x 380 mm)			
100 L		49.2 x 14.9 in (1249 x 380 mm)			

Pacific RO Product Specifications					
Operating pressure, psi (bar)	Electrical requirements	Power consumption	Feed water connector	Dimensions W x D x H	Temperature
29-87 (2-6)	90-240 V, 50/60 Hz	0.1 kW	3/4" NPT	14.6 x 13 x 23.7 in (372 x 330 x 603 mm)	2-35 °C

Ordering Table	Pacific RO 7	Pacific RO 12	Pacific RO 20
Pacific RO Systems* All systems have an integrated wall bracket and include an RO membrane	50132386	50132387	50132388
Required Accessories			
Pacific RO Pretreatment Includes two 10 inch (25.4 cm) cartridge housings, a 5 μm prefilter + activated carbon cartridge and hardness stabilizer cartridge	09.4000	09.4000	09.4000
Pacific RO Reservoir Choose a reservoir that fits your needs	See "Storage Reservoir Options" the next page		
Optional Accessories			
Water watcher Alerts the user to leaks. Available as 230 V, 50 Hz only.	16.0129	16.0129	16.0129
Replacement Consumables			
Reverse Osmosis membrane Pacific RO 7, 12 only require a single RO membrane. Pacific RO 20 requires two membranes as indicated.	22.0046	22.0046	22.0046 (order 2)
5 µm prefilter + activated carbon 10 inch cartridge	06.5201	06.5201	06.5201
Hardness stabilizing 10 inch cartridge	06.5452	06.5452	06.5452

* 🗶 🤆

Storage Reservoir Options for Pacific RO		30 L	60 L	100 L
Reservoir	with level display	50155495	50155500	50155503
Required Accessories				
Sterile overflow for reservoir		06.5001	06.5001	06.5001
Vent filter	Sterile filter, 0.2 µm	50135142	50135142	50135142
Optional Accessories				
Wall mounting bracket		06.5015	06.5016	na