

## Thermo Scientific Water Purification Systems

### Reverse Osmosis Water Systems



#### **Thermo Scientific Barnstead Pacific RO pure water purification systems**

The Thermo Scientific Barnstead Pacific RO water purification systems are modularly designed laboratory reverse osmosis system for the production of 20 to 200 liters pure water from tap water. Applications include routine laboratory work: lab glassware rinsing, supplying autoclaves, water baths and incubators, preparing an diluting buffers and reagents. A 30, 60, or 100L polyethylene reservoir is required to store and dispense the permeate water.

#### **Product features:**

Space-saving design allows system to sit on the laboratory bench or be mounted on the wall. Simple system upgrade accommodates future pure water capacity requirements.

##### **Reliable operation**

Microprocessor control offers automatic operation with continual monitoring of all important parameters. Required filling level of the reservoir can be customized. Automatic return to operating mode ensures recirculation during periods of standstill.

##### **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”, “cleaning” 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<sup>-1</sup> ensures precise conductivity measurements.

##### **Pacific RO pretreatment**

Two 10 in. (25.4cm) cartridge filter housings with a 5µm prefilter + activated carbon to prevent entry of particles >5µm and high concentrations of free chlorine 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.

#### **Specifications:**

Permeate flow rate at 15°C	3, 7, 12, 20 or 40 L/hr depending on model
Operating pressure	2 to 6 bar
Salt retention	98%
Removal bacteria & particles	99%

Temperature	2° - 35°C
Electrical Requirements	90-240V/50 Hz
Power Consumption	0.1 kW
Feedwater connector	R 3/4 inch
Dimensions WxDxH	372x330x603 mm
Dimensions reservoir D x H	380 x 598 (30 L), 380 x 912 (60L) or 380 x1249 mm (100L)

## Ordering information

Ordering Table	Pacific RO 3	Pacific RO 7	Pacific RO 12	Pacific RO 20	Pacific RO 40
<b>Pacific RO Systems</b> All systems have an integrated wall bracket and include an RO membrane and pressure regulator	50132385	50132386	50132387	50132388	50132389
<b>Required Accessories</b>					
<b>Pacific RO Pretreatment</b> 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	09.4000	09.4000
<b>Pacific RO Reservoir</b> Choose a reservoir that fits your needs	See "Storage Reservoir Options" the next page				
<b>Optional Accessories</b>					
<b>Water watcher</b> Alerts the user to leaks. Available as 230V only.	16.0129	16.0129	16.0129	16.0129	16.0129
<b>Replacement Consumables</b>					
<b>Reverse Osmosis membrane</b> Pacific RO 3, 7, 12 only require a single RO membrane. Pacific RO 20 and 40 require two membranes as indicated.	22.0046	22.0046	22.0046	22.0046 (order 2)	22.0087 (order 2)
<b>5 µm prefilter + activated carbon 10 inch cartridge</b>	06.5201	06.5201	06.5201	06.5201	06.5201
<b>Hardness stabilizing 10 inch cartridge</b>	06.5452	06.5452	06.5452	06.5452	06.5452
<b>Cleaning solution</b>	Europe/Asia Pacific	09.2202	09.2202	09.2202	09.2202
	North America	CMX25	CMX25	CMX25	CMX25