

The Thermo Scientific Barnstead RO combines water purification innovations, simple operation and a compact, space-saving design. Robust and flexible, it is ideally suited for general lab use such as glassware washing or as a water feed to our Thermo Scientific Barnstead NANOpure, EASYpure II or E-pure ultrapure water systems.

Thermo Scientific Barnstead RO

Reverse Osmosis System



◀ Individual pretreatment cartridges allow single cartridge replacement for low operating costs



Intelligent Controls Monitor Vital Information

Advanced controls automate operation, monitor system performance and pressure, while displaying vital information including membrane performance, reservoir level and cartridge status. Internal gauges monitor incoming water and membrane pressure and indicate when prefilter requires changing.



Multi-Step Purification in a Single System

Delivers multiple purification steps, including the latest innovations in pretreatment and membrane technologies.

Simple Operation and Maintenance

All-in-one system includes all required components including prefilter, MPS cartridge, extruded carbon filter and membrane(s). Optional remote mounting control panel enables control placement up to 10 feet away.

Technology Innovations Optimize Performance

Unique Membrane Protection System (MPS) protects membranes from surface scale build-up, eliminates the need for softening and extends membrane life.

Flexible, Quiet Operation

Flow rates available in 6, 12 or 24 liters/hour for any application. Pump technology enables extremely quiet operation.

Space-Savings, Compact Design

Small footprint is perfect for any size lab and features easy wall or bench mounting (wall bracket included with system).



30-Liter Storage Reservoir

A flexible and compact storage option ensures you have water when you need it. Offering robust construction and safety controls, the reservoir features:

Automatic Operation with the Barnstead RO and Barnstead NANOpure:

Level controls start and stop both the RO and accessory equipment based on water levels.

Excellent Water Quality and Safety:

Fluorinated polyethylene ensures water quality is maintained in storage and vent filter prevents airborne contaminants from entering the reservoir.

Thermo Scientific Barnstead RO Reverse Osmosis System

Specifications								
Cat. No.	Type	Overall Dimensions WxHxD inches (cm)	Voltage	Shipping Weight lbs (kg)	Inlet Pressure	Plumbing Connection (OD Tubing supplied)	% Recovery	Units Include
D12671	6 LPH* (Line Pressure)	13.5 x 9.5 x 16.9 (34.3 x 49.5 x 42.9)	100-240 VAC 47-63 Hz, 1 phase	20.4 kg (45 lb.)	2-6.8 bar (30-100 psig) @1.5 liters per minute	Feed Water- 3/8" Product Water- 3/8" Reject Water- 1/4"	10-20%	Prefilter, MPS Cartridge, Extruded Carbon Filter and One Membrane
D12651	12 LPH*	13.5 x 9.5 x 16.9 (34.3 x 49.5 x 42.9)	100-240 VAC 47-63 Hz, 1 phase	20.4 kg (45 lb.)	2-6.8 bar (30-100 psig) @1.5 liters per minute	Feed Water- 3/8" Product Water- 3/8" Reject Water- 1/4"	10-20%	Pump Prefilter, MPS Cartridge, Extruded Carbon Filter and One Membrane
D12661	24 LPH*	13.5 x 9.5 x 16.9 (34.3 x 49.5 x 42.9)	100-240 VAC 47-63 Hz, 1 phase	20.4 kg (45 lb.)	2-6.8 bar (30-100 psig) @1.5 liters per minute	Feed Water- 3/8" Product Water- 3/8" Reject Water- 1/4"	20-30%	Pump Prefilter, MPS Cartridge, Extruded Carbon Filter and Two Membranes

* Based on inlet pressure of 2 bar (30 psig) and feed water of 25°C

Thermo Scientific Barnstead RO Membrane

Specifications				
pH:	Optimum Range: 6.5-7.5 Operating Range: 4-11			
Temperature Range:	1-35°C (34-95°F)			
Silt Density Index:	<5%			
Turbidity:	< 1.0 NTU			
Maximum TDS:	800 ppm			
Langlier (LSI) Index:	< 1			
Iron Total as Fe:	< 0.5 ppm			
Silica:	< 30 ppm			
% Rejection:	Typical Ionic: 94-99%	Organic: 99% (<100 daltons)	Particulate: 99%	Microbiological: 99%

Accessories

Cat. No.	Description
D12681	30 Liter Reservoir
AY1265X1	Remote Mounting Control Panel Accessory
AY1268X2	Bench Mounting Stand for D12681 Reservoir
D7427	Hot & Cold Water Mixing Valve
D502113	5 Micron Prefilter
D502114	MPS Cartridge
D502115	Extruded Carbon Filter
FL1265X1	Membrane



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