

Thermo Scientific Barnstead MicroPure water purification system

The Barnstead MicroPure system was designed for laboratories that require up to 15 L/day of ultrapure water such as HPLC or other instrumental analyses, sample preparation, glassware rinsing, or molecular biology work in which endotoxins and/or nucleases would interfere.



APPLICATIONS INCLUDE:

Molecular Biology and Microbiology

- Cell and tissue culture
- PCR, DNA sequencing
- Electrophoresis

Analytical Chemistry

- HPLC
- GC, GC-MS, ICP-MS, AA
- TOC Measurements, IC

Smart features

- Backlit display tilts for easy viewing
- Variable speed dispensing
- Optional integrated 6 L feed water reservoir so you can place the system without direct access to a water line

Monitor feed water quality

- Good feed water quality leads to consistently ultrapure water and a longer cartridge service life to maximize cartridge life

Smart design

- Recirculation pump prevents bacterial growth during standstill and allows for constant monitoring of all system functions, allowing for the immediate display of fault messages if a problem is detected
- Systems ship fully equipped with pressure reducer, ultrapure cartridge and 0.2 μm sterile filter

Superior filters

- Ultrafilter is flushed automatically to assure the highest retention of endotoxins and nucleases, which produces a long two year lifetime
- Validated 0.2 μm final filter with folded membrane can be sterilized up to 5 times

UV Photo-oxidation 185/254 nm

- High performance UV assembly reliably reduces the content of microorganisms and their metabolites
- UV oxidation also reduces organic compounds in the water to ultra-low levels

compact system

for small ultrapure water demands

Quick Look Comparison				
	MicroPure system	MicroPure UV system	MicroPure UF system	MicroPure UV/UF system
Applications	Instrumental analytical methods such as AAS, IC, ICP	High-sensitivity instrumental analytical methods, such as HPLC, ICP-MS, TOC-analyses	Molecular biology, cell culture, monoclonal antibodies	Microbiology, molecular biology, PCR, DNA, monoclonal antibodies, cell culture media
Resistance at 25°C, MΩ.cm	18.2	18.2	18.2	18.2
Conductivity, μS/cm	0.055	0.055	0.055	0.055
TOC, ppb	5-10	1-5	5-10	1-5
RNase, ng/ml	n/a	n/a	n/a	<0.003
DNase, pg/μl	n/a	n/a	n/a	<0.4
Bacteria, CFU/mL	<1	<1	<1	<1
Particles, 0.22 μm/mL	<1	<1	<1	<1
Endotoxines, EU/mL	n/a	n/a	<0.001	<0.001
Flow rate, L/min	1.5	1.5	1	1



18.2 MΩ.cm water
in a compact system

Thermo Scientific Barnstead MicroPure water purification system (continued)



Dispense water which allows for drop by drop or quick dispensing



One, two, three...
Rapid cartridge change with Aquastop quick-connect design



The MicroPure-ST series includes an optional 6 L feed water reservoir for pretreated water storage.

Feed Water Requirements*	
Source	Potable tap water pretreated by reverse osmosis, ion exchange or distillation
Feed water conductivity, $\mu\text{S/cm}$	< 5
TOC, ppb	max 50
Turbidity, NTU	< 1.0
Temperature, $^{\circ}\text{C}$	2-35
Pressure, psi (bar)	1.4-87 (0.1-6)

* Please see user manual for complete list of feed water requirements

Product Specifications						
Flow rate	Operating pressure min/max	Electrical requirements	Power consumption	Feed water connector	Dimensions MicroPure (no reservoir) W x D x H in (mm)	Dimensions MicroPure-ST W x D x H in (mm)
up to 1.5 L/min	29-87 psi (2-6 bar)	90-240 V, 50/60Hz	0.06kW	3/4" NPT	12 x 11.8 x 21.5 (305 x 300 x 545)	12 x 15.7 x 21.5 (305 x 400 x 545)

System Options	MicroPure	MicroPure UV	MicroPure UF	MicroPure UV/UF
MicroPure system* All systems include an ultrapure polisher cartridge, sterile 0.2 μm filter, pressure regulator, UV lamp and/or ultrafilter where applicable.	50132366	50132373	50132368	50132370
Stainless steel DI cartridge, DI 1500 Required only when feed water does not meet feed water requirements. Prolongs system cartridge life for line-fed systems. For new installations, 04.1690 is a required hose kit to adapt cartridge to system.	02.1500	02.1500	02.1500	02.1500
Optional Accessories				
Wall mounting bracket	09.2212	09.2212	09.2212	09.2212
Disinfection cartridge Reusable cartridge needed to clean the water purification system. Only for line-fed units.	09.1102	09.1102	09.1102	09.1102

System Options	MicroPure with storage tank	MicroPure UV with storage tank	MicroPure UF with storage tank	MicroPure UV/UF with storage tank
MicroPure with Storage tank system* All systems include a 6L internal reservoir, ultrapure polisher cartridge, sterile 0.2 μm filter, pressure regulator, UV lamp and/or ultrafilter where applicable	50132367	50132374	50132369	50132372
Optional Accessories				
Stainless steel DI cartridge, DI 1500 Required only when feed water does not meet feed water requirements. Prolongs system cartridge life for line-fed systems. For new installations, 04.1690 is a required hose kit to adapt cartridge to system.	02.1500	02.1500	02.1500	02.1500
Wall mounting bracket	09.2212	09.2212	09.2212	09.2212
Replacement Consumables for MicroPure systems and MicroPure with Storage Tank System				
Ultrapure polisher cartridge	09.1006	09.1006	09.1006	09.1006
Sterile filter, 0.2 μm	09.1003	09.1003	09.1003	09.1003
Ultrafilter	n/a	n/a	50133981	50133981
UV lamp	n/a	09.1002	n/a	09.1002
Cleaning solution	Europe/Asia Pacific	09.2202	09.2202	09.2202
	North America/ Latin America	CMX25	CMX25	CMX25

