

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.

Compact system for small ultrapure water demands



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
- Integrated 6 L feed water reservoir so you can place the system without direct access to a water line (MicroPure ST only)

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, UV 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
- 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

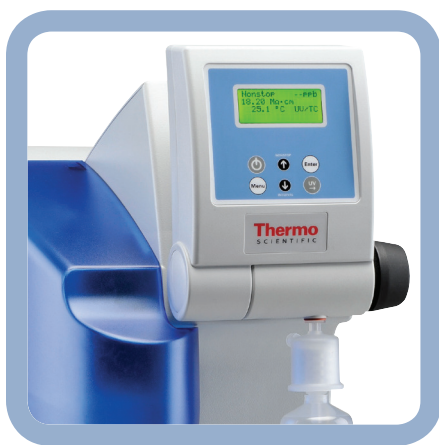
Quick Look Comparison

	MicroPure UV system	MicroPure UV/UF system
Applications	High-sensitivity instrumental analytical methods, such as HPLC, ICP-MS, TOC-analyses	Microbiology, molecular biology, PCR, DNA, monoclonal antibodies, cell culture media
Resistance at 25 °C, MΩ.cm	18.2	18.2
Conductivity, μS/cm	0.055	0.055
TOC, ppb	1-5	1-5
RNase, ng/ml	n/a	<0.003
DNase, pg/μl	n/a	<0.4
Bacteria, CFU/mL	<0.01	<0.01
Particles, 0.22 μm/mL	<1	<1
Endotoxines, EU/mL	n/a	<0.001
Flow rate, L/min	1.5	1



18.2 MΩ.cm water
in a compact system

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 Barnstead MicroPure-ST series includes a 6 L feed water reservoir for pretreated water storage