

thermo scientific



# Thermo Scientific Barnstead MicroPure Ultrapure Water

**ThermoFisher**  
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.

## 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  $\mu\text{m}$  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  $\mu\text{m}$  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



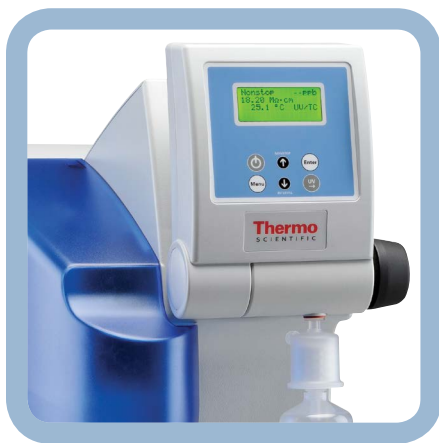
### Quick Look Comparison

	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



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

## 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	Inlet 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 bars)	90-240 V, 50/60 Hz	0.06 kW	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 system\*

All systems include an ultrapure polisher cartridge, sterile 0.2  $\mu\text{m}$  filter, UV lamp and/or ultrafilter where applicable.

### Optional Accessories

#### Wall mounting bracket

#### Pressure Regulator

Recommended where incoming feed pressure is above the specified range

#### Disinfection cartridge

Reusable cartridge needed to clean the water purification system. Only for line-fed units. Use with CMX25 cleaning solution.

System Options	MicroPure UV with storage tank	MicroPure UV/UF with storage tank
<b>MicroPure with storage tank system*</b> All systems include a 6 L internal reservoir, ultrapure polisher cartridge, sterile 0.2 $\mu\text{m}$ filter, UV lamp and/or ultrafilter where applicable	50132374	50132372
<b>Optional Accessories</b> <b>Wall mounting bracket</b>	09.2212	09.2212
<b>Pressure Regulator</b> Recommended where incoming feed pressure is above the specified range	50155462	50155462
<b>Replacement Consumables for MicroPure systems and MicroPure with Storage Tank System</b>		
Ultrapure polisher cartridge	09.1006	09.1006
Sterile filter, 0.2 $\mu\text{m}$	09.1003	09.1003
Ultrafilter	n/a	50133981
UV lamp	09.1002	09.1002
Cleaning solution	CMX25	CMX25

\*  

Find out more at [thermofisher.com/purewater](http://thermofisher.com/purewater)

General Laboratory Use Only. Not for use in diagnostic procedures. © 2013-2019 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. CLSI-CLRW is a trademark of the Clinical and Laboratory Standards Institute. Teflon is a trademark of E.I. du Pont de Nemours and Company. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details. **BRWPBKMICROPURE 0419**

**ThermoFisher**  
SCIENTIFIC