



Barnstead E-Pure Ultrapure Water Purification Systems

E-Pure Ultrapure Water Purification System

The Thermo Scientific™ Barnstead™ E-Pure™ Ultrapure Water Purification System economically produces Type 1 water with low operating costs. Large cartridges provide longer cartridge life and an impressive system flow rate.

Product applications

- Analytical Chemistry
 - HPLC
 - GC, GC-MS, ICP-MS, AA
- Microbiology
 - Buffer preparation
 - Electrophoresis

Product features

- Resistivities up to 18.2 MΩ.cm and TOC levels below 10 ppb
- Virgin polypropylene water pathways prevent recontamination
- Recirculation pump continuously recirculates water throughout the entire system to maintain water purity and reduce the quantity of waste water required for rinse-up
- Wall-mountable and completely assembled for easy installation
- Quarter turn quick release canisters allow for easy cartridge replacement
- 0.2 µm absolute final filter removes bacteria and particulates protecting the integrity of your results
- Digital resistivity meter is automatically temperature compensated to 25 °C, preventing fluctuating readings due to temperature changes
- High-capacity cartridges provide low operating costs
- AquaPro™ digital on-line analytical measurement platform featuring:
 - Large color graphic display
 - Temperature readout
 - Temperature compensated
 - Calibratable

Product accessories

E-Pure Remote Dispenser

- Recirculates water through to tip of dispenser and includes a 0.2 µm final filter
- Delivers water up to 8 ft (2.4 m) from the system
- Ships with a mounting bracket for increased flexibility in choosing a mounting location

E-Pure Low Pressure Pump Protector

- If you are feeding your E-Pure system from a pressurized feed line, it is to your advantage to ensure that the pump is fully protected with the use of the low pressure pump protector
- Interrupts power if pressurized feed water line pressure falls below 5 psig (0.35 kg/cm²)
- Includes 6 ft (1.8 m) cord which plugs directly into the E-Pure
- Complete with 1/4 inch NPT “T” to install in your feed line

Quick look comparison

Resistivity reading	Flow rate
Resistivity at 25 °C, MΩ.cm	18.2
TOC, ppb	<10
Bacteria, CFU/mL	<1
Flow rate, L/min	2



Feed water requirements*

	Requirements
Source	Depending on the cartridge kit chosen – potable tap water, or water treated by reverse osmosis, ion exchange or distillation
Temperature, °C (°F)	4-49 (40-120)
Pressure, psig max	gravity to 100

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

Product specifications

	Overall dimensions W x H x D	Feed water connector	Inlet water temperature
E-Pure 3-holder	31.5 x 28 x 7.5 in (80 x 71.1 x 19.1 cm)	1/4 in NPTF	40-120 °F / 4-49 °C
E-Pure 4-holder	35 x 28 x 7.5 in (88.9 x 71.1 x 19.1 mm)	1/4 in NPTF	40-120 °F / 4-49 °C

E-Pure Water Purification System ordering information

Ships with wall bracket and cartridge o-rings

Electrical requirements	Max flow rates	3-Holder cat. no.	4-Holder cat.no.
120 V	2 L/min	D4631	D4641
240 V	2 L/min	D4632-33	D4642-33



E-Pure Cartridge Kits¹

Choose the cartridge kit according to your feed water and need for organic free water (less than 10 ppb TOC²). Kits include large canister o-rings

System and cartridge kit type	Description	Cat. No.
Pretreated Feed³		
E-Pure 3-Holder Cartridge Kit	Includes 1 pretreatment cartridge, 2 ultrapure cartridges	D5029
E-Pure 3-Holder Cartridge Kit - Organic Free	Includes 1 macropure [®] cartridge, 1 ultrapure cartridge, 1 organic-free cartridge	D5022
E-Pure 4-Holder Cartridge Kit	Includes 1 pretreatment cartridge, 1 ultrapure cartridge, 2 - ultrapure cartridges	D50227
E-Pure 4- Holder Cartridge Kit - Organic Free	Includes 1 macropure [®] cartridge, 1 ultrapure cartridge, 1 ultrapure cartridge, 1 organic-free cartridge	D50228
Tap Feed		
E-Pure 4-Holder Cartridge Kit	Includes 1 pretreatment cartridge, 1 high-capacity cartridge, 2 ultrapure cartridges	D5028
E-Pure 4- Holder Cartridge Kit - Organic Free	Includes 1 macropure [®] cartridge, 1 high-capacity cartridge, 1 ultrapure cartridge, 1 organic-free cartridge	D5023

¹ Required for the operation of the E-Pure Water Purification System

² Feed water must have less than 1 ppm TOC

³ Treated by reverse osmosis, distilled or deionization or combination of technologies

E-Pure Water Purification System accessories

Accessories compatible with both 3-holder and 4-holder model E-Pure Water Purification Systems

Accessories	Description	Cat. No.
0.2 µm final filter ¹		D3750
E-Pure Remote Dispenser	Recirculates water through to tip of dispenser and includes a 0.2 µm final filter. Delivers water up to 8 ft (2.4 m) from the system. Ships with a mounting bracket	D8952
E-Pure Low Pressure Pump Detector	Alerts the E-Pure of an inadequate feed water condition in a pressurized feed line	D2706
E-Pure Cleaning Cartridges	Set of 3	D50223

¹ Required for the operation of the E-Pure Water Purification System



Find out more at thermofisher.com/purewater

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