

Thermo Scientific Barnstead E-Pure water purification system

The Barnstead E-Pure economically produces Type 1 water with low operating costs. Large cartridges provide longer cartridge life and an impressive system flow rate.



Product Features

- Resistivities up to 18.2 M Ω .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 μ m 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

Product Accessories

Remote dispenser

- Recirculates water through to tip of dispenser and includes a 0.2 μ m 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

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

Low water level pump protector

- If feeding your E-Pure from a storage reservoir, it is recommended that a low water pump protector be added to the E-Pure system. This will ensure that the pump is protected in the event the reservoir does not have a sufficient quantity of water to satisfy the requirements of the system.
- Adaptable to most storage reservoirs, providing a 1/2 inch NPT connection is available. Includes 6 ft (1.8 m) cord which plugs directly into the E-Pure

APPLICATIONS INCLUDE:

Molecular Biology and Microbiology

- Cell culture
- Buffer preparation
- Electrophoresis

Quick Look Comparison

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

simple to use

easy to maintain

Feed Water Requirements*	
Source	Depending on the cartridge pack 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	29 x 28 x 7.5 in (73.7 x 71.1 x 19.1 mm)	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

System Options	Electrical requirements	Max Flow Rates	3-Holder	4-Holder
E-Pure systems* Ships with wall bracket and cartridge o-rings	120V	2 L/min	D4631	D4641
	240V	2 L/min	D4632-33	D4642-33

Required Accessories				
Cartridge kits Choose the cartridge pack according to your feed water and need for organic free water	Tap feed			D5028 D0835 Pretreatment (1) D0803 High Capacity (1) D5027 Ultrapure (2)
	Tap feed, Organic free			D5023 D0836 Macropure (1) D0803 High Capacity (1) D5027 Ultrapure (1) D5021 Organic Free (1)
	Pretreated feed	D5029 D0835 Pretreatment (1) D5027 Ultrapure (2)		D50227 D0835 Pretreatment (1) D0809 Ultrapure (1) D5027 Ultrapure (2)
	Pretreated feed, Organic free	D5022 D0836 Macropure (1) D5027 Ultrapure (1) D5021 Organic Free (1)		D50228 D0836 Macropure (1) D0809 Ultrapure (1) D5027 Ultrapure (1) D5021 Organic Free (1)
0.2 µm final filter			D3750	D3750
Optional Accessories				
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	D8952
Low pressure pump protector Alerts the E-Pure of an inadequate feed water condition in a pressurized feed line			D2706	D2706
Low water level pump protector Alerts the E-Pure of an inadequate feed water condition when fed from a reservoir	120V		D0603	D0603
	240V		D0606	D0606
Replacement Consumables				
Cleaning cartridges Set of three.			D50223	D50223

