

Thermo Scientific Barnstead B-Pure Water Purification System

Economical, lab-grade water system easily customized for all pretreatment or deionization needs



- Engineered for feed water pressures up to 100 psi
- Choose from single, double or half-size holders depending on your application
- Modular design provides ability to add additional holders as needed
- Produces up to 4L/min., depending on model
- Quarter-turn quick-release canisters make cartridge changes easy
- Accepts Thermo Scientific Barnstead Pura-Lite indicator or digital purity meter to monitor water quality
- Barnstead B-Pure holders are available in full or half-size cartridge configurations supporting space constraints

B-Pure™ Single Cartridge Holder

- Simple system without draw-off valve; optional Barnstead Pura-Lite purity indicator available

B-Pure Double Cartridge Holder

- Complete with draw-off valve
- Choose from models with digital purity meter or Barnstead Pura-Lite “Go/No Go” resistivity indicator

B-Pure Half-size Cartridge Holder

- Easily attaches to full-size B-Pure systems
- Small size allows flexibility in mounting location

Applications: Pretreatment, deionization

Required Accessories: Cartridges (sold separately).

System Warranty^Y: 1 year parts, 90 days labor

Cartridge Warranty^Y: 1 year parts

Certifications: CE, CSA

Notes: Free Thermo Scientific Barnstead H₂O Select Kits are available to help select the correct B-Pure system. For details, contact your Sales Representative.

Cat. No.	Model	L x W x H	Inlet Connection NPTF	Maximum Flowrate	Feedwater Temperature	Max. Feed Water Pressure	Electrical	Requires
D4505	Half-size Holder	17.8 × 17.8 × 38.1cm (7 × 7 × 15in.)	1.3cm (0.5in.) NPTF	2L/min.	4° to 49°C (40° to 120°F)	100psig	N/A	Half-Size B-Pure Cartridge
D4511	Single Holder	17.8 × 17.8 × 61cm (7 × 7 × 24in.)	1.3cm (0.5in.) NPTF	4L/min.	4° to 49°C (40° to 120°F)	100psig	N/A	Full-Size B-Pure Cartridge
D4521	Double Holder with Digital Purity Meter	17.8 × 38.1 × 68.6cm (7 × 15 × 27in.)	1.3cm (0.5in.) NPTF	4L/min.	4° to 49°C (40° to 120°F)	100psig	120V	2 Full-Size B-Pure Cartridges
D4522-33	Double Holder with Digital Purity Meter	17.8 × 38.1 × 68.6cm (7 × 15 × 27in.)	1.3cm (0.5in.) NPTF	4L/min.	4° to 49°C (40° to 120°F)	100psig	240V	2 Full-Size B-Pure Cartridges
D4524	Double Holder with Pura-Lite Indicator (50 kΩ)	17.8 × 38.1 × 68.6cm (7 × 15 × 27in.)	1.3cm (0.5in.) NPTF	4L/min.	4° to 49°C (40° to 120°F)	100psig	120V	2 Full-Size B-Pure Cartridges
D5831	Double Holder with Pura-Lite Indicator (200 kΩ)	17.8 × 38.1 × 68.6cm (7 × 15 × 27in.)	1.3cm (0.5in.) NPTF	4L/min.	4° to 49°C (40° to 120°F)	100psig	120V	2 Full Size B-Pure Cartridges
D5833	Double Holder with Pura-Lite Indicator (1M Ω)	17.8 × 38.1 × 68.6cm (7 × 15 × 27in.)	1.3cm (0.5in.) NPTF	4L/min.	4° to 49°C (40° to 120°F)	100psig	120V	2 Full Size B-Pure Cartridges

Required Accessories

Cat. No.	Cartridge Size	Type	Characteristics	Resin	Capacity
D0760	Full Size	Anion Removal	Effective removal of weakly ionized impurities, raises the pH of solutions, recovers precious metal complex	Strong Anion Exchange	1680 grains
D0815	Full Size	Cation Removal	Converts ionized salts to the acid form resulting in a product water that is low in pH, ideal for precious metal or isotope recovery	Strong Cation Exchange	3170 grains
D0803	Full Size	High Capacity	Removes ionized impurities, produces a larger quantity of water than that of the Ultrapure (D0809), however at a lower resistivity	Two-bed Ion Exchange	1760 grains
D0835	Full Size	Pretreatment	Effectively removes colloids, bacteria, chlorine and organics	Macroreticular, Activated Carbon	5000 gal.
D0836	Full Size	Macropure	Effectively removes colloids, bacteria, chlorine and organics, increases filter life	Macroreticular, Activated Carbon	2000 gal.
D0813	Full Size	Organic Removal	Removes organics and chlorine	Activated Carbon	5000 gal.
D0811	Full Size	Oxygen Removal	Maintains low oxygen content to prevent corrosion in cooling water. The feedwater should contain less than 10ppm of ionized solids	Porous Strong Ion Exchange	30g
D0809	Full Size	Ultrapure	Removes ionized impurities to produce high resistivity water with a neutral pH	Mixed Bed	875 grains
D0832	Full Size	Ultrapure and Organic Removal	Commonly used as still pretreatment. Removes ionized impurities and has a layer of activated carbon to remove chlorine and organics	Mixed Bed, Activated Carbon	785 grains / 1000 gal.
D8809	Full Size	Ultrapure and Oxygen Removal	Removes ionized impurities and oxygen to produce high purity water	Ultrapure, Oxygen Removal	455 grains/ 30g
D8811	Full Size	Ultrapure, Oxygen and Organic Removal	Removes ionized impurities, oxygen and organics to produce high purity water	Ultrapure, Oxygen and Organic Removal	365 grains/ 2000 gal./12g
D50215	Half Size	Organic Removal	Removes organics and chlorine	Activated Carbon	5000 gal.
D50214	Half Size	Oxygen Removal	Maintains low oxygen content to prevent corrosion in cooling water. The feed water should contain less than 10ppm of ionized solids	Porous Strong Anion Exchange	18g
D50213	Half Size	Ultrapure	Removes ionized impurities to produce high resistivity water with a neutral pH	Mixed Bed	550 grains
D50217	Half Size	Ultrapure and Organic removal	Commonly used as still pretreatment. Removes ionized impurities and has a layer of activated carbon to remove chlorine and organics	Mixed Bed, Activated Carbon	275 grains/ 2000 gal.
D50216	Half Size	Oxygen and demineralization	Removes oxygen and ions. Commonly used in cooling loops	Oxygen Removal Mixed	275 grains/ 9 gal.