

Deionization

NANO PURE INFINITY® TEST RESULTS

Barnstead

INORGANIC DETERMINANT

ANALYSIS

The inorganic purity of water is based on the ability of the NANOpure Infinity to remove charged particles present in various forms of supply water to the NANOpure Infinity. The listed results indicate the capability of the NANOpure Infinity to remove ionic impurities down to the lowest available detection limits from some of today's most sensitive instrumentation. Barnstead sought out independent laboratories to conduct a battery of tests utilizing the product water from the NANOpure Infinity. An abbreviated set of results is listed. A complete set of results can be obtained by contacting Barnstead|Thermolyne.

INORGANIC DETERMINANT ANALYSIS ¹		
Element	Symbol	Results (ppb)
Aluminum**	Al	< 0.05
Arsenic**	As	< 0.2
Barium**	Ba	< 0.01
Cadmium*	Cd	< 0.002
Calcium*	Ca	< 0.05
Chromium*	Cr	< 0.01
Cobalt**	Co	< 0.04
Copper*	Cu	< 0.02
Iron*	Fe	< 0.02
Lead*	Pb	< 0.05
Magnesium*	Mg	< 0.004
Manganese*	Mn	< 0.01
Mercury**	Hg	< 0.05
Nickel*	Ni	< 0.05
Silver*	Ag	< 0.005
Sodium*	Na	< 0.05
Titanium**	Ti	< 0.2
Zinc*	Zn	< 0.001

* GFAA - Perkin Elmer Model 1100B
 ** ICP/MS - Spectroflame EOP Ultrasonic

LIFE SCIENCE APPLICATIONS

Life Science applications require the ultimate in biologically pure water. Bacteria, pyrogens, nucleases and DNA, if present, can effect your results. Barnstead evaluated the NANOpure Infinity UF and UV/UF, providing you reproducible results on the ability of the units to remove these impurities.

Pyrogens < 0.001 Eu/ml*
 > 5 log reduction
 Bacteria - 0 CFU/ml**

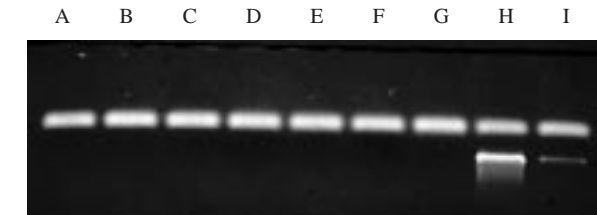
* Bio. Whitaker Kinetic QCL-LAL
 ** A.S.T.M. Method F1094

"The results over a four week period show that the NANOpure Infinity system was able to remove all detectable DNA, DNase and RNase A/T contamination even after source water had been spiked with high levels of each contaminant. We would recommend the system as a reliable source of water free of DNA, DNase and RNase."

—Mo Bio Laboratories

DNA CHALLENGE

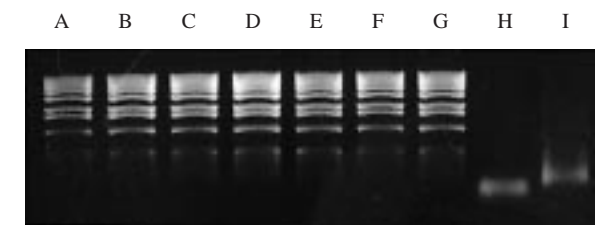
Challenge Concentration - 100 mls of distilled water with 30 microliters of Human genomic DNA (0.234 microgram/microliter). Concentration in the 100 ml spike was 70 ng/ml.



Lane A - After 500 ml flush
 Lane B - After 1000 ml flush
 Lane C - After 1500 ml flush
 Lane D - After 2000 ml flush
 Lane E - After 2500 ml flush
 Lane F - After 3000 ml flush
 Lane G - Negative control sterile D.E.P.C. treated water
 Lane H - Positive spike control
 Lane I - Sensitivity control

DNase CHALLENGE

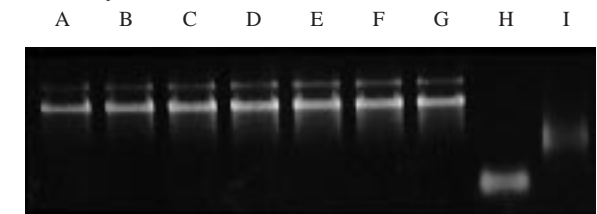
Challenge Concentration - 100 mls of distilled water with 428 microliters of 200 U/microliter DNase I. Concentration in the 100 ml spike was 856 U/ml.



Lane A - After 500 ml flush
 Lane B - After 1000 ml flush
 Lane C - After 1500 ml flush
 Lane D - After 2000 ml flush
 Lane E - After 2500 ml flush
 Lane F - After 3000 ml flush
 Lane G - Negative control sterile D.E.P.C. treated water
 Lane H - Positive spike control
 Lane I - Sensitivity control

RNase CHALLENGE

Challenge Concentration - 100 mls of distilled water with 4 microliters of RNase A/T1 cocktail (1.15 U/ml, 50 U/ml respectively). Concentration in the 100 ml spike was 0.046 U/ml A and 2 U/ml T1.



Lane A - After 500 ml flush
 Lane B - After 1000 ml flush
 Lane C - After 1500 ml flush
 Lane D - After 2000 ml flush
 Lane E - After 2500 ml flush
 Lane F - After 3000 ml flush
 Lane H - Positive spike control
 Lane I - Sensitivity control

Deionization

EASYPURE® RF (RESERVOIR FEED)

Barnstead

EASYPure RF



Filtered reservoir cap prevents the introduction of airborne contaminants.



SUPERIOR ANALYTICAL WATER AND PORTABLE!

- — Easily moved from lab to lab or bench to bench
- — Long on quality, short on price
- — Perfect replacement for bottled water

ORDERING INFORMATION



Cartridge Cavity



Model #	Electrical (50/60 Hz)	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)	Maximum Inlet Pressure (psig)	Inlet Temp °F (°C)	Maximum Flow Rates (L/min)	US List Price
		W	H	D					
D7031	120 VAC	12.25 (31.1)	18.13 (46.0)	18.50 (47.0)	35 (15.8)	100	40–120 (4–49)	0.5	\$2595.00
D7033-33	240 VAC	12.25 (31.1)	18.13 (46.0)	18.50 (47.0)	35 (15.8)	100	40–120 (4–49)	0.5	\$2595.00

-33 Models CE Marked

ACCESSORIES

Model #	Description	US List Price
D50230	Pretreatment Deionized Feed	\$65.00
D50229	High Purity/Low TOC	\$81.00
D50231	Pretreatment Distilled or Reverse Osmosis Feed	\$62.00
D50233	Ultrapure	\$65.00
D7384	Wall Bracket	\$234.00
D50245	Sanitization Cartridge	\$30.00
D7034	Set of 2 Empty EASYPure Cartridges, Required for Sanitization	\$66.00
FL703X2	Filter 0.2 Micron with Filling Bell	\$49.00

Patents issued: Des. 347, 25B: 5, 397, 468; 5, 399, 263

PRODUCT DESCRIPTION

- Portable reservoir feed system requires no piping or special installation. Ideal for work areas where direct plumbing is not available.
- Allows ultrapure water to be placed within easy access of analytical instruments.
- Provides less than 5 ppb total organic carbon (TOC) and up to 18.3 megohm-cm resistivity.
- Ideal for analytical procedures requiring water to be free of organics, inorganics and bacteria.
- Capable of delivering 0.5 liters of ultrapure water per minute.
- The EASYPure RF provides optimum low cost water for laboratories needing less than 15 liters of water daily.
- It features an integral non-contaminating feedwater reservoir that stores 6.5 liters of water. Simply pour pretreated feedwater into the easily accessible reservoir.
- Feedwater must be pretreated by reverse osmosis, distillation, or deionization.
- Product water exceeds all ASTM, NCCLS and CAP Type 1 water standards.

- Independent laboratory testing confirms product water to be Type 1, organic-free and ultra-pure.
- Microprocessor-controlled purity monitor provides digital resistivity readings, temperature compensated to 25°C.
- A "stand-by" mode recirculates the purified water for 10 minutes every hour of inactivity. Water remains clean and free from recontamination and ready to use when you need it.
- All component materials are constructed of extremely inert materials to ensure maximum ionic and organic purity.
- The system's compact design allows it to be used anywhere on a bench with no installation or permanent plumbing connections required. An optional bracket is available for easy wall mounting.
- Excellent for your most critical analytical applications including: High performance liquid chromatography (HPLC), Atomic absorption (AA), Total organic carbon (TOC), Gas chromatography/mass spectrometry (GC/MS), ICP and ICP/MS and Ion chromatography (IC).

**48 Hour or Sooner
Express Shipping
Guaranteed!***

*see inside front cover for details

Barnstead|Thermolyne

339

800-553-0039 or 319-556-2241

Deionization

EASYPURE® LF (LINE FEED)

Barnstead

EASYPure LF



0.2 micron filter
removes particles and
bacteria at the product
water outlet.



SMALL IN SIZE...HIGH QUALITY!

- — Up to 18.3 megohm-cm resistivity
- — Great for lower volume requirements
- — Ideal for most analytical applications

Cartridge Cavity



ORDERING INFORMATION

Model #	Electrical (50/60 Hz)	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)	Max Inlet Pressure (psig)	Inlet Temp °F (°C)	Maximum Flow Rates (L/min)	US List Price
		W	H	D					
D7381	120 VAC	12.25 (31.1)	18.2 (46.0)	18.75 (47.6)	35 (15.8)	100	40-120 (4-49)	1.3*	\$2837.00
D7382-33	240 VAC	12.25 (31.1)	18.13 (46.0)	18.75 (47.6)	35 (15.8)	100	40-120 (4-49)	1.3*	\$3070.00

* Maximum flow rates dependent upon minimum inlet pressure of 30 psig and 60 Hz electricity.

-33 models CE Marked.

ACCESSORIES

Model #	Description	US List Price
D50230	Pretreatment Deionized Feed	\$65.00
D50229	High Purity/Low TOC	\$81.00
D50231	Pretreatment Distilled or Reverse Osmosis Feed	\$62.00
D50233	Ultrapure	\$65.00
D7384	Wall Bracket	\$234.00
D50245	Sanitization Cartridge	\$30.00
D7034	Set of 2 Empty EASYPure Cartridges, Required for Sanitization	\$66.00
FL703X2	Filter 0.2 Micron with Filling Bell	\$49.00

Patents issued: Des. 347, 25B: 5, 397, 46B: 5, 399, 263

PRODUCT DESCRIPTION

- Flow rates of up to 1.3 liters per minute can be achieved, depending on feedwater pressure. System can be fed directly from a pressurized feed line or a storage tank using gravity flow.
- Feedwater must be pretreated by reverse osmosis, distillation, or deionization.
- Ideal for laboratories requiring a low cost ultrapure water system.
- Microprocessor-controlled purity monitor provides digital resistivity readings, temperature compensated to 25°C.
- Water exceeds all ASTM, NCCLS and CAP Type 1 water standards.
- Produces Type 1, ultrapure water for your critical analytical applications including: Atomic absorption (AA), ICP, Gas chromatography /Mass Spectrometry (GC/MS), ICP/MS, Ion chromatography (IC).
- Provides less than 10 ppb total organic carbon (TOC) and up to 18.3 megohm-cm resistivity.
- The system's compact design allows it to be bench mounted or used anywhere on a wall. An optional bracket is available for easy wall mounting.

48 Hour or Sooner
Express Shipping
Guaranteed!*



*see inside front cover for details

- A "stand-by" mode recirculates the purified water for 10 minutes every hour of inactivity. Water remains clean and free from recontamination.
- Several cartridge types are available to adapt to your specific feedwater source and application requirements.
- Incorporates an absolute 0.2 micron hollow fiber final filter providing water free of particles and bacteria.
- All component materials are constructed of extremely inert materials to ensure maximum ionic and organic purity.

Deionization

EASYPURE[®] UF (ULTRAFILTRATION)

Barnstead

EASYPure UF



0.2 micron filter removes particles and bacteria at the product water outlet.



LOWER COST, PYROGEN FREE WATER!

- — Pyrogen free water for your Life Science applications
- — Not only is the water pyrogen free, it is also Type 1

Wall bracket with rotation base permits easy cartridge replacement.



Cartridge Cavity



ORDERING INFORMATION

Model #	Electrical (50/60 Hz)	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)	Max Inlet Pressure (psig)	Inlet Temp °F (°C)	Max Flow Rates (Liters/Min.)	US List Price
		W	H	D					
D7411	120 VAC	12.25 (31.1)	18.13 (46.0)	18.75 (47.6)	35 (15.8)	100	40–120 (4–49)	1.2*	\$3795.00
D7412-33	240 VAC	12.25 (31.1)	18.13 (46.0)	18.75 (47.6)	35 (15.8)	100	40–120 (4–49)	1.2*	\$3801.00

* Maximum flow rates dependent upon minimum inlet pressure of 30 psig and 60 Hz electricity.

-33 Models CE Marked.

PRODUCT DESCRIPTION

- The 10,000 molecular weight ultrafilter provides less than 0.005 EU/ml pyrogen levels and up to 7 log reduction.
- Provides low cost biologically pure water with less than 10 ppb total organic carbon (TOC) and up to 18.3 megohm-cm resistivity.
- An automatic intermittent flush cleans the ultrafilter without wasting valuable high purity water.
- Capable of delivering up to 1.2 liters of pure, pyrogen-free* water per minute.
- Microprocessor-controlled purity monitor provides digital resistivity readings, temperature compensated to 25°C.
- A "stand-by" mode recirculates the purified water for 10 minutes every hour of inactivity. Water remains clean and free from recontamination.
- Water exceeds all ASTM, NCCLS, and CAP Type 1 and ASTM Type A water purity standards.
- Feedwater must be pretreated using reverse osmosis, distillation or deionization.

ACCESSORIES

Model #	Description	US List Price
D50230	Pretreatment Deionized Feed	\$65.00
D50229	High Purity/Low TOC	\$81.00
D50231	Pretreatment Distilled or Reverse Osmosis Feed	\$62.00
D50233	Ultrapure	\$65.00
D7384	Wall Bracket	\$234.00
D50245	Sanitization Cartridge	\$30.00
D7034	Set of 2 Empty EASYPure Cartridges, Required for Sanitization	\$66.00
FL703X2	Filter 0.2 Micron with Filling Bell	\$49.00

Patents issued: Des. 347, 25B; 5, 397, 468; 5, 399, 263

- Water is filtered at the point of use with an absolute 0.2 micron hollow fiber filter.
- The system's compact design allows it to be bench mounted or used anywhere on a wall. An optional bracket is available for easy wall mounting.
- All component materials are constructed of extremely inert materials to ensure maximum ionic and organic purity.

* Pyrogen=Gram negative bacterial lipopolysaccharides (LPS)

48 Hour or Sooner Express Shipping Guaranteed!*

*see inside front cover for details

Barnstead|Thermolyne

341

800-553-0039 or 319-556-2241

Deionization

EASYPURE® UV (ULTRAVIOLET)

Barnstead

EASYPure UV



Wall bracket with rotation base permits easy cartridge replacement.



SMALLER AMOUNTS OF ULTRAPURE WATER!

- — Perfect for your organic determinant applications
- — Dual wavelength UV lamp eliminates organics



Cartridge Cavity



ORDERING INFORMATION

Model #	Electrical (50/60 Hz)	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)	Max Inlet Pressure (psig)	Inlet Temp °F (°C)	Max Flow Rates (L/Min)	US List Price
		W	H	D					
D7401	120 VAC	12.25 (31.1)	18.5 (47.0)	18.25 (46.4)	30 (13.6)	100	40-120 (4-49)	1.3*	\$3473.00
D7402-33	240 VAC	12.25 (31.1)	18.5 (47.0)	18.25 (46.4)	30 (13.6)	100	40-120 (4-49)	1.3*	\$3613.00

* Maximum flow rates dependent upon minimum inlet pressure of 30 psig and 60 Hz electricity.

-33 models CE marked.

ACCESSORIES

Model #	Description	US List Price
D50230	Pretreatment Deionized Feed	\$65.00
D50229	High Purity/Low TOC	\$81.00
D50231	Pretreatment Distilled or Reverse Osmosis Feed	\$62.00
D50233	Ultrapure	\$65.00
D7384	Wall Bracket	\$234.00
D50245	Sanitization Cartridge	\$30.00
D7034	Set of 2 Empty EASYPure Cartridges, Required for Sanitization	\$66.00
FL703X2	Filter 0.2 Micron with Filling Bell	\$49.00

Patents issued: Des. 347, 25B; 5, 397, 468; 5, 399, 263

PRODUCT DESCRIPTION

- Provides superior low cost water to meet the stringent requirements demanded by your most critical organic determinant analyses.
- Provides less than 2 parts per billion (ppb) total organic carbon (TOC) and up to 18.3 megohm-cm resistivity. (Independent laboratory testing produced water with in-line TOC levels below 1 ppb.)
- Ideal for applications including; High performance liquid chromatography (HPLC), Ion chromatography (IC), Gas chromatography/mass spectrometry (GC/MS) analysis.
- The dual wavelength ultraviolet light (185 and 254 nm) oxidizes organics and controls bacterial growth. Exceeds all ASTM, NCCLS and CAP Type 1 water purity standards.
- Capable of delivering up to 1.3 liters of pure water per minute dependent on incoming water pressure.
- The system's compact design allows it to be bench mounted or used anywhere on a wall. An optional bracket is available for easy wall mounting.

- A "stand-by" mode recirculates the purified water for 10 minutes every hour of inactivity. Water remains clean and free from recontamination.
- The system filters water at the point of use with an absolute 0.2 micron hollow fiber filter to remove particles and bacteria at the product water outlet.
- All component materials are constructed of extremely inert materials to ensure maximum ionic and organic purity.
- Feedwater must be pretreated by using reverse osmosis, distillation, or deionization.
- Microprocessor-controlled purity monitor provides digital resistivity readings, temperature compensated to 25°C.

48 Hour or Sooner Express Shipping Guaranteed!*



*see inside front cover for details

Deionization

EASYPURE® UV/UF

Barnstead

EASYPure UV/UF



Cartridge cavity



OUR BEST SYSTEM, AND SMALLER!

- — RNase free water
- — The most complete system on the market
- — Water for every application

ORDERING INFORMATION



Model #	Electrical (50/60 Hz)	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)	Max Inlet Pressure (psig)	Inlet Temp °F (°C)	Max Flow Rates (L/min)	US List Price
		W	H	D					
D8611	120 VAC	12.3 (31.1)	18.13 (46.0)	18.75 (47.6)	35 (15.8)	100	40–120 (4–49)	1.3*	\$4495.00
D8612-33	240 VAC	12.3 (31.1)	18.13 (46.0)	18.75 (47.6)	35 (15.8)	100	40–120 (4–49)	1.3*	\$4540.00

* Maximum flow rates dependent upon minimum inlet pressure of 30 psig and 60 Hz electricity.

-33 Models CE Marked.

PRODUCT DESCRIPTION

- Product water will not degrade RNA when challenged with various concentrations of RNase A and RNase T1.
- Validated by an independent lab as being RNase and DNase free.
- Capable of delivering a flow rate of up to 1.3 liters per minute.
- Produce low cost pyrogen-free water for tissue and cell cultures and monoclonal antibody production (Pyrogen levels measure less than 0.005 EU/ml, up to 7 log reduction).
- Ultrapure product water has bacteria levels measuring less than 1 CFU/100 ml.
- Water exceeds all ASTM, ASTM Type A, NCCLS, and CAP Type 1 water standards.
- Microprocessor-controlled purity monitor provides digital resistivity readings, temperature compensated to 25°C.
- Produces ion-free water for applications including; Atomic absorption (AA), Ion chromatography (IC), ICP and ICP/MS.
- Processes organic-free water for applications including: High performance liquid chromatography (HPLC), Gas chromatography/mass spectrometry (GC/MS), Total organic carbon analysis (TOC), HPLC chromatograms show flat baselines at 254 nm and the more sensitive 210 nm wavelength.

ACCESSORIES

Model #	Description	US List Price
D50230	Pretreatment Deionized Feed	\$65.00
D50229	High Purity/Low TOC	\$81.00
D50231	Pretreatment Distilled or Reverse Osmosis Feed	\$62.00
D50233	Ultrapure	\$65.00
D7384	Wall Bracket	\$234.00
D50245	Sanitization Cartridge	\$30.00
D7034	Set of 2 Empty EASYPure Cartridges, Required for Sanitization	\$66.00
FL703X2	Filter 0.2 Micron with Filling Bell	\$49.00

Patents issued: Des. 347, 25B; 5, 397, 468; 5, 399, 263

- Provides water with less than 3 parts per billion (ppb) total organic carbon (TOC) and up to 18.3 megohm-cm resistivity.
- A "stand-by" mode recirculates the purified water for 10 minutes every hour of inactivity. Water remains clean and free from recontamination.
- Feedwater must be pretreated by reverse osmosis, distillation, or deionization.
- The system's compact design allows it to be bench mounted or used anywhere on a wall. An optional bracket is available for easy wall mounting.
- All component materials are constructed of extremely inert materials to ensure maximum ionic and organic purity.

48 Hour or Sooner
Express Shipping
Guaranteed!*



*see inside front cover for details

Deionization

EASYPURE® TEST RESULTS

Barnstead

ORGANICS (INDEPENDENT TEST RESULTS FOR EASYPURE RF & UF)

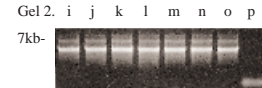
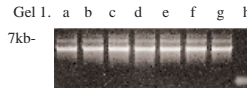
Volatiles Compounds	Result	Units
Acetone	< 20.0	µg/L
Acrolein	< 50.0	µg/L
Acrylonitrile	< 50.0	µg/L
Benzene	< 1.0	µg/L
Bromodichloromethane	< 1.0	µg/L
Bromoform	< 1.0	µg/L
Bromomethane	< 10.0	µg/L
Carbon tetrachloride	< 1.0	µg/L
Chlorobenzene	< 1.0	µg/L
Chloroethane	< 10.0	µg/L
Chloroform	< 1.0	µg/L
Chloromethane	< 10.0	µg/L
Dibromochloromethane	< 1.0	µg/L
1,1-Dichloroethane	< 1.0	µg/L
1,2-Dichloroethane	< 1.0	µg/L
1,1-Dichloroethene	< 1.0	µg/L
trans-1,2-Dichloroethene	< 1.0	µg/L
cis-1,2-Dichloroethene	< 1.0	µg/L
1,2-Dichloropropane	< 1.0	µg/L
cis-1,3-Dichloropropene	< 1.0	µg/L
trans-1,3-Dichloropropene	< 1.0	µg/L
Ethylbenzene	< 1.0	µg/L
2-Hexanone	< 10.0	µg/L
Methylethyl ketone (MEK)	< 10.0	µg/L
Methylisobutyl ketone (MIBK)	< 10.0	µg/L
Methylene chloride	< 10.0	µg/L
1,1,2,2-Tetrachloroethane	< 1.0	µg/L
Tetrachloroethene	< 1.0	µg/L
Toluene	< 1.0	µg/L
1,1,1-Trichloroethane	< 1.0	µg/L
1,1,2-Trichloroethane	< 1.0	µg/L
Trichloroethene	< 1.0	µg/L
Trichlorofluoromethane	< 1.0	µg/L
Vinyl chloride	< 10.0	µg/L
Xylenes, Total	< 1.0	µg/L*

* Volatile organic compounds determined by Hewlett Packard HP-5970A Mass Spec GC.

METALS (INDEPENDENT TEST RESULTS FOR ALL UNITS)

Chemical Symbol	Element Name	EASYPure results (PPB or micrograms/liter)
Ag	Silver	< 0.005
Cd	Cadmium	< 0.003
Ca	Calcium	< 0.05
Cr	Chromium	< 0.01
Cu	Copper	< 0.02
Pb	Lead	< 0.05
Ni	Nickel	< 0.1
Zn	Zinc	< 0.001
Mg	Magnesium	< 0.004
Mn	Manganese	< 0.01
Na	Sodium	< 0.02

* Metals determined by Perkin Elmer 1100B Graphic Furnace AA.

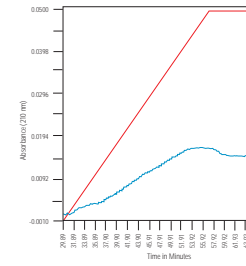
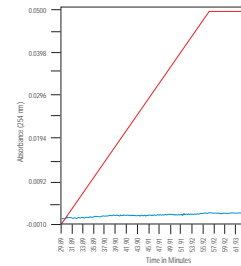


RNase Challenge Challenge 10 µg/ml RNase A and 200 KU/ml T1

Lane A after 1000 ml flush
Lane B after 1500 ml flush
Lane C after 1600 ml flush
Lane D after 1700 ml flush
Lane E after 1800 ml flush
Lane F after 1900 ml flush
Lane G negative control
Lane H positive control

Lane I after 2000 ml flush
Lane J after 2100 ml flush
Lane K after 2200 ml flush
Lane L after 3 liter flush
Lane M after 5 liter flush
Lane N after 10 liter flush
Lane O negative control
Lane P positive control

Independent test data consistently confirm EASYPure's ability to provide flat baselines in HPLC. The chromatogram below indicates readings of test run at 254 nm, and how impressive EASYPure baselines remain when tested at the much more sensitive level of 210 nm.



NOTE: EASYPure RF LF, UV & UV/UF distilled feed 0.2 micron filter determined with a Beckman® HPLC system; 168 detector at 210 nm and 254 nm, 4.6 x 250 nm C-18 column Direct-Connect™ Guard column .05 AUFS; linear gradient mobile phase from 100% water to 100% acetonitrile at 2 ml/minute in 30 minutes, 60 ml sample enrichment at 2 ml/minute.

14:13	1.95	1.9%	STABLE	29.6	P2
14:07	1.90	1.9%	STABLE	29.8	P2
14:00	1.88	1.8%	STABLE	30.0	P2
13:54	1.88	1.8%	STABLE	30.3	P2
13:48	1.83	1.8%	STABLE	30.5	P2
13:41	1.90	1.9%	STABLE	30.7	P2
13:35	1.84	1.8%	STABLE	30.8	P2
13:29	1.88	1.8%	STABLE	31.0	P2
13:23	1.82	1.8%	STABLE	31.3	P2
13:16	1.82	1.8%	STABLE	31.6	P2
13:09	1.81	1.8%	STABLE	31.9	P2
13:02	1.90	1.9%	STABLE	32.0	P2
12:55	1.88	1.8%	.2	32.5	P2
12:48	1.85	1.8%	.2	32.6	P2
12:41	1.94	1.9%		32.7	P2
12:34	1.80	1.8%		33.2	P2
12:28	1.91	1.9%		33.9	P2
12:22	1.78	1.7%		34.2	P2
12:16	1.68	1.6%		35.3	P2

TIME	[PPB]	[PPB/hr]	TOC	%AL	TREND	TEMP	TYP
100	1.0	0.0	60.0	1.00			
[PPB]	[Min]	[Min]	[Min]	[Min]			
LIMIT	PURGE	CYCLE	TREND	CAL	FACTOR		
03/22/95							

S/N 1823							
A-100P SE Portable Analyzer							
ANATEL CORPORATION							

NOTE: In-line TOC measurements show low and stable the results are over time.

EASYPure UV

12:24	2.66	2.6%	STABLE	27.2	P2
12:16	2.75	2.7%	STABLE	27.1	P2
12:08	2.69	2.6%	STABLE	27.2	P2
12:00	2.70	2.7%	STABLE	27.1	P2
11:52	2.88	2.8%	STABLE	27.1	P2
11:45	2.66	2.6%	STABLE	27.1	P2
11:38	2.71	2.7%	STABLE	27.1	P2
11:31	2.68	2.6%	STABLE	27.2	P2
11:24	2.61	2.6%	STABLE	27.2	P2
11:16	2.84	2.8%	STABLE	27.2	P2
11:09	2.74	2.7%	STABLE	27.1	P2
11:01	2.65	2.6%	STABLE	27.2	P2
10:54	2.78	2.7%	STABLE	27.2	P2
10:46	2.59	2.5%	-3	27.2	P2
10:38	2.71	2.7%	STABLE	27.2	P2
10:30	2.79	2.7%	STABLE	27.1	P2
10:23	2.68	2.6%	-4	27.2	P2
10:15	2.77	2.7%	-3	27.2	P2

TIME	[PPB]	[PPB/hr]	TOC	%AL	TREND	TEMP	TYP
100	1.0	0.0	60.0	1.00			
[PPB]	[Min]	[Min]	[Min]	[Min]			
LIMIT	PURGE	CYCLE	TREND	CAL	FACTOR		
09/21/94							

S/N 1823							
A-100P SE Portable Analyzer							
ANATEL CORPORATION							

NOTE: In-line TOC measurements show low and stable the results are overtime.

EASYPure UV/UF

Deionization

E - P U R E

Barnstead

EASYPure 4-holder



LOW ON COST...HIGH ON QUALITY!

- — 1/4 turn quick release canisters
- — High flow rates
- — Lowest operating cost of any system on the market



PRODUCT DESCRIPTION

- Resistivities up to 18.3 megohm-cm and TOC levels below 5 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 mounted; completely assembled for easy installation.
- 1/4 turn quick release canisters allow for easy cartridge replacement.
- 0.2 micron absolute hollow fiber filter removes bacteria and particulates that could alter your results.
- Digital resistivity meter is automatically temperature compensated to 25°C, preventing fluctuating resistivity readings due to temperature changes.
- Flow rate up to 2 liters per/min.
- High capacity cartridge provides low operating cost.

ORDERING INFORMATION

Model #	Electrical (50/60 Hz)	W	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)	Max Inlet Pressure (psig)	Inlet Conn (Inches)	Max Flow Temp Range	US List Rates	Price
			H	D							
E-pure™ 3-Holder											
D4631	120 VAC	29 (73.7)	28 (71.1)	7.5 (19.1)	50 (22.7)	100	1/4 NPTF	40-120°F	2.0 LPM	\$2628.00	
D4632-33	240 VAC	29 (73.7)	28 (71.1)	7.5 (19.1)	50 (22.7)	100	1/4 NPTF	4-49°C	1.8 LPM	\$2628.00	
E-pure™ 4-Holder											
D4641	120 VAC	35 (88.9)	28 (71.1)	7.5 (19.1)	56 (25.4)	100	1/4 NPTF	40-120°F	2.0 LPM	\$2772.00	
D4642-33	240 VAC	35 (88.9)	28 (71.1)	7.5 (19.1)	56 (25.4)	100	1/4 NPTF	4-49°C	1.8 LPM	\$2772.00	

-33 Models CE Marked

ACCESSORIES

Cartridge Kits for E-pure™ Systems - Tap Feed (Final Filters sold separately)

Model #	Description	Contents	US List Price
D5029	3 Module Type I Cartridge Kit	1-D0835 Pretreatment Cartridge, 2-D5027 Ultrapure Cartridges	\$266.00
D5028	4 Module Type I Cartridge Kit	1-D0835 Pretreatment Cartridge, 1-D0803 High Capacity Cartridge, 2-D5027 Ultrapure Cartridges	\$335.00
D5022	3-Module Type I ORGANICfree Cartridge Kit	1-D0836 MACROpure Cartridge, 1-D5027 Ultrapure Cartridge, 1-D5021 ORGANICfree Cartridge	\$323.00
D5023	4 Module Type I ORGANICfree Cartridge Kit	1-D0836 MACROpure Cartridge, 1-D0803 High Capacity Cartridge, 1-D5027 Ultrapure Cartridge, 1-D5021 ORGANICfree Cartridge	\$385.00

Cartridge Kits for E-pure™ Systems - Pretreatment Feed (Final Filters sold separately)

D50227	4 Module Type I Cartridge Kit for Pretreated Feed	1-D0835 Pretreatment Cartridge, 2-D5027 and 1-D0809 Ultrapure Cartridge	\$325.00
D50228	4 Module Type I ORGANICfree Cartridge Kit for Pretreated Feed	1-D0836 MACROpure Cartridge, 1-D5027 Ultrapure Cartridges and 1-D0809 Ultrapure Cartridges, 1-D5021 ORGANICfree Cartridge	\$390.00
D3750	Final Filter		\$66.00

48 Hour or Sooner Express Shipping Guaranteed!*



*see inside front cover for details

Deionization

B - PURE CARTRIDGE SYSTEMS

Barnstead

Double Holder B-Pure



Single Holder B-Pure



DON'T NEED HIGHEST PURITY? B-PURE SYSTEMS ARE FOR YOU!

- — Design your own water system
- — Higher flows

1/2 Size B-Pure



PRODUCT DESCRIPTION

- The B-pure system provides you the flexibility of designing your own water system. The modular design allows you the ability to add additional holders when the need exists. If you need pure water of less quality than the NANOpure, E-pure, or EASYpure can produce, the B-pure is the right system for you.
- Produces up to 4 liters per minute, depending upon feedwater quality.
- Quarter-turn quick release canisters.
- Accepts most Barnstead cartridges and filters.
- Allows for the addition of holders as water needs change.
- Accepts Pura®-Lite purity indicator or digital purity meter.
- 1/2 size holders utilize smaller cartridges to conserve space.

Double Holder

- Complete with draw-off valve.
- Digital temperature compensated purity meter included.
- Can be ordered with Pura-Lite "Go/No Go" resistivity indicator (Contact Barnstead|Thermolyne for details.)

1/2 Size Cartridge Holder

- Up to 2 liters per minute of flow, depending upon feedwater quality.
- Accepts a variety of purification cartridges.
- Easily attaches to existing B-pure systems.
- Small size allows for flexibility in mounting location.

**48 Hour or Sooner
Express Shipping
Guaranteed!***



*see inside front cover for details

PRODUCT SPECIFICATIONS

Inlet Temp. Connection	Max. Inlet Range	Cell Thread Pressure	Max. Flow Size	Flow Rate
1/2" NPTF	40-120°F (4-49°C)	100 psig	1/2" NPTF	4 liters/min.

Cartridges sold separately. See Cartridge page for selection.

ORDERING INFORMATION

Model #	Description	Dimensions W x H x D Inches (cm)	Shipping Weight Lb. (kg)	Electrical	US List Price
D4511	Single Holder	7 24 7 (17.8) (61) (17.8)	8 (3.6)	120 VAC	\$263.00
D4521	Double Holder	15 27 7 (38.1) (68.6) (17.8)	15 (6.8)	120 VAC	\$1323.00
D4522-33	Double Holder	15 27 7 (38.1) (68.6) (17.8)	15 (6.8)	240 VAC	\$1323.00
D4505	1/2 Size Holder	7 15 6.6 (17.8) (38.1) (16.8)	6 (2.7)	120 VAC	\$263.00

-33 Models CE Marked

APPLICATION

- Point-of-use deionization for laboratories, electronics industry, and all users of pure water.

Deionization

REMOTE DISPENSER

Barnstead

Remote Dispenser



BRING YOUR WATER TO YOUR WORK, NOT YOUR WORK TO YOUR WATER!

- — Convenience and purity, the remote dispenser has it all
- — Add to your E-pure system or older style NANOpure System

ORDERING INFORMATION

Model #	Description	Max. Flow Rate	Max. Inlet Pressure	Operating Temperature Range	Filter Membrane Size	Filter Type	Shipping Weight Lb. (kg)	US List Price
D8952	Remote Dispenser	1.8 liters/min	50 psig	40-120°F	-	-	5 (2.3)	\$440.00
FL703X2	Replacement Filter	1.8 liters/min.	50 psig	40-120°F	0.2 micron	Hollow Fiber	1 (.5)	\$49.00

PRODUCT DESCRIPTION

- The Remote Dispenser provides the ultimate in a pure water delivery system.
- The unique design of the dispenser delivers purified water to a remote location without compromising the purity of the water.
- The design of the dispenser provides for recirculation of the water up to the tip of the dispenser providing virtually no dead volume. This allows you to maintain the purity level within the system.
- Assures optimum water purity.
- Hollow fiber filter material contains no extractables; virtually eliminates dead volume; absolute filtration down to 0.2 microns.
- Allows you to deliver pure water up to 8 feet (2.4 meters) away from the unit.
- Included in the recirculation path, providing un-paralleled purity.
- All wetted parts are virgin polypropylene or PVDF, eliminating the possibility of recontamination of your water.
- Included with the NANOpure Infinity system. Can be added to the E-pure.
- Delivers up to 1.8 liters of water per minute.
- Comes complete with a final filter.
- The advantages of hollow fiber filtration are numerous; the material is naturally hydrophilic thus it does not require the use of wetting agents. Wetting agents or surfactants are commonly used in other filtration material and require extensive rinse-up volumes to achieve high purity water. The filters used in the remote dispenser rinse to high resistivity and low T.O.C. values after only a few liters of water are rinsed through it. The nature of the fibers also allows you to gain greater flow rates with a smaller filter.

48 Hour or Sooner
Express Shipping
Guaranteed!*



*see inside front cover for details

Deionization

ACCESSORIES

Barnstead

PRODUCT DESCRIPTION

Depending on the deionization system, certain accessories are available. These can be easily added to either new or existing systems to provide the benefits described below.

Digital Monitor

- Provides a direct reading of the resistivity of the water exiting the system.
- Fits conveniently into B-pure, as well as any 1/2" (12.7 mm) NPTF opening.
- Provides a digital reading of actual water purity in megohm-cm, temperature compensated to 25°C.

Pura®-Lite

- Provides "Go/No Go" indication of water purity.
- Green light indicates acceptable water purity, red light indicates unacceptable purity.
- Easily fits into B-pure holder or any 1/2" (12.7 mm) NPTF connection.
- Various resistivity values to provide more flexibility in your individual water system.

Low Pressure Pump Protector

- If you are feeding a NANOpure, E-pure or EASYpure 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 feedwater pressure falls below 5 psig (0.35kg/cm²)
- Includes 6' (1.8 meters) cord which plugs directly into NANOpure, E-pure or EASYpure systems.
- Complete with 1/4" (6 mm) NPT "T" to install in your feedline.

Low Water Level Pump Protector

- If feeding from a storage reservoir, it is recommended that a low water pump protector be added to NANOpure, E-pure or EASYpure systems to 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" (12.7 mm) NPTF connection is available.
- Comes complete with 6' (1.8 meters) cord to attach directly to the NANOpure, E-pure or EASYpure systems.

ORDERING INFORMATION

Model #	Voltage	Cell Thread Size	Resistivity Range	US List Price
Digital Purity Monitor				
D2770	120 VAC	1/2" NPTM (12.7 mm)	0.1-18.3 megohm-cm	\$832.00
D2769	240 VAC	1/2" NPTM (12.7 mm)	0.1-18.3 megohm-cm	\$832.00

Pura-Lite

E3450	120 VAC	50,000 ohms-cm	1/2" NPTM (12.7 mm)	\$107.00
E3454	240 VAC	50,000 ohms-cm	1/2" NPTM (12.7 mm)	\$107.00
E3451	120 VAC	200,000 ohms-cm	1/2" NPTM (12.7 mm)	\$107.00
E3455	240 VAC	200,000 ohms-cm	1/2" NPTM (12.7 mm)	\$107.00
E3452	120 VAC	1,000,000 ohms-cm	1/2" NPTM (12.7 mm)	\$107.00
E3456	240 VAC	1,000,000 ohms-cm	1/2" NPTM (12.7 mm)	\$107.00

Model #	Description	US List Price
NANOpure, E-pure and EASYpure Low Pressure Pump Protector		
D2706	Pressure Switch	\$370.00

Low Water Pump Protector

D0603	NANOpure® pump protector, 120V	\$324.00
D0606	NANOpure® pump protector, 240V	\$324.00
D8964	NANOpure Infinity™ pump protector, all models	\$296.00
CN56215	NANOpure pump protector Required for use with A56290-857 30 Liter Glass Still Tank, 120V	\$191.00
CN56210	NANOpure pump protector required for use with A56290-857 30 Liter Glass Still Tank, 240V	\$191.00

Flow Meters

D0787	Flow Meter, 1 to 75 lph	\$135.00
D0788	Flow Meter, 0 to 190 lph	\$341.00

Flow Meters

- Flow meters allow precise measurement and control flow of water through a B-pure system. They are installed in the inlet water line. The float type meters are complete with an adjustable flow valve. Inlet and outlet connections are 1/2" (12.7 mm) NPTF. * A flow meter cannot be used when a Recirculating/Distribution Pump is part of a water system.

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Express Shipping
Guaranteed!*



*see inside front cover for details

Barnstead|Thermolyne

348

800-553-0039 or 319-556-2241

Deionization

INDIVIDUAL CARTRIDGES

Barnstead

PRODUCT SPECIFICATIONS FOR PRESSURIZED CARTRIDGES

Length Inches (cm)	Shipping Diameter Inches (cm)	Weight Lb. (kg)
17.2 (43.7)	3.4 (8.6)	5 (2.3)

PRODUCT SPECIFICATIONS FOR 1/2 SIZED CARTRIDGES

Length Inches (cm)	Shipping Diameter Inches (cm)	Weight Lb. (kg)
10.9 (27.7)	3.4 (8.6)	3 (1.4)

ORDERING INFORMATION

Model #	Description	Resin Type(s)	Where Used	US List Price
Pressurized Cartridges				
D0803	High capacity two-bed	Two bed, high capacity, Bantam, cooling loops	NANOpure, E-pure, B-pure,	\$76.00
D0809	Ultrapure	Mixed bed	NANOpure II, older style NANOpure B-pure, Bantam, cooling loops	\$80.00
D0811	Oxygen removal	Oxygen	B-pure, cooling loops	\$83.00
D0813	Organic removal	Activated carbon	B-pure, cooling loops, Bantam	\$66.00
D0815	Cation removal	Cation	B-pure, cooling loops, Bantam	\$60.00
D0820	Organic free	Organic free	NANOpure II, older NANOpure systems	\$98.00
D5021	Organic free	Organic free	Quad-style NANOpure, E-pure	\$104.00
D0832	Pretreatment cartridge	Mixed bed, activated carbon	B-pure, still pretreatment	\$74.00
D0835	Combination colloid, organic	Macroreticular, activated carbon	NANOpure, E-pure, B-pure	\$76.00
D0836	Macropure	Macroreticular, activated carbon	NANOpure, E-pure, pretreatment	\$111.00
D8809	Two bed combination	Ultrapure, oxygen removal	B-pure, cooling loops	\$84.00
D8811	Three bed combination	Ultrapure, oxygen removal, organic removal	B-pure, cooling loops	\$83.00
D0760	Anion removal	Anion	B-pure, cooling loops, Bantam	\$142.00
D5027	Ultrapure	Mixed bed	Quad-style NANOpure, E-pure, ROpure ST	\$80.00

* Cartridges feature all polypropylene construction and are designed to fit any NANOpure®, E-pure™, B-pure™, PCS, Bantam holder or cooling loop system.

1/2 Size Cartridges for 1/2 Size B-Pure

D50213	1/2 size Ultrapure	mixed bed	1/2 B-pure	\$67.00
D50214	1/2 size oxygen removal	oxygen removal	1/2 B-pure	\$77.00
D50215	1/2 size organic removal	activated carbon	1/2 B-pure	\$55.00
D50216	1/2 size comb. oxygen and demineralization	oxygen removal mixed bed	1/2 B-pure	\$74.00
D50217	1/2 size comb. carbon and demineralization	mixed bed activated carbon	1/2 B-pure	\$72.00

NANOpure Infinity Cartridges

D50250	Pretreatment Cartridge R/O & Dist Feed	Activated Carbon	Nanopure Infinity	\$58.00
D50251	Pretreatment Cartridge DI & Tap Feed	Activated Carbon & Macroreticular Resin	Nanopure Infinity	\$75.00
D50252	Organic Free Cartridges	Organic Free Media	Nanopure Infinity	\$92.00
D50253	Ultrapure	Mixed Bed	Nanopure Infinity	\$99.00

48 Hour or Sooner
Express Shipping
Guaranteed!*



*see inside front cover for details

Deionization

HOSE NIPPLE CARTRIDGES / BANTAM DEIONIZER

Barnstead

Hose Nipple Cartridge (shown in optional holder)



Hose Nipple

- Lowest cost
- Ideal for small volume applications
- Optional wall mounting holder
- Cartridges utilize the same superior quality resins used in PCS cartridges.
- The 100% virgin polypropylene cartridge rinses to high quality quickly.
- Designed for non-pressure applications¹, these cartridges include .4" (1 cm) barbed hose connections on each end.
- All cartridges (except D8904 and D8911) contain dyes which change color when resin is exhausted.
- Simple wall mounting bracket.

Bantam Deionizer



Bantam Deionizer

- Deionizes your water
- Designed for non-pressurized applications
- Direct reading purity monitor
- Produces 19 to 38 liters per hour.
- Can be used with any PCS cartridge; is most often used with ultrapure or high capacity cartridges.
- Equipped with direct reading purity meter.
- Resistivity can be directly read from 25,000-18,000,000 ohms-cm.
- A non-pressure deionizer cannot accept back pressure; (an outlet must be open to atmosphere).
- Minimum inlet pressure 5 psi; maximum inlet pressure 70 psi.
- Includes 3 ft. of inlet feed tubing.
- Adjustable feed and reject valving.
- Ideal for small volume applications.
- Point of use polishing of pretreated water or single stage treatment of tap water.

ORDERING INFORMATION — HOSE NIPPLE CARTRIDGES

Cat. #	Description	Resin Type(s)	Capacity	Length Inches (cm)	US List Price
D8822	1/2 size combination	Ultrapure, oxygen removal	190 grains as NaCl to 1 megohm-cm endpoint	10.2 (25.9)	\$80.00
D8901	High capacity	Two Bed High capacity	1725 grains as NaCl to 50,000 ohm endpoint	18.7 (47.5)	\$74.00
D8902	Ultrapure	Mixed bed	760 grains as NaCl to 1 megohm-cm endpoint	18.7 (47.5)	\$74.00
D8903	Oxygen removal	Oxygen removal	11 liters S.T.P. (15 grams)	18.7 (47.5)	\$95.00
D8904	Organic removal	Activated carbon	NA	18.7 (47.5)	\$62.00
D8905	Cation removal	Cation	2500 grains as NaCl	18.7 (47.5)	\$62.00
D8911	Ultrapure (no dye)	Mixed bed	760 grains as NaCl to 1 megohm-cm endpoint	18.7 (47.5)	\$81.00
D8921	Pretreatment	Activated carbon, mixed bed	1450 grains as NaCl to 1 megohm-cm endpoint	18.7 (47.5)	\$81.00
D8922	Combination organic removal, Ultrapure	Activated carbon, mixed bed	600 grains as NaCl to 1 megohm-cm endpoint	18.7 (47.5)	\$86.00
D8950	2/3 size High capacity	High capacity	1130 grains as NaCl to 50,000 ohm endpoint	13.3 (33.8)	\$66.00
D8900	Hose Nipple Cartridge Holder				\$24.00

PRODUCT SPECIFICATIONS — BANTAM DEIONIZER

Min. Inlet Pressure	Max. Inlet Pressure	Diameter Inches (cm)	Nose Connection	Shipping Weight Lb. (kg)
5 psig	65 psig	3.4 (8.6)	.4" (1 cm) hose barb	5 (2.3)

¹ Non-pressure refers to the inability of the cartridges to accept back pressure. Output water must be diverted to an atmospherically-vented receptacle.

ORDERING INFORMATION — BANTAM DEIONIZER

Model #	Electrical 50/60 Hz	Flow Rate (max.)	W	Dimensions Inches (cm)			Weight Lb. (kg)	US List Price
				H	D			
D0800	120 VAC	38 /hr.	6 (15.2)	28.5 (72.4)	8.75 (22.2)	15 (6.8)	\$658.00	
D0805	240 VAC	38 /hr.	6 (15.2)	28.5 (72.4)	8.75 (22.2)	15 (6.8)	\$658.00	

Cartridges are sold separately.

48 Hour or Sooner
Express Shipping
Guaranteed!*



*see inside front cover for details

Deionization

CARTRIDGE KITS

Barnstead



CARTRIDGE KITS FOR NANOPURE INFINITY®, NANOPURE®, NANOPURE II®, E-PURE™ ULTRAPURE WATER SYSTEMS

Barnstead ultrapure water systems require expendable cartridges and filters not supplied with the unit. Cartridge kits include everything needed to allow the Barnstead ultrapure water systems to supply 18.3 megohm-cm resistivity Type I reagent grade water.

ORDERING INFORMATION

Part #	Description	Content	US List Price
Cartridge Kits for QuadStyle NANOpure® Systems (Final Filters sold separately)			
D4801	Type I Cartridge Kit: Tap Feed	1-D0835 Pretreatment Cartridge, 1-D0803 High Capacity Cartridge, 2-D5027 Ultrapure Cartridges	\$320.00
D4802	Type I ORGANICfree Cartridge Kit: Tap Feed	1-D0836 MACROpure Cartridge, 1-D0803 High Capacity Cartridge, 1-D5027 Ultrapure Cartridge, 1-D5021 ORGANICfree Cartridge	\$382.00
D5025	Type I Cartridge Kit: Pretreated Feed	1-D0835 Pretreatment Cartridge, 2-D5027 Ultrapure Cartridges, 1-D0809 Ultrapure Cartridge	\$325.00
D5026	Type I ORGANICfree Cartridge Kit: Pretreated Feed	1-D0836 MACROpure Cartridge, 1-D5027 Ultrapure Cartridges, 1-D5021 ORGANICfree Cartridge, 1-D0809 Ultrapure Cartridge	\$404.00
Cartridge Kits for E-pure™ Systems (Final Filters sold separately)			
D5029	3 Module Type I Cartridge Kit	1-D0835 Pretreatment Cartridge, 2-D5027 Ultrapure Cartridges	\$266.00
D5028	4 Module Type I Cartridge Kit	1-D0835 Pretreatment Cartridge, 1-D0803 High Capacity Cartridge, 2-D5027 Ultrapure Cartridges	\$335.00
D50227	4 Module Type I Cartridge Kit: Pretreated Feed	1-D0835 Pretreatment Cartridge, 1-D0809 Ultrapure Cartridge, 2-D5027 Ultrapure Cartridges	\$325.00
D5022	3 Module ORGANICfree Type I Cartridge Kit	1-D0836 MACROpure Cartridge, 1-D5027 Ultrapure Cartridge, 1-D5021 ORGANICfree Cartridge,	\$323.00
D5023	4 Module ORGANICfree Cartridge Kit	1-D0836 MACROpure Cartridge, 1-D0803 High Capacity Cartridge, 1-D5027 Ultrapure Cartridge, 1-D5021 ORGANICfree Cartridge	\$385.00
D50228	4 Module ORGANICfree Cartridge Kit: Pretreated Feed	1-D0836 MACROpure, 1-D5027 Ultrapure Cartridges, 1-D5021 ORGANICfree Cartridge 1-D0809 Ultrapure Cartridge	\$390.00
Cartridge Kits for NANOpure® and NANOpure II® Systems (Final Filters sold separately)			
D3805	3 Module Type I Cartridge Kit	1-D0835 Pretreatment Cartridge, 2-D0809 Ultrapure Cartridges	\$252.00
D3804	4 Module Type I Cartridge Kit	1-D0835 Pretreatment Cartridge, 1-D0803 High Capacity Cartridge, 2-D0809 Ultrapure Cartridges	\$330.00
D3806	3 Module ORGANICfree Type I Cartridge Kit	1-D0836 MACROpure Cartridge, 1-D0809 Ultrapure Cartridge, 1-D0820 ORGANICfree	\$305.00
D3807	4 Module ORGANICfree Type I Cartridge Kit	1-D0836 MACROpure Cartridge, 1-D0803 High Capacity Cartridge, 1-D0809 Ultrapure Cartridge, 1-D0820 ORGANICfree	\$380.00
Cartridge Kits for NANOpure Infinity™			
D50256	Type I Cartridge Kit TAP or DI Feed	1 -D50251 Pretreatment Cartridge, 3 -D50253 Ultrapure Cartridges, 2 -FL703X2 Final Filters	\$453.00
D50257	Type I Cartridge Kit RO or Dist. Feed	1 -D50250 Pretreatment Cartridge, 3 -D50253 Ultrapure Cartridges, 2 -FL703X2 Final Filters	\$421.00
D50254	ORGANICfree Cartridge Kit TAP or DI Feed	1 -D50251 Pretreatment Cartridge, 2 -D50253 Ultrapure Cartridges, 1 -D50252 ORGANICfree Cartridge, 2-FL703X2 Final Filters	\$440.00
D50255	ORGANICfree Cartridge Kit RO or Dist. Feed	1-D50250 Pretreatment Cartridge, 2-D50253 Ultrapure Cartridges, 1-D50252 ORGANICfree Cartridge, 2-FL703X2 Final Filters	\$432.00

Deionization

REPLACEMENT CARTRIDGES

Barnstead

PUREpack Cartridge



REPLACEMENT CARTRIDGES FOR MILLIPORE® WATER SYSTEMS

- — Reduce the operating costs of your Millipore Milli-Q® Plus Water System while optimizing performance
- — Guaranteed performance
- — Low price
- — Available through your local laboratory distributor

PUREPACK DEIONIZATION REPLACEMENT CARTRIDGE

Replacements for Millipore water systems including: Milli-Q RG Water System (ZD51 115 84), Milli-Q Plus Water System (ZD52 115 84), Alpha-Q Water System (ZFHQ 060 01), Milli-Q UV Plus Water System (ZD60 115 UV), Milli-Q TOC Plus (SL1R 096 M4), Milli-Q PF Plus (ZD54 115 95), Milli-Q UF Plus (ZD53 115 95)

PUREpack Model #	Description	US List Price
D50265	PUREpack cartridge for reverse osmosis, distillation or ultrafiltration feedwater source (Includes final filter) Replacement for Millipore QPAK Cartridge (Millipore Catalog # CPMQ K05 R1.)	\$385.00
D50267	PUREpack cartridge for reverse osmosis, distillation or ultrafiltration feedwater source Replacement for Millipore QPAK Cartridge (Millipore Catalog # CPMQ 004 R1.)	\$350.00
D50266	PUREpack cartridge for deionized feedwater source (Includes final filter) Replacement for Millipore QPAK Cartridge (Millipore Catalog # CPMQ K05 D2.)	\$385.00
D50268	PUREpack cartridge for deionized feedwater source. Replacement for Millipore QPAK Cartridge (Millipore Catalog # CPMQ 004 D2.)	\$350.00

PUREpack RO REPLACEMENT CARTRIDGE

Replacements for Millipore Reverse Osmosis systems including: Milli-RX® 20, Milli-RX 45, Milli-RX 75, Milli-RO 3 Plus, Milli-RO® 5 Plus, Milli-RO 8 Plus, Milli-RO 12 Plus, Milli-RO 30 Plus, Milli-RO 60 Plus, Milli-RO 90 Plus, AFS 10, AFS 18, AFS 30, AFS 200, AFS 300, AFS 1500, AFS 2000, AFS 3500, AFS 5500 RX

PUREpack Model #	Description	US List Price
D50269	PUREpack RO cartridge for compact systems and AFS analyzer feed systems Replacement for Millipore Catalog # CPRO P04 02.	\$282.00

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Deionization

REPLACEMENT CARTRIDGES

Barnstead

PRODUCT SPECIFICATIONS

	Barnstead PUREpack1 w/filters	Barnstead PUREpack1	Barnstead PUREpack2 w/filters	Barnstead PUREpack2	Barnstead PUREpack RO
Cartridge Catalog Number	D50265	D50267	D50266	D50268	D50269
Final Filter Included	Yes	No	Yes	No	No
Grain Capacity/pak (CaCo3)	1121	1121	594	594	NA
Cost Per Liter(based on list price)	\$0.186	\$0.169	\$0.35	\$0.319	NA
Liters Produced (to 10 megohm endpoint)	2070	2070	1098	1098	NA
US List Price	\$385.00	\$350.00	\$385.00	\$350.00	\$282.00

PUREpack Model #	Description	US List Price
D50224	Replacement ultrapure cartridge kit compatible with Millipore 3 Bowl Milli-Q and 4 Bowl Milli-Q Plus Life Science systems. Kit includes two deionization cartridges, one carbon cartridge, and one final filter. Replacement for Millipore Catalog # CDMF 012 04 or CFUF 012 04.	\$169.00
D50225	Replacement ultrapure cartridge kit compatible with Millipore 4 Bowl Milli-Q for analytical and 5 Bowl Milli-Q Plus for life science/analytical.* Kit includes two deionization cartridges, one carbon cartridge, one prefilter and one final filter. Replacement for Millipore Catalog # CDMF 012 05 or CFIF 012 05.	\$235.00
D50226	Replacement ultrapure cartridge kit compatible with Millipore 4 Bowl Milli-Q for analytical and 5 Bowl Milli-Q Plus life science/analytical.* Kit includes two deionization cartridges, one carbon cartridge, one low TOC cartridge and one final filter. Replacement for Millipore Catalog # CDOF 012 05 or CFOF 012 05.	\$235.00
D8832	Individual deionization cartridges, compatible with above Millipore systems. Replacement for Millipore Catalog # CPMB 012 02.	\$48.00
D8834	Individual low TOC cartridge, compatible with above Millipore systems. Replacement for Millipore Catalog # CDEX 012 01.	\$68.00
D8831	Individual carbon cartridge, compatible with above Millipore systems. Replacement for Millipore Catalog # CDFC 012 04.	\$39.00
D8830	Individual prefilter, compatible with above Millipore systems. Replacement for Millipore Catalog # CWSC 01T P3.	\$82.00
D3750	Individual final filter, compatible with above Millipore systems. Replacement for Millipore Catalog # MPGL 04S K2 or CW03 012 C3.	\$63.00

*Does not include Pyrogard® ultrafilter, must be ordered separately from Millipore.

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