

The Ultimate in Water Purity

& Convenience

For Volume Requirements of Less Than
15 Liters Per Day



EASypure® II

 Barnstead

Low Volume Reagent-Grade Water Systems Provide the Ultimate in Pu

William Barnstead introduced the first water purification system for Massachusetts General Hospital in 1878. Today, the company he founded is at the forefront of the global technology revolution, supplying equipment that purifies water for analytical procedures, molecular biology applications, and more.



EASYpure® II - Barnstead's Next Generation of Ultrapure Water Systems

EASYpure II is designed for those scientists requiring less than 15 liters per day of ultrapure water for their most demanding applications and provides an affordable and convenient alternative to costly bottled water. With the six application specific models, you can choose the perfect system for your critical analytical, biological, or life science needs. Water produced by the EASYpure II is dispensed directly from the system, eliminating potential cross-contamination that may occur with the use of large containers of bottled water.

Common Features to all EASYpure II systems

- ▶ Compact design gives you an ultrapure water source within easy reach.
- ▶ Microprocessor-controlled purity monitor provides digital resistivity readings, temperature compensated to 25°C.
- ▶ A standby 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 components are constructed of inert materials ensuring maximum ionic and organic purity.
- ▶ All units, except the EASYpure II RF and RF/UV, come complete with a standard wall bracket for more flexibility in choosing a location.
- ▶ Feed water must be pretreated by reverse osmosis, distillation or deionization.
- ▶ Each system produces water that exceeds all ASTM, NCCLS and CAP Type I water standards.
- ▶ Three cartridges in series provides increased capacity over similar systems.
- ▶ A 0.2-micron hollow fiber absolute filter at the point of use provides water free of particles and bacteria.
- ▶ Whisper quiet pump provides optimal flow rates and silent operation.
- ▶ Integral low water and low pressure pump protectors included to protect the pump in the event that the feed water is interrupted to the system.
- ▶ All systems include a Pressure Regulating Valve allowing you to feed water into the systems with pressures ranging from gravity to 100 psig.

EASYpure II - Reservoir Feed (RF) Systems

The EASYpure II RF and RF/UV portable systems incorporate an integral non-contaminating 6.5 liter reservoir that allows you to mount the system where it is convenient not where you have a permanent supply of water available. Simply pour pretreated water into the reservoir and it's ready for use.

- ▶ Allows ultrapure water to be placed within easy access of analytical instruments.
- ▶ RF system provides purified water with 5-10 ppb ($\mu\text{g/L}$) Total Organic Carbon and up to 18.2 megohm-cm water.
- ▶ RF/UV system provides purified water with 1-5 ppb ($\mu\text{g/L}$) Total Organic Carbon and up to 18.2 megohm-cm water.
- ▶ Ideal for analytical procedure requiring water free of organics, inorganics and bacteria.
- ▶ Delivers up to 0.8 liters of ultrapure water per minute.
- ▶ Ideal for your most demanding analytical and biological applications requiring water free of organics, inorganics and bacteria including HPLC, GC/MS, AA, ICP/MS AND IC.

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EASypure II - Line Feed Systems

The EASypure II line feed systems use a permanent source of pretreated water fed either from an external reservoir or a permanent pretreated line as a feed source. The four application-specific models allow you to use the water for virtually any application requiring pure water such as HPLC, GC/MS, AA, ICP/MS, IC, Cell and Tissue Culture, monoclonal antibody production, PCR, DNA studies and 2D electrophoresis.

- ▶ All line feed systems provide at least 1.0 liter per minute of purified water whether fed from a reservoir or a pressurized line.
- ▶ All EASypure II line feed models include a standard wall-mounting bracket.
- ▶ Pressure regulating valve adds flexibility without adding cost.
- ▶ The cartridge housing is easily accessible from the side making cartridge installation and replacement easy.
- ▶ The optional remote dispenser allows you to deliver water up to 8 feet (2.4 m) away from the system.

EASypure II LF - Analytical Applications

- ▶ Produces Type I water ideal for your most critical inorganic determinant analysis. Perfect for AA, ICP, GC, and ICP/MS.
- ▶ Several Cartridge formulations are available to adapt to the available feed water and your application requirements.
- ▶ Exceeds all ASTM, NCCLS and CAP Type I water purity standards.

EASypure II UV - Analytical Applications Requiring Ultra Low Levels of Organics

- ▶ Provides superior low cost high quality water to meet or exceed your most critical inorganic and organic determinant needs.
- ▶ Provides water quality of 1-5 ppb ($\mu\text{g/L}$) TOC (total organic carbon) and up to 18.2 megohm-cm.
- ▶ Ideal for low-wavelength HPLC (<230 nm), IC, GC/MS and organic synthesis applications where organic removal is essential.
- ▶ The dual wavelength quartz UV lamp (185 & 254 nm) oxidizes organics to virtually undetectable levels while controlling bacterial growth within the system.
- ▶ Exceeds all ASTM, NCCLS and CAP Type 1 water purity standards
- ▶ Delivers water with flow rates greater than 1 liter per minute with pressurized feed. System can be fed either from a storage reservoir or a pressurized line.
- ▶ Water exiting the system has bacteria levels < 1 CFU/ml.

EASypure II UF - Biological and Some Life Science Applications

- ▶ The EASypure II UF uses a hollow fiber ultrafilter that provides product water with pyrogen (endotoxin) levels less than 0.001 Eu/ml.
- ▶ Provides low cost, biologically-pure water with <10 ppb ($\mu\text{g/L}$) TOC (total organic carbon) and resistivity up to 18.2 megohm-cm.



Line Feed Models
Cartridge Housing



Filter 0.2
micron with
Filling Bell



Digital Resistivity Monitor

- ▶ Automatic or manual intermittent flushes clean the ultrafilter without wasting valuable high purity water.
- ▶ Ideal for cell and tissue culture and monoclonal antibody production.

EASypure II UV/UF - Analytical, Biological and Life Science Applications

- ▶ Delivers high purity water free of virtually all contaminants.
- ▶ Product water will not degrade RNA...ideal for DNA amplification (PCR) and electrophoresis.
- ▶ Removes RNase and DNase from concentrated feed sources to below detection levels.
- ▶ Eliminates the risk and expense of using DEPC to remove nucleases.
- ▶ Automatic or manual intermittent flushes clean the ultrafilter without wasting valuable high purity water.
- ▶ Produces product water with pyrogen (endotoxin) levels <0.001 Eu/ml and organics < 5 ppb ($\mu\text{g/L}$).
- ▶ Water exiting the system has bacteria levels < 1 CFU/ml.
- ▶ The dual wavelength quartz UV lamp (185 & 254nm) oxidizes organics to virtually undetectable levels while controlling bacterial growth within the system.
- ▶ The EASypure II UV/UF uses a hollow fiber ultrafilter that ensures product water with less than 0.001 EU/ml pyrogens (bacterial endotoxins.)

Product Specifications

Model #	Overall Dimensions Inches (cm)			Maximum Inlet Pressure psig	Inlet Water Temperature °F (°C)	Voltages 47 - 63 Hz	Maximum Flow Rates Pressurized Feed
	W	H	D				
D7031 & D7035	12 (30.5)	18.1 (46)	19 (48.3)	Not Applicable	40°-104° (4°-40°)	100-240 VAC	0.8 LPM
D7381 & D7401	12 (30.5)	18.1 (46)	19 (48.3)	100 (6.9 bar)	40°-104° (4°-40°)	100-240 VAC	1.1 LPM
D7411 & D8611	12 (30.5)	18.1 (46)	19 (48.3)	100 (6.9 bar)	40°-104° (4°-40°)	100-240 VAC	1.1 LPM

Ordering Information

Model #	Description	Recommended Cartridge Kit	Shipping Weight Lb. (kg)
D7031	EASypure II RF	D502126, D502127, D502125 or D502124	35 (15.8)
D7035	EASypure II RF/UV	D502124 or D502125	35 (15.8)
D7381	EASypure II LF	D502126, D502127, D502125 or D502124	35 (15.8)
D7401	EASypure II UV	D502124 or D502125	35 (15.8)
D7411	EASypure II UF	D502126, D502127, D502125 or D502124	35 (15.8)
D8611	EASypure II UV/UF	D502124 or D502125	35 (15.8)

Patents issued: Des. 347, 25B; 5, 597, 468; 5, 399, 263

Accessories

Model #	Description
D50230	Pretreatment Cartridge Deionized Feed
D50229	High Purity/Low TOC Cartridge
D50231	Pretreatment Cartridge Distilled and RO Feed
D50233	Ultrapure Cartridge
D502124	EASypure Kit Ultra low Organics Deionized Feed (Final Filter sold separately)
D502125	EASypure Kit Ultra low Organics Distilled or RO Feed (Final Filter sold separately)
D502126	EASypure Kit Type I Deionized Feed (Final Filter sold separately)
D502127	EASypure Kit Type 1 Distilled or RO Feed (Final Filter sold separately)
D3750	Final Filter, 0.2 micron with Filling Bell (EASypure II)
D50245	Sanitization Cartridge
D7034	Set of 3 Empty EASypure cartridges for EASypure II RF and RF/UV sanitization
CMX25	Sanitization syringe for EASypure II Line Feed models
D11981	Optional Remote Dispenser for all systems except D7031 & D7035



Optional Remote Dispenser

- ▶ The remote dispenser attaches to all line feed EASypure II systems. Not available for reservoir feed systems.
- ▶ The dispenser provides recirculation of the water up to the tip of the dispenser virtually eliminating any dead volume.
- ▶ Delivers water up to 8 feet (2.4 meters) from the system allowing you to bring your water to your work not your work to your water.
- ▶ All wetted parts are non-contaminating material insuring that the water quality is maintained.
- ▶ Includes a hollow fiber 0.2 micron final filter at the point of dispensing ensuring that the water exiting the dispenser is bacteria and particle-free.
- ▶ Maintains optimum system flow rates.
- ▶ Comes complete with a wall mounting bracket for increased flexibility in choosing a mounting location.