Barnstead Deionization



NANOpure® Dlamond™ UF and UV/UF Systems



NANOpure Diamond with remotable control

Product Description

- Choose from four application specific models—then customize your system with the best cartridge pack for your needs.
- Multi-language display.
- Bring your water to your work—with the optional remote dispenser. Water can be dispensed up to 8 feet from your system.
- One model accounts for worldwide voltages and fluctuations.
- Universal design allows for wall or bench mounting.
- Feed water pressure fluctuations are no problem with the DIamond. Every system comes complete with a pressure-regulating valve.
- TOC (Total Organic Carbon) analyzer models available.
- Volumetric and timed dispense features allow you to fill carboys without monitoring
- Feed water and application specific cartridge packs provide for optimum removal capabilities of unwanted contaminants
- Delivers up to 1.5 Liters Per Minute of purified water
- All components are constructed of extremely inert materials ensuring maximum ionic and organic purity
- System Diagnostics allows you to evaluate important system and alerts you if a problem exists
- The system can be programmed to alert you if the water quality drops below your desired set point.
- RS232 output enables you to print or save to a computer or an optional printer

Operation

- Purity up to 18.2 megohms-cm—exceeds ASTM, CAP and NCCLS Type I water requirements.
- Complies with USP XXIII guidelines with compensated and uncompensated resistivity measurements.
- Whisper quiet operation with the newest pump technologies.
- · Automatic sanitization cycle helps keep your system clean.

The Premier Ultrapure Water System on the Market

- Dispense water without monitoring your carboys with volumetric or timed dispensing
- Save on bench space without reducing product output with the smaller footprint
- Calibrate your system electronics in the field with the NIST Traceable Calibration Module
- Monitor TOC and resistivity with the new Dlamond TOC Models
- Maintain your water quality during periods of non-use with the standby mode of operation recirculating water for 10 minutes every hour.
- Maintain bacterial and particle free water with a 0.2 micron absolute final filter.
- Trust your purity reading with automatic calibration verification of the electronics and optional NIST traceable calibration module.

NANOpure Dlamond UF

When it is essential that your ultrapure water contain undetectable levels of Pyrogens, the DIamond UF is the right choice. The ultrafilter incorporated within the system produces water with less than 0.001 Eu/ml and log reduction values (LRV) over 6. To prevent the build up of contaminants on the surface of the membrane, the DIamond will periodically automatically flush water to drain. The automatic sanitization cycle enables you to routinely sanitize the system quickly and effectively. The ideal system for any application requiring pyrogen free water including cell and tissue culture.

Unique Features – NANOpure Dlamond UF

- The NANOpure DIamond UF uses a hollow fiber ultrafilter that ensures product water with less than 0.001 Eu/ml pyrogens (bacterial endotoxins)
- Provides low cost biologically pure water with less than 10 ppb TOC (total organic carbon) and up to 18.2 megohm-cm resistivity
- An automatic or manual intermittent flush cleans the ultrafilter without wasting valuable high purity water
- Ideal for critical application including cell and tissue culture and monoclonal antibody production
- Deliver water up to 8 feet away with the optional remote dispenser
- Water exiting the system has < 1 CFU/ml bacteria levels
- Deliver water up to 8 feet away with the optional remote dispenser
- Comes complete with a wall mounting bracket

NANOpure Diamond Life Science (UV/UF)

The most complete water system on the market today. Includes the latest advances in ion exchange and filtration technologies as well as a dual

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wavelength UV lamp and ultrafilter. This system has demonstrated the ability to remove nucleuses such as RNase and DNase as well as DNA from challenged feed water. The water exiting the system is ideal for your most demanding molecular biology applications including; PCR, electrophoresis, as well as cell and tissue culture. The system includes automatic sanitization as well as automatic and manual ultrafilter flushing. The system produces ultrapure water containing $<0.005\,$ Eu/ml of pyrogens, TOC values <3 ppb, resistivities up to 18.2 megohm-cm and no detectable RNase, DNase and DNA.

Unique Features – NANOpure Diamond Life Science (UV/UF)

- Product water will not degrade RNA...ideal for DNA amplification (PCR) and electrophoresis
- Removes RNase, DNase and DNA from concentrated feed sources
- An automatic or manual intermittent flush cleans the ultrafilter without wasting valuable high purity water
- Produces low cost pyrogen-free (< 0.001 Eu/ml) water for tissue and cell culture and monoclonal antibody production
- Water exiting the system has < 1 CFU/ml bacteria levels
- Deliver water up to 8 feet away with the optional remote dispenser
- Comes complete with a wall mounting bracket

				PRODUCT SPECI	FICATIONS			
W O	verall Dimensio Inches (cm) H	ons D	Maximum Inlet Pressure psig	Inlet Connection	Inlet Water Temperature °F (°C)	Voltages 47 - 63 Hz	Maximui Gravity Feed	m Flow Rates Pressurized Feed
13.4 (34)	19.5 (49.5)	16.9 (42.9)	100	3/8" Inlet Tubing (supplied)	40°-120° (4°-49°)	90-240 VAC	1.5 LPM	1.6 LPM

		RDERING INFORMATION	
Model #	Description	Shipping Weight Lb. (kg)	US List Price
D11921	NANOpure Dlamond UF	40 (18.2)	\$5,114.00
D11931	NANOpure Dlamond UV/UF	45 (20.4)	\$5,457.00
D11961	NANOpure Dlamond UF TOC	40 (18.2)	\$6,252.00
D11971	NANOpure Dlamond Life Science TOC	45 (20.4)	\$8,143.00
Patents issu	ed		
		Accessories	
Model #	Description		US List Price
D11981		amond allowing you to deliver water up to 8 feet away from the unit. coiled tube allows for easy use while taking up a minimal amount of space	\$512.00
AY1137X1	Printer, 120 or 240V—provides you a paper document of conductivity of the product water at regular intervals	\$502.00	
E896X5	NIST Calibration module		\$94.00
CMX25	Sanitization Syringe		\$22.00
	DIA	AMOND CARTRIDGE PACKS	
Dlamond Car			
Fach NANOnu			
	re Diamond utilizes a unique cartridge pack that provides for si Ir feed water and application. Each pack includes one 0.2 micro	mple installation. Only one connection is required to install or remove the cartridge pack n absolute final filter.	Select the cartridge pack
that meets you		n absolute final filter.	. Select the cartridge pack
that meets you	ur feed water and application. Each pack includes one 0.2 micro	n absolute final filter.	. Select the cartridge pack
NOTE: NAN Cartridge Page	ır feed water and application. Each pack includes one 0.2 micro Opure Dlamond must be fed with pretreated water	n absolute final filter.	. Select the cartridge pack US List Price
that meets you NOTE: NAN Cartridge Pac Model #	rr feed water and application. Each pack includes one 0.2 micro Opure Dlamond must be fed with pretreated water ks and Filters	n absolute final filter.	
NOTE: NAN Cartridge Pac Model # D50280	ur feed water and application. Each pack includes one 0.2 micro Opure Diamond must be fed with pretreated water iks and Filters Description Diamond Kit Organic Free	n absolute final filter. Application Capacity Ultra-Low Organics 1107 grains* Type I Water (1434 meq)	US List Price
that meets you	ur feed water and application. Each pack includes one 0.2 micro Opure Dlamond must be fed with pretreated water iks and Filters Description Dlamond Kit Organic Free R/O and Distilled Feed Dlamond Kit Organic Free	n absolute final filter. Application Capacity Ultra-Low Organics 1107 grains* Type I Water (1434 meq) Reverse Osmosis or Distilled Water Feed Ultra-Low Organics 1107 grains* Type I Water (1434 meq)	US List Price \$473.00

\$75.00

D3750

* as CaCO3

Filter, 0.2 micron