



**MAR COR**  
**PURIFICATION**  
A Cantel Medical Company

## NANOpure® Diamond™ Life Science (UV/UF)



*NANOpure Diamond*

### The Premier Ultrapure Lab Water System on the Market

- Compact design to save bench space
- Feed water and application specific cartridges optimize performance
- Volumetric and timed dispense features allow unattended monitoring
- System alert if water quality is below set point
- Two-year parts warranty

#### Mar Cor Purification

Mar Cor Purification is one of the largest and most experienced service-based water purification companies in North America; we have been servicing water treatment equipment for over 30 years and have an experienced team of service technicians. We offer a complete line of point-of-use polishing systems for a broad range of applications. We can provide installation, support components such as service DI, maintenance and service from one of our 17 service centers throughout North America.



*The display and controls can be mounted up to ten feet away from your system providing you flexibility in choosing a mounting location.*

#### NANOpure Diamond Life Science (UV/UF)

The most complete water system on the market today. Incorporating the largest advances in ion exchange and filtration technologies as well as a dual wavelength UV lamp and ultrafilter. This system has demonstrated the ability to remove nucleases 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 cleaning as well as automatic and manual ultrafilter flushing. The system produces ultrapure water containing < 0.001 En/ml of pyrogens, TOC values < 1-5 ppb, resistivities up to 18.2 megohm-cm and no detectable RNase, DNase and DNA.

#### Unique Features – 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
- 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

#### Operation

- Purity up to 18.2 megohms-cm exceeds ASTM, CAP and NCCLS Type I water requirements.
- Complies with USP 28 guidelines with compensated and uncompensated resistivity measurements.
- Whisper quiet operation with the newest pump technologies.
- Automatic cleaning cycle helps keep your system clean.
- 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 final filter.
- Trust your purity reading with automatic calibration verification of the electronics and optional NIST traceable calibration module.



*Easy Cartridge replacement with "one connection" cartridge pack.*

# NANOpure® Diamond™ Life Science (UV/UF)

## 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.
- Can be upgraded with a TOC (Total Organic Carbon) analyzer.
- 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 functions and alerts you if a problem exists
- RS232 output enables you to print or save vital system information to a computer or an optional printer

## Ordering Information

### NANOpure Product Specifications\*

Model#	Description	Max Inlet psig	Inlet	Inlet Temp F (C)	Voltages 47 - 63 Hz	Maximum Flow Rates Gravity	Pressurized
273-42-027	Diamond UF**	100	3/8" Inlet	40-120(4-49)	90-240VAC	1.5 LPM	1.6 LPM
273-42-036	Diamond UF with TOC analyzer**	100	3/8" Inlet	40-120(4-49)	90-240VAC	1.5 LPM	1.6 LPM

### Diamond Cartridge Packs

Model#	Description	Application	Capacity
273-42-280	Diamond Kit Organic Free R/O and Distilled Feed for units with UV lamp (includes 0.2 micron final filter)	Ultra-Low Organics Type I Water R/O or Distilled Feed Water	1160 as NaCl (1503 meq)
273-42-281	Diamond Kit Organic Free Deionized Feed for units with UV lamp (includes 0.2 micron final filter)	Ultra-Low Organics Type I Water Deionized Water Feed	1160 as NaCl (1503 meq)
273-42-282	Diamond Kit Type I, Type I R/O and Distilled Feed for Analytical or UF units (includes 0.2 micron final filter)	Low Organics Type I Water R/O or Distilled Feed Water	1160 as NaCl (1503 meq)
273-42-283	Diamond Kit Type I, Type I Deionized Feed for Analytical or UF units (includes 0.2 micron final filter)	Low Organics Type I Water Deionized Water Feed	1160 as NaCl (1503 meq)

### Accessories

Model#	Description
273-42-928	AccuDispenser - volumetric remote dispenser
273-42-927	Remote Dispenser - easily attaches to the NANOpure Diamond allowing you to deliver water up to 8 feet away from the unit. Unique design virtually eliminates any dead volume and coiled tube allows for easy use while taking up a minimal amount of space
273-42-929	NIST Calibration module
273-42-952	Cleaning Syringe
273-42-980	Diamond series IQ/OQ documents (without TOC readout)
273-42-981	Diamond series IQ/OQ documents (with TOC readout)

\* Overall System Dimensions, Inches (cm) - 13.4 (34) x 19.5 (49.5) x 16.9 (42.9)

\*\* System prices do not include "Cartridge Packs"



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Mar Cor Purification  
4450 Township Line Road  
Skipack, PA 19474-1429  
U.S.A.  
Tel: (484) 991-0220  
Toll Free: (800) 346-0365  
Fax: (484) 991-0230

Mar Cor Purification  
14605 28th Avenue North  
Minneapolis, MN 55447-4822  
U.S.A.  
Tel: (763) 553-3300  
Toll Free: (800) 328-3370  
Fax: (763) 553-3387

Mar Cor Purification  
3250 Harvester Road - Unit 6  
Burlington, ON L7N 3W9  
Canada  
Tel: (905) 639-7025  
Toll Free: (800) 268-5035  
Fax: (905) 639-0425

Minntech B.V.  
Sourethweg 11  
6422 PC Heerlen  
The Netherlands  
Tel: (+31) 45 5471 471  
Fax: (+31) 45 5429 695

Minntech Asia/Pacific Pte. Ltd  
438 Alexandra Road  
#03-01 Alexandra Point  
Singapore 119958  
Tel: (+65) 6227 9698  
Fax: (+65) 6225 6848

www.mcpcr.com