

Puris EVO-CB Combination Water Systems



Features

- EVO-CB systems take potable water and treat this by reverse osmosis and ultra-pure polishing to produce water meeting all ultra-pure standard such as ASTM Type 1, ISO3696, CAP, NCCLS and USP
- The purified water can be used with precision instrumentation such as HPLC, AAS, ICP, LC-MS, GC-MS and spectroscopy as well in electrochemistry, TOC analysis, molecular biology, life sciences and semi-conductor engineering
- With the optional remote S type dispenser, up to 3 units may be attached simultaneously and fitted with different final filters for removal of particulates, endotoxins (pyrogens) and microbial contaminants
- The display enables real-time monitoring of water quality, filter pack life, storage tank level, TOC and pH of permeate water (TOC and pH models)

Puris EVO series of water purification systems include stand-alone reverse osmosis, combination reverse osmosis and ultra-pure polisher, and stand-alone ultra-pure polishers.

EVO-CB systems combine reverse osmosis and ultrapure polishing in a single, compact unit that can be matched to most if not all laboratory applications.

EVO systems have a simple, innovative design using the best of current technologies and manufacturing processes.

Puris Ultra-Pure water systems are designed for use in laboratories or wherever a supply of purified water is required to meet specified standards such as CAP, ASTM and NCCLS. Rotek and Puris have partnered to design, manufacture and support routine and research facilities with versatile, simple to use, high-performance water systems. Applications include life sciences, pathology, medical research, electronics manufacturing, instrumentation, tissue culture and QC/QA processes in pharmaceutical manufacturing.



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Product Quality

Production facilities are ISO 9001, ISO 14001 registered, CE and CB certified. Product performance meets all international standards for water quality up to ultrapure grades. Mirae has also been awarded the NEP mark in South Korea for superior design and manufacturing quality; a first for any manufacturer of this equipment type worldwide.



Revolutionary Smart-Dispensers

Puris, S-Dispensers provide easy, remote access for control and dispensing water from the main polisher unit. All control and display functions are duplicated and up to 3 separate dispensers may be used simultaneously. Purified water is recirculated from the main polisher through each dispenser head continuously before final sub-micron filtration.



4.3" Wide Digital Display Screen

Enables an at-a-glance display of all operational conditions including water quality, fixed-quantity water sampling, and device control status. Both monitoring and programming can be performed both from the main unit and from the S-dispenser.



Options for Water Quality Management

Include:

- Dual wavelength UV irradiation lamp to sterilise the purified water as well as reduce TOC to <5ppb
- TOC monitor
- Data output to enable GLP validation, data logging of water quality and printing via a dedicated printer

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Specifications

Item	Evo-CB Dio10	Evo-CB Dio20	Evo-CB Dio UV	Evo-CB Dio UF	Evo-CB Dio VF	Evo-CB Dio VFT
Flow Rate up to RO (l/hr)/UP (l/min)	10/2.0	20/2.0	10/2.0	10/2.0	10/2.0	10/2.0
Product Quality						
• Resistivity at 25°C MΩ/cm	18.2	18.2	18.2	18.2	18.2	18.2
• TOC ppb (µg/l)	<10	<10	<5	<10	<5	<5
• Particles (0.2µm) ea/ml	<1	<1	<1	<1	<1	<1
• Bacteria cfu/ml	<1	<1	<1	<0.1(*)	<0.1(*)	<0.1(*)
• Endotoxin EU/ml	-	-	-	<0.001(*)	<0.001(*)	<0.001(*)
• Rnase ng/ml	-	-	-	<0.01(*)	<0.01(*)	<0.01(*)
• Dnase pg/µl	-	-	-	<4(*)	<4(*)	<4(*)
• Inorganics ppb	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
• Conductivity (RO) µs/cm at 25°C	1-25	1-25	1-25	1-25	1-25	1-25
System Monitoring & Display	• Time setting for volumetric dispenser • Filter pack exchange reminder					
	• Program timer for RO membrane cleaning • TOC monitoring (TOC model)					
	• Protection for high-temp and low quality of feedwater					
Utilities						
• Electrical power	120/240V, 50/60Hz, 1.6A					
• Dimension Main Unit/S-Dispenser	W350 x D430 x H520mm/ W235 x D180 x H635mm					
• Operating Weight Main Unit/S-Dispenser	20 - 22.5kg/ 5.0kg					
Standard Accessories	• Dio-PC Pack • Dio-Pack III					
	• 1-2 Dico RO membrane • Cable & Tubing Kit					
	• Final filter, 0.2 µm	• Dio-UV Lamp (185/254nm)		• Dio-UF Filter	• Dio-UV Lamp (185/254nm) • Dio-UF Pack	
Optional Accessories	• Printer for data output • Reservoir 35L					

(*) with Dio-UF Filter as a final polisher

Feedwater Conditions

- Temperature – 5-35°C
- Filtered to 5µm or better
- Free Chlorine - <3ppm
- Fouling Index - <12
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- PH – 4-10
- Pressure – 10-60psi / 70-420 kPa / 0.07 – 4.13bar