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# MIRAE ST



# Puris Evo Series

## Features

- Producing pure and ultrapure water that meets ASTM, ISO3696, CLSI, EP, and USP regulations.
- 4.3-inch color display and intuitive icons enable convenient system setting and control.
- Volumetric dispensing
- USB Port
- Arm type Dispenser
- TOC Monitor(Evo-UP Dio UT)



- Conductivity
- Temperature (Feed)
- Resistivity
- Temperature (RO)
- Processing
- Reservoir status

# Evo-CB Water Systems

## Specification

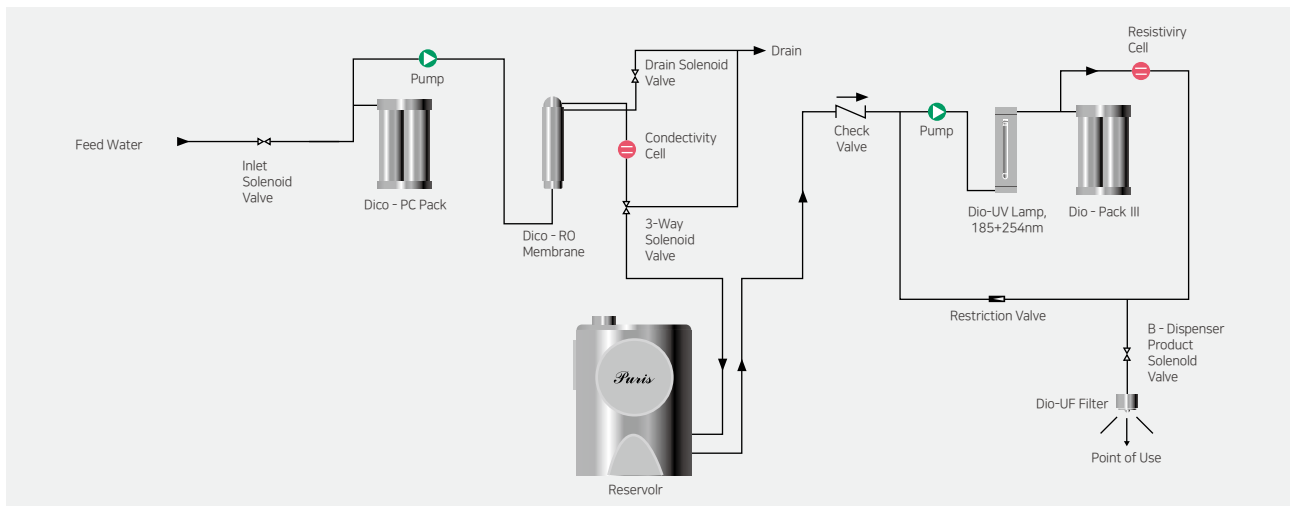
Model		Evo-CB Dio10	Evo-CB Dio 20	Evo-CB Dio UV	Evo-CB Dio VF
Production flow rate (up to)	Type I	2.0L/min	2.0L/min	2.0L/min	2.0L/min
	Type III	10L/hr	20L/hr	10L/hr	10L/hr
Quality	Resistivity Type I	18.2MΩ·cm	18.2MΩ·cm	18.2MΩ·cm	18.2MΩ·cm
	Conductivity Type III	1-25µs/cm	1-25µs/cm	1-25µs/cm	1-25µs/cm
	TOC Type I	<10ppb	<10ppb	<5ppb	<5ppb
	Particles (0.2µm) Type I	<1EU/mL	<1EU/mL	<1EU/mL	<1EU/mL
	Bacteria Type I	<1CFU/mL	<1CFU/mL	<1CFU/mL	<1CFU/mL
	*Endotoxin Type I	-	-	-	<0.001EU/mL
	*Rnase Type I	-	-	-	<1pg/mL
*Dnase Type I	-	-	-	<5pg/mL	

※With Dio-UF Filter

## Configuration

Model	Evo-CB Dio10	Evo-CB Dio20	Evo-CB Dio UV	Evo-CB Dio VF
Electrical Power	• 120-240v, 50-60Hz, 1.6A			
Dimension	• W350*D430*H520mm			
Operating Weight	• 22kg			
Standard Accessories	• Dico-PC Pack		• Dico-RO Membrane	
	• Dico-RO Membrane*2ea (Evo-CB Dio 20)		• Dio-Pack III	
	-	-	• Dio-UV Lamp, 185+254nm	
Optional Accessories	• Final filter, 0.2µm		• Dio-UF Filter	
	• Operation Manual		• Power Cable	
	• Reservoir20L		• Reservoir35L	
	• Reservoir60L		• USB	

## Flow Diagram



## Accessories

Description	Item NO.	Description	Item NO.
Dico-PC Pack	21101	Dio-UV Lamp, 185+254nm	20301
Dico-RO Membrane	21102	Dio-UF Filter	20303
Dio-PackIII	21401	Final Filter, 0.2µm	20304

# Evo-UP Water Systems

## Specification

Model		Evo-UP Dio BA	Evo-UP Dio UV	Evo-UP Dio UT	Evo-UP Dio VF	
Production flow rate (up to)	Type I	2.0L/min	2.0L/min	2.0L/min	2.0L/min	
	Resistivity	Type I	18.2M $\Omega$ ·cm	18.2M $\Omega$ ·cm	18.2M $\Omega$ ·cm	18.2M $\Omega$ ·cm
Quality	TOC	Type I	<10ppb	<5ppb	<5ppb	<5ppb
	Particles (0.2 $\mu$ m)	Type I	<1EU/mL	<1EU/mL	<1EU/mL	<1EU/mL
	Bacteria	Type I	<1CFU/mL	<1CFU/mL	<1CFU/mL	<1CFU/mL
	*Endotoxin	Type I	-	-	-	<0.001EU/mL
	*Rnase	Type I	-	-	-	<1pg/mL
	*Dnase	Type I	-	-	-	<5pg/mL

※ With Dio-UF Pack



## Configuration

Electrical Power	• 120-240v,50-60Hz,1.6A
Dimension	• W350*D430*H520mm
Operating Weight	• 22kg
Standard Accessories	• Dio-Pack I • Dio-Pack II • Final Filter, 0.2 $\mu$ m
	- • Dio-UV Lamp, 185+254nm
	- • Dio-UF Pack
	• Operation Manual • Power Cable • Tubing Kit
Optional Accessory	• USB

## Accessories

Description	Item NO.	Description	Item NO.
Dio-Pack I	21301	Dio-UV Lamp, 185+254nm	20301
Dio-Pack II	21302	Dio-UF Pack	20302
Final Filter, 0.2 $\mu$ m	20304		

# Evo-RO&ROP Water Systems

## Specification

Model		Evo-RO Dico 10	Evo-RO Dico 20	Evo-ROP Dico 10	Evo-ROP Dico 20	
Production flow rate (up to)	Type III	10L/hr	20L/hr	10L/hr	20L/hr	
	Resistivity	Type II	-	-	5-15M $\Omega$ ·cm	5-15M $\Omega$ ·cm
Quality	Conductivity	Type III	1-25 $\mu$ s/cm	1-25 $\mu$ s/cm	1-25 $\mu$ s/cm	
	TOC	Type II	-	-	<30ppb	<30ppb

## Configuration

Electrical Power	• 120-240v,50-60Hz,1.6A
Dimension	• W350*D430*H520mm
Operating Weight	• 18~19kg
Standard Accessories	• Dico-PC Pack • Dico-PO Pack(ROP Model)
	• Dico-RO Membrane • Dico-RO Membrane*2ea (Evo-RO Dico20, ROP Dico20)
	• Operation Manual • Power cable • Tubing Kit
Optional Accessory	• Reservoir20L • Reservoir35L • Reservoir60L • USB

## Accessories

Description	Item NO.	Description	Item NO.
Dico-PC Pack	21101	Dico-PO Pack	21103
Dico-RO Membrane	21102		



## Ultrapure (Type1)

### E-Duo 12 VF/VFT



**From Tap water** Type 1, 2 and 3  
**Flow rate (up to)** Type 1, 2 - 2L/min  
 Type 3 - 22L/hr

### E-Duo 13 UV/VF



**From Tap water** Type 1, 3  
**Flow rate (up to)** Type 1 - 2L/min  
 Type 3 - 22L/hr

### Evo-CB Dio 10/20/UV/VF



**From Tap water** Type 1 and 3  
**Flow rate (up to)** Type 1 - 2L/min  
 Type 3 - 10, 20L/hr

## Pure (Type2)

### Evo-ROP Dico 10/20



**From Type 2,3** Type 2, 3  
**Flow rate (up to)** Type 2 - 10,20L/hr  
 Type 3 - 10,20L/hr

### Application

- Preparation of reagents, Tissue dyeing, Buffers
- Feed water for Autoclave, Clinical analyzers, Hydrogen generator
- General laboratory tasks, Microbiological culture media
- Glassware rinsing

## High-Flow water Systems

### Excel-UP Med 7/UV



**From Type 2,3** Type 1  
**Flow rate (up to)** Type 1 - 7L/min

### Excel-Post Med 50/70/100



**From Tap water** Type 2, 3  
**Flow rate (up to)** Type 2, 3 - 50,70,100L/hr

### Excel-RO Med 50/70/100



**From Tap water** Type 3  
**Flow rate (up to)** Type 3 - 50,70,100L/hr

### Application

- Feed water of ultrapure water system
- Clinical analyzer, Semiconductor wafer rinsing
- Biochemistry analyzer

### Expe-CB Ele 10/20/UV



**From Tap water** Type1 and 3  
**Flow rate (up to)** Type 1 - 2L/min  
 Type 3 - 10,20L/hr

### Evo-UP Dio BA/UV/VF/UT



**From Tap water** Type 1, 2, 3  
**Flow rate (up to)** Type 1 - 2L/min

## Application

- AA, GFAA, ICP-MS, Chromatography, Cell culture
- Buffer manufacturing
- Molecular biology
- DNA microarray
- Electrophoresis
- HPLC, UPLC, LC-MS, GC
- PCR, DNA sequencing

## Pure (Type3)

### Evo-RO Dico 10/20



**From Tap water** Type 3  
**Flow rate (up to)** Type 3 - 10, 20L/hr

### Expe-RO Ele 10/20



**From Tap water** Type 3  
**Flow rate (up to)** Type 3 - 10, 20L/h

## Application

- Glassware rinsing, Hydroponics , Water baths
- Feed water of ultrapure water systems, Humidifiers
- Autoclaves

## Consumables

	Filters	Contains(pore size)	
<b>Pretreatment</b>	Duo-MA Pack	Depth Activated carbon filter (1um)	Removes large particles and free chlorine from tap water.(Pack includes of polyphosphaste for anti-scaling)
	Dico-PC Pack	Micro filter (1um)	
	Expe-PC Pack	Depth Activated carbon filter (1um)	Protecting the reverse osmosis (RO) membrane against mineral scaling, organic fouling and chlorine oxidation.
	Med-PC Pack		
<b>RO Membrane</b>	Duo-RO Membrane	Reverse Osmosis Membrane (MW200)	Remove a large majority of contaminants from water by pushing the water under pressure through a semi-permeable membrane.
	RO Membrane		
	RO Pack		
<b>Deionization</b>	Duo-MB Pack	Ion exchange resins	Remove trace levels of organics
	Dico-PO Pack		
	Med-Post Pack		
<b>Low TOC</b>	UV Lamp	Dual Wavelength (185/254nm)	Degrades organic contaminants by photooxidation and purifies water as it passes through the UV lamp.
<b>Ultra Pure water</b>	Duo-PI Pack	Ion exchange resins	Removes trace levels of ions from ultrapure water.
	Dio-Pack I,II	Activated Carbon	the cartridge comprises clean and high-purity materials to minimize leaching of low organics and extractable contaminants.
	Expe-CI,MI Pack		
<b>POU Filter</b>	Final filter I,II	0.22 µm	Filters for bacteria-free and particulate-free water
	UF Filter		Filters(0.01µm) for pyrogen-free water for removing of pyrogens(endotoxin), Rhase,Dnases.
	Metal Filter		Removes specific heavy metals and micro-particles.



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