

Dura Pro

Touch & Integrated
water purification system

Models:

Dura Pro 12 / 24

Dura Pro 12 / 24F

Dura Pro 12 / 24V

Dura Pro 12 / 24FV



Dura Pro series, integrating 5.0 inch touch screen system, 3 way water quality sensors, 2 way flow sensors to achieve quantified dispensing, built-in 1 buffer water tank, 3 pumps, and 2 stage RO system, its output ranges from 12 to 24 liters/hour with tap water inlet. Moreover, it equips the remote portable dispenser and 50 liters tank as standard configuration.

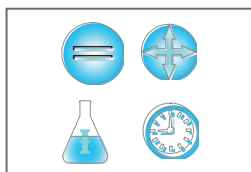
It can produce 2 kinds of pure water- deionized water and ultrapure water. And the third kind of pure water-2nd stage RO water is optional.

The 2nd stage RO water's conductivity can stay 1-5 μ s/cm. The deionized water's resistivity is above 16M Ω .cm, and the ultrapure water's resistivity absolutely reaches to 18.2M Ω .cm. It completely meets the highest grade I standard of ASTM, CAP, CLSI, EP and USP.



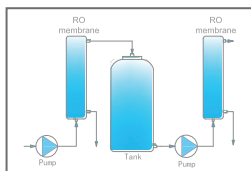
Colorful touch screen

- 5.0 inch colorful high-resolution touch screen (16:9) controlling system, achieve finger-touch new experience.



Comprehensive monitoring system

- 3 way online water quality sensors, detect the quality of feed water, RO water, deionized water, or ultrapure water respectively. And warn once water quality's standard exceeding.
- 2 way flow sensors, achieve quantified dispensing of RO water, deionized water, or ultrapure water.



Double stage reverse osmosis technology

- With 2 pumps, 2 RO membranes and buffer tank, system assures 2nd stage RO water quality's stability from different source water, and achieves little drain and low running cost.



2 pure water outlets-Deionized & Ultrapure water

- Equipping built-in mixed bed resin cartridge and ultrapure polishing resin cartridge, to achieve that the deionized water's resistivity is above 16MΩ.cm, and the ultrapure water's resistivity absolutely reaches to 18.2MΩ.cm.



Standard equipped remote portable dispenser

- 2.0 inch colorful graphics display, acrylic panel, online monitoring the resistivity, temperature, flow rate and dispensed volume of pure water, 2 dispensing models-Instant and volume dispensing, easy for single hand operation, height adjustable arm, more user-friendly as Pipette-type dispensing, system circulation function, to achieve ultrapure water's continuous circulation, suitable for all lab dispensing such as glassware or volumetric flasks etc.



Standard equipped 50 liters tank

- 100% PE material, the smooth internal surface, conical bottom, standard equipped air filter could absorb CO2 and organics, and eliminate bacteria and particles. UV lamp is optional to restrain bacteria's increase and reduce TOC.

Features and Advantages

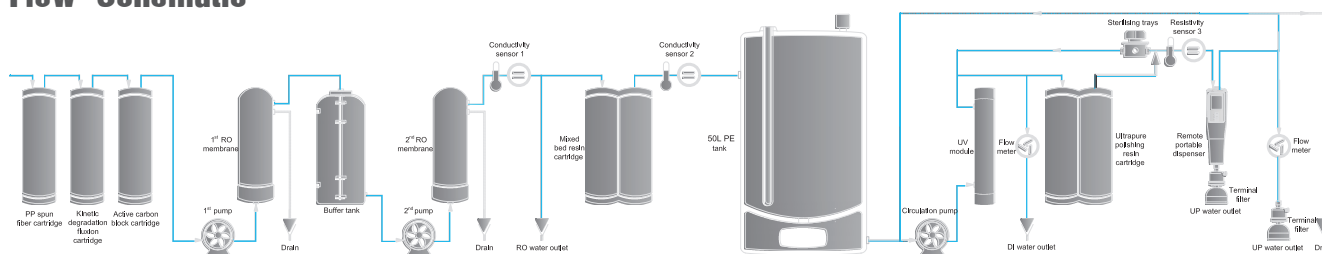
- System sanitizing procedure, achieve the disinfection of ultrapure water's tube and valve.
- System circulation function, achieve ultrapure water's circulation to keep top quality of ultrapure water.
- All Cartridges replacing alarm function, based on time, or water quality, show cartridges' used and residual life.
- Multiple alarm function: no feed water, full water, water quality's standard exceeding, and cartridge life ending.
- Auto self-flushing of RO membrane function (interval and continuous time setting), extend RO membrane's life.
- Comprehensive Information query and management function, master system status, water quality, cartridges usage and alarm information.
- System time setting (year/month/day/hour/minute), timing standby (0-60 minute), and timing shutdown (0-24 hour) function.
- Level II password, protect all the parameters setting, and prohibit any unauthorized setting change.
- Auto running data storing function with built-in SD card, and data can be exported through the USB interface.
- Whole plastic shell with high-strength, avoid rusting and keep clean, to meet GLP standard.
- 4 doors and easy-to-replacing cartridge design, convenient to maintain system and replace cartridges.
- Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality.
- Optimized pretreatment (including PP fiber, KDF and active carbon cartridge), effectively protect RO membrane.
- RO module with DOW's membrane, ensure long life, stable operation and high desalination rate.
- Ultrapure cartridge with DOW's top polishing resin, ensure ultrapure water's quality up to 18.2 MΩ.cm, with the lowest TOC level.
- Double wavelength (185&254nm) ultraviolet lamp module, restrain bacteria's increase and reduce TOC.
- MWC0 5000D ultrafiltration module, effectively eliminate endotoxin, and suitable for precise cell cultivating and IVF.
- (0.45+0.1)μm double layer PES terminal disinfection filter, assure that terminal pure water is absolutely axenic.

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Flow Schematic



Specifications

Model	Standard	Eliminating endotoxin	Low TOC	Synthesizing
	Dura Pro 12	Dura Pro 12F	Dura Pro 12V	Dura Pro 12FV
	Dura Pro 24	Dura Pro 24F	Dura Pro 24V	Dura Pro 24FV
Output (25°C)*	12 or 24 liters/hour			
Flow rate	Up to 2 liters/minute (with tank)			
Pure water outlet	2-deionized, ultrapure water			
Ultrapure water quality				
Resistivity(25°C)	18.2MΩ.cm			
TOC*	<10ppb	<10ppb	<3ppb	<3ppb
Bacteria	<0.1cfu/ml			
Particle(>0.1µm)	<1/ml			
Endotoxin	N/A	< 0.001Eu/ml	N/A	< 0.001Eu/ml
RNases	N/A	<1pg/ml	N/A	<1pg/ml
DNases	N/A	<5pg/ml	N/A	<5pg/ml
Deionized water quality				
Resistivity(25°C)	>16MΩ.cm			
RO water quality				
Conductivity - 1 st stage RO water	Feed water conductivity×5%*			
Conductivity - 2 nd stage RO water	1-5µs/cm*			
Feed water requirements	Tap water, temperature:5-45°C, pressure:1.0-4.0Kgf/cm ²			
Dimension and weight	Length×Width×Height:545×470×610mm / Weight: 30Kg			
Electrical requirements	AC200-240V, 50/60Hz			
Power	240W			
Standard configuration	Main body (Including 1 set of cartridge)+50 liters PE tank+remote portable dispenser			

Remarks:

*The value will be influenced by temperature and feed water's quality.