Dura

Integrated water purification system

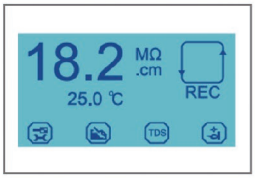
Models:

- Dura 12 / 24
- Dura 12 / 24F
- Dura 12 / 24V
- Dura 12 / 24FV
- Dura
- Dura F
- Dura V
- Dura FV

Dura series, integrating LCD controlling system, 3 way water quality sensor, built-in 2 water tanks, 3 pump, and 2 stage RO system, its output ranges from 12 to 24 liters/hour with tap water inlet. And with distilled water inlet, its output is up to 2 liters/minute.

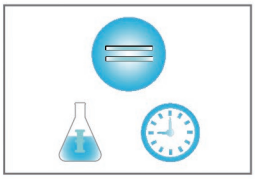
With tap water inlet, it can produce 2nd stage RO water and ultrapure water. And with distilled water inlet, it can produce deionized water and ultrapure water.

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



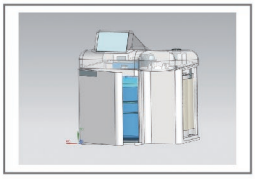
Micro-computer control system with LCD display

- LCD (resolution: 240×128, dimension: 106×57mm), intuitively display the system running state and various real-time parameters.



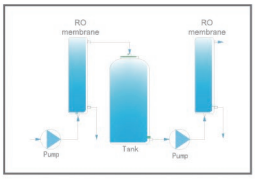
Comprehensive monitoring system

- 3 way online water quality sensor, detect the quality of feed water, 2nd stage RO water / deionized water, and ultrapure water respectively. And warn once water quality's standard exceeding.



Built-in 2 water tanks and 3 pumps

- Built-in 5.8 liters PE tank and 10 liters airtight plastic pressure water tank, save more lab space.
- Built-in 1st stage， 2nd stage RO pump and circulating sanitizing pump.

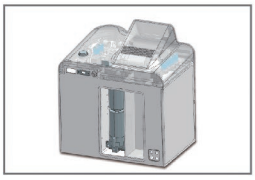


Double stage reverse osmosis technology

- 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.

Easy-to-replacing cartridge

- Integrated design of pretreatment and subsequent purification unit.
- New card hawk type fast inserted interface, easy to replace.



4 door design and easy-to-maintaining

- Convenient to maintain system and replace cartridges.

Features and Advantages

- Cartridges replacing alarm function, based on time and 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, extend RO membrane's life.
- Auto running data storing function through RS232/USB communication port to computer for 1 year at least.
- 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.
- Level II password, protect all the parameters setting, and prohibit any unauthorized setting change.
- Water dispensing function- timing and quality (time range: 1-99min, water quality range: 0.1-18.2MΩ.cm).
- External water tanks is optional to meet different need and assure ample water-supply.
- Whole plastic shell with high-strength, avoid rusting and keep clean, to meet GLP standard.
- 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 desalinization 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.
- MWCO 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.

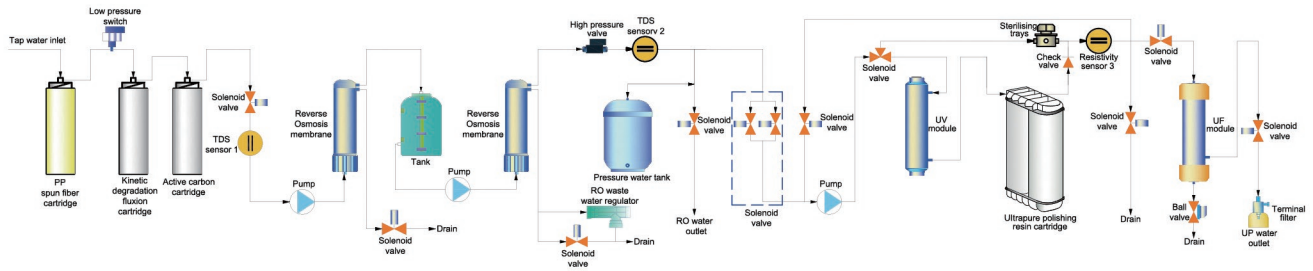
Dura 12/24 series

Ultrapure water system (tap water inlet)

With LCD controlling system, 3 way water quality sensor, built-in 2 water tanks, 3 pump, and 2 stage RO system, Dura 12/24 series is sub-top choice of ultrapure water for high grade experiments.

With tap water inlet, its output ranges from 12 to 24 liters/hour. It can produce 2nd stage RO water and ultrapure water. The 2nd stage RO water's conductivity can stay 1-5μs/cm, and the ultrapure water's resistivity absolutely reaches to 18.2MΩ.cm. It completely meets the highest grade I standard of ASTM, CAP, CLSI, EP and USP.

Flow Schematic



Specifications

Model	Standard	Eliminating endotoxin	Low TOC	Synthesizing
	Dura 12	Dura 12F	Dura 12V	Dura 12FV
	Dura 24	Dura 24F	Dura 24V	Dura 24FV
Output -2nd stage RO water*	12 or 24 liters/hour			
Output -ultrapure water	Up to 2 liters/minute (when tank is full)			
Ultrapure water quality				
Resistivity(25℃)	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
RO water quality				
Conductivity - 1st stage RO water	Feed water conductivity×5%*			
Conductivity - 2nd stage RO water	1-5μs/cm*			
Feed water requirements	Tap water, temperature:5-45℃,pressure:1.0-4.0Kgf/cm^2			
Dimension and weight	Length×Width×Height:545×470×610mm / Weight: 25Kg			
Electrical requirements	AC200-240V, 50/60Hz			
Power	240W			
Standard configuration	Main body (Including 1 set of cartridge)+built-in 12 liters pressure tank			

Remarks:

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

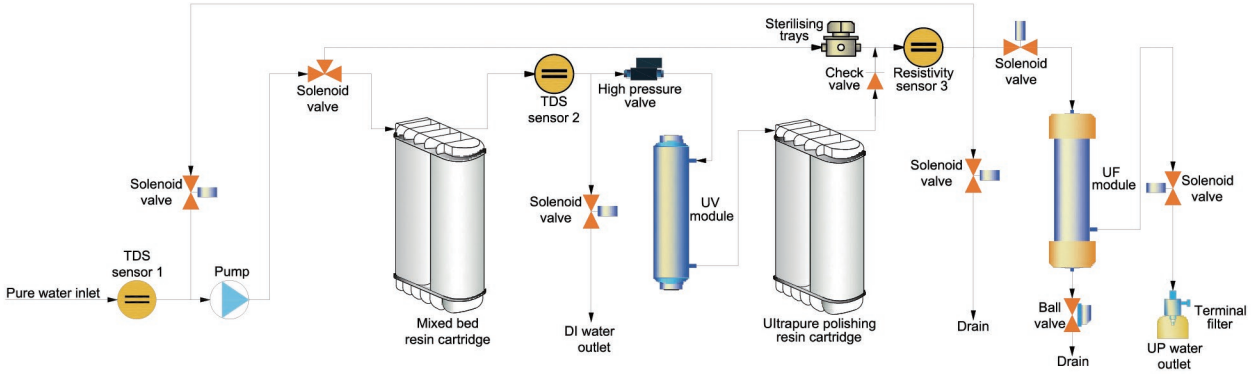
Dura series

Ultrapure water system (distilled water inlet)

With LCD controlling system, 3 way water quality sensor, Dura series is sub-top choice of ultrapure water for high grade experiments.

With pure water or distilled water inlet, its output is up to 2 liters/minute. It can produce deionized water and ultrapure water. The deionized water's resistivity is above 16MΩ.cm, and the ultrapure water's resistivity absolutely reaches to 18.2MΩ.cm. It completely meets the highest grade I standard of ASTM, CAP, CLSI, EP and USP.

Flow Schematic



Specifications

Model	Standard	Eliminating endotoxin	Low TOC	Synthesizing
	Dura	Dura F	Dura V	Dura FV
Output -ultrapure water	Up to 2 liters/minute (less output with UF cartridge)			
Ultrapure water quality				
Resistivity(25℃)	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℃)	>16MΩ.cm			
Feed water requirements	RO water, distilled water, deionized water, 5-45℃,1atm*			
Dimension and weight	Length×Width×Height:545×470×610mm / Weight: 20Kg			
Electrical requirements	AC110-240V, 50/60Hz			
Power	240W			
Standard configuration	Main body (Including 1 set of cartridge)			

Remarks:

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