

# Smart Mini

*Instantly and fresh!*



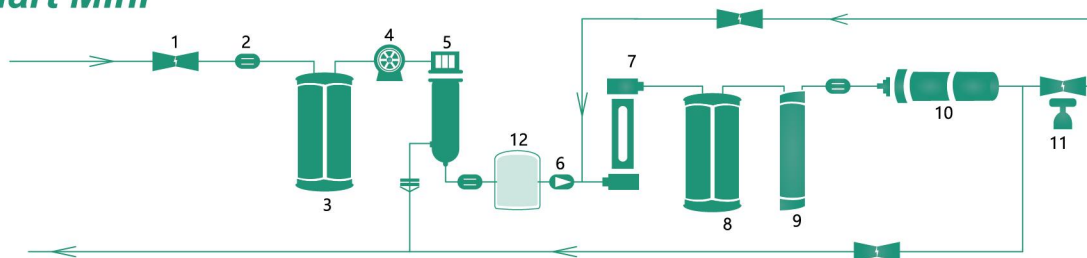
## Introduction

Many laboratories require ultrapure water every day- for HPLC or for other instrumental analyses- but only as small volumes at a time, up to a total of a few liters at the most.

However, this is no reason to do without professional, freshly-prepared ultrapure water and buy expensive HPLC water. After all, with the repeated taking of small volumes from an HPLC water container, the quality of the water and the TOC-value no longer fulfill the specifications. The ultrapure water is no longer ultrapure!

Always fresh. Always available in the volume required. Always with the required quality. And always for only a few cents per liter!

## Smart Mini



- |                        |                               |
|------------------------|-------------------------------|
| 1 Solenoid Valve       | 7 Dual Wave UV Cartridge      |
| 2 Conductivity Sensor  | 8 Purification Module         |
| 3 Pre-treatment Module | 9 Ultra-Purification Module   |
| 4 Boost Pump           | 10 Micro-Filtration Cartridge |
| 5 RO Module            | 11 Point-Of-Use Filter        |
| 6 Ball Valve           | 12 Internal Water Tank(6L)    |

## Configuration

SMART MINI system	SMART MINI
Pretreatment module	<input type="radio"/>
High pressure pump	<input type="radio"/>
Reverse osmosis	<input type="radio"/>
Dual wavelength UV-lamp	<input type="radio"/>
Ultra-purification cartridge	<input type="radio"/>
Microfiltration cartridge	<input type="radio"/>
Point-of-use filter	<input type="radio"/>
Internal Water Tank	<input type="radio"/>

Model	Smart Mini
<b>Feed Water Requirement</b>	
Source	Tap water
Conductivity*	< 2000us/cm
Hardness**	< 450ppm as CaCO <sub>3</sub>
Pressure	0.05~0.5MPa(7-72psi)
Temperature	5~40 °C
<b>Purification Water(Class III)</b>	
Ionic Rejection	> 95%
Bacteria Rejection	> 99%
Conductivity	1~20us/cm(RO-2 5us/cm)
Productivity Rate	30L/h
<b>Ultrapurification Water(Class I)</b>	
Resistivity At 25 °C	18.2MΩ.cm
Conductivity At 25 °C	0.055us/cm
TOC Level***	1~5ppb
Endotoxin(Pyrogens)	N/A
Particulate(≥0.02um)	< 1pc/ml
Bacteria***	< 0.1cfu/ml
Rnase / Dnase**	N/A

<b>Ultrapurification Water(Class I)</b>	
Manual dispense flow rate	1.2~1.5L/min
Automatic dispense volume	100~60000ml
<b>Electrical Requirements</b>	
Electrical Voltage	110V/220V±10%
Electrical Frequency	50HZ/60HZ
<b>Packing Information</b>	
<b>Net Weight</b>	
Main units	32kg
Water tank	N/A
<b>External Dimensions(W×D×H)</b>	
Main units	315×525×570mm
Water tank	N/A
<b>Shipping weight</b>	
Main units	45kg
Water tank	N/A
<b>Shipping Dimensions(W×D×H)</b>	
Main units	525×610×770mm
Water tank	N/A

\* If feed water quality is poor(Conductivity > 1000us/cm), strengthened pretreatment module and RO-2 type is highly recommended

\*\* When hardness of feed water is high(>450ppm as CaCO<sub>3</sub>), 0.5T water softener is recommended

\*\*\* Dual wave UV module need to be adopted. Also dependent on feed water, recommended feed TOC < 30ppb