

# Smart Mini *Instantly and fresh!*



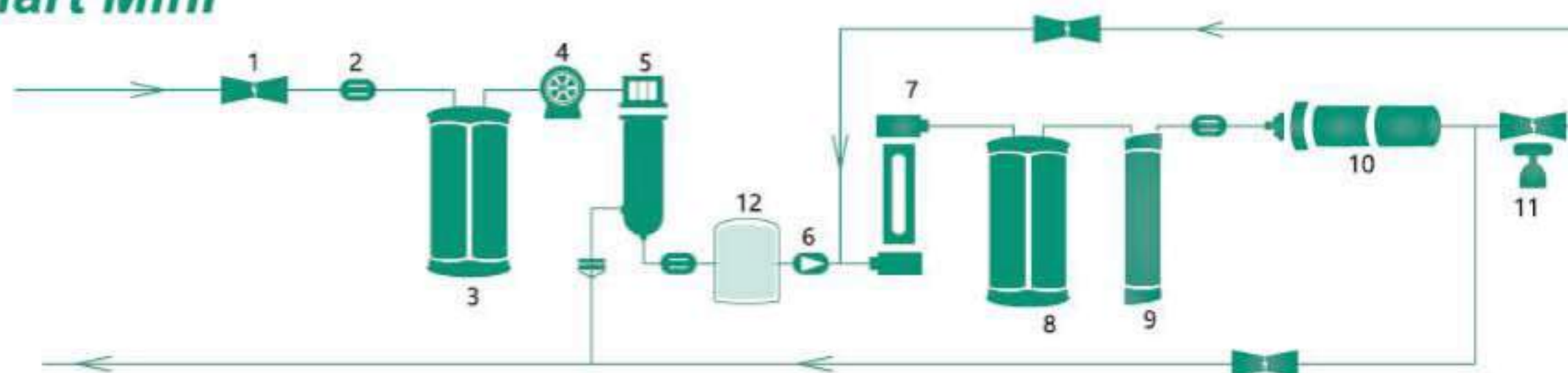
## Introduction

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/ultra Filtration Cartridge |
| 5 RO Module            | 11 Point-Of-Use Filter              |
| 6 Ball Valve           | 12 Internal Water Tank(6L)          |

## Configuration

SMART MINI system	SMART MINI UV/VF
Pretreatment module	o/o
High pressure pump	o/o
Reverse osmosis	o/o
Dual wavelength UV-lamp	o/o
Ultra-purification cartridge	o/o
Microfiltration cartridge	o/-
Ultrafiltration cartridge	-/o
Point-of-use filter	o/o
Internal Water Tank	o/o

Model	Smart Mini UV/VF
<b>Feed Water Requirement</b>	
Source	Tap water
Conductivity*	<2000us/cm
Hardness**	<450ppm as CaCO3
Pressure	0.05~0.5MPa(7-72psi)
Temperature	5~40℃
<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℃	18.2MΩ.cm
Conductivity At 25℃	0.055us/cm
TOC Level***	1~5ppb
Endotoxin(Pyrogens)	N/A / <0.001EU/ml
Particulate(≥0.02um)	<1pc/ml
Bacteria***	<0.1cfu/ml
Rnase / Dnase**	N/A / Free

<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 CaCO3), 0.5T water soften is recommended

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