

Smart P

Introduction

Ultrapure water from purified water

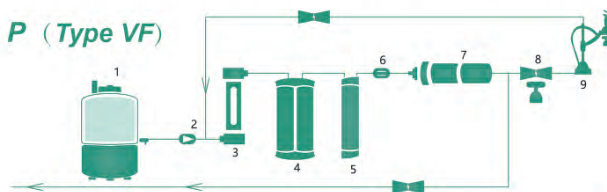
The purified water quality required as feedwater

- Tap water subjected to ion exchange, reverse osmosis or distillation
- Optimally, the purified water supplied by a Heal Force Smart E/Smart RO system

The contents of organic and inorganic substances in the feedwater are reduced to values approaching their limits by the serial combination of high-efficiency Heal Force purification technologies.



Smart P (Type VF)



- 1 Water Tank
- 2 Ball Valve
- 3 Dual Wave UV Cartridge
- 4 Purification Module
- 5 Ultra-Purification Module
- 6 Conductivity Sensor
- 7 Ultra-Filtration Cartridge
- 8 Point-Of-Use Filter
- 9 Remote Water Dispenser

Configuration

SMART-P System	SMART-PUV	SMART-PVF
Storage tank 30L	○	○
Dual wavelength UV-lamp	○	○
Ultra-purification cartridge	○	○
Microfiltration cartridge	○	○
Ultrafiltration cartridge	○	○
Point-of-use filter	○	○
Air filter net for tank	○	○
Remote water dispenser	○	○

Model	Smart PUV	Smart PVF
Feed Water Requirement		
Source	RO, Distilled, DI water (Conductivity < 20µs/cm)	RO, Distilled, DI water (Conductivity < 20µs/cm)
Temperature	5~40 °C	5~40 °C
Ultrapurification Water(Class I)		
Resistivity At 25 °C	18.2MΩ·cm	18.2MΩ·cm
Conductivity At 25 °C	0.055us/cm	0.055us/cm
Flow Rate	1.5~2.0L/min	1.5~2.0L/min
TOC Level*	1~5ppb	1~5ppb
Endotoxin(Pyrogens)**	N/A	<0.001EU/ml
Particulate(≥0.02µm)	<1pc/ml	<1pc/ml
Bacteria*	<1cfu/ml	<1cfu/ml
Rnase/Dnase**	N/A	Free
Electrical Requirements		
Electrical Voltage	110V/220V±10%	110V/220V±10%
Electrical Frequency	50Hz/60Hz	50Hz/60Hz
Packing Information		
Net Weight		
Main units	18kg	18kg
Water tank (30L)	5kg	5kg
External Dimensions(W×D×H)		
Main units	315×525×570mm	315×525×570mm
Water tank (30L)	380×380×595mm	380×380×595mm
Shipping weight		
Main units	31kg	31kg
Water tank (30L)	13kg	13kg
Shipping Dimensions(W×D×H)		
Main units	525×610×770mm	525×610×770mm
Water tank (30L)	520×440×615mm	520×440×615mm

* Dual wave UV module need to be adopted. Also dependent on feed water, recommended feed TOC < 30ppb
** Ultra-filtration module need to be adopted. Feed water need to be satisfied as above

Smart Mini

Instantly and fresh!

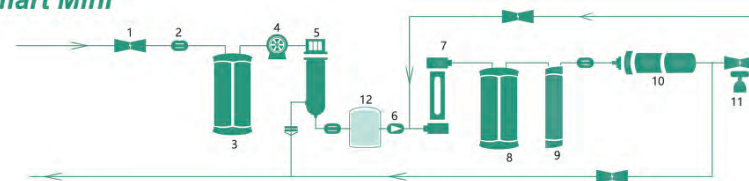
Introduction

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

Configuration

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

Model	Smart Mini
Feed Water Requirement	
Source	Tap water
Conductivity*	<400us/cm
Hardness**	<450ppm as CaCO3
Pressure	0.1~0.5MPa(14~72psi)
Temperature	5~40 °C
Purification Water(Class III)	
Ionic Rejection	>95%
Bacteria Rejection	>99%
Conductivity	<20us/cm
Productivity Rate	15L/h
Ultrapurification Water(Class I)	
Resistivity At 25 °C	18.2MΩ·cm
Conductivity At 25 °C	0.055us/cm
TOC Level***	1~5ppb
Endotoxin(Pyrogens)	N/A
Particulate(≥0.02µm)	<1pc/ml
Bacteria***	<1cfu/ml
Rnase / Dnase**	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 softener is recommended
*** Dual wave UV module need to be adopted. Also dependent on feed water, recommended feed TOC < 30ppb

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