Smart Plus N/NE

Introduction

The industry's most complete water purification solution for highly regulated applications.

When your application requires the ultimate in water purity, Smart Plus provides the perfect solution. Consistently delivering water purity of $18.2M\Omega.cm$ and underpinned by the advanced technologies, the Smart Plus enables you to focus on attaining accurate results while ensuring an uninterrupted work flow.



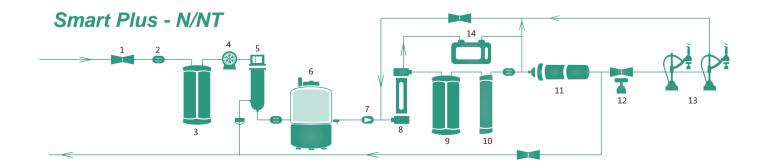
Typical Scientific Applications

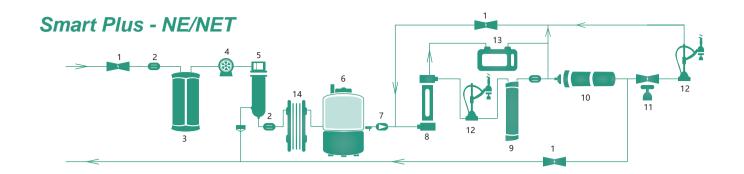
- ICP-MS(Inductively Coupled Plasma Mass Spectrometry)
- Molecular biology techniques
- Ultra trace analysis
- Electrochemistry
- Electrophoresis
- GFAAS(Graphite Furnace Atomic Absorption Spectrophotometry)

- · HPLC
- IC(Ion Chromatography)
- ICP-AES(Inductively Coupled Plasma Atomic Emission Spectrometry)
- Mammalian and bacterial cell culture
- Molecular biology
- Plant tissue culture
- Qualitative analysis

Configuration

SMART PLUS System	SMART PLUS N	SMART PLUS NT	SMART PLUS NE	SMART PLUS NET
Pretreatment module	0	0	0	0
High pressure pump	0	0	0	0
Reverse osmosis	0	0	0	0
Dual wavelength UV-lamp	0	0	0	0
Ultra-purification cartridge	0	0	0	0
Ultrafiltration cartridge	0	0	0	0
EDI Module	\	\	0	0
Point-of-use filter	0	0	0	0
Storage tank 30L	0	0	0	0
Air filter net for tank	0	0	0	0
UV-lamp sterilizer for water tank	0	0	0	0
Remote water dispenser with color display	0	0	0	0
TOC monitoring module	\	0	\	0





1 Solenoid Valve

6 Water Tank

11 Point-Of-Use Filter

2 Conductivity Sensor

7 Ball Valve

12 Remote Water Dispenser

3 Pre-treatment Module

8 Dual Wave UV Cartridge

13 TOC monitor cell*

4 Boost Pump

9 Ultra-Purification Module

14 EDI Module

525×610×770mm

520×440×615mm

5 RO Module

10 Ultra-Filtration Cartridge

*Applicable for Smart Plus NT/NET

< 0.1 cfu/ml Smart Plus - N Smart Plus - NT Model **Smart Plus - NE Smart Plus - NET** Feed Water Requirement Source Tap water Tap water Tap water Tap water Conductivity' <2000us/cm <2000us/cm <2000us/cm <2000us/cm Hardness* <450ppm as CaCO3 <450ppm as CaCO3 <450ppm as CaCO3 <450ppm as CaCO3 Pressure 0.05~0.5MPa(7-72psi) 0.05~0.5MPa(7-72psi) 0.05~0.5MPa(7-72psi) 0.05~0.5MPa(7-72psi) 5~40°C 5~40 ℃ 5~40°C 5~40°C Temperature Purification Water(Class III) >95% Ionic Rejection >95% >95% >95% Bacteria Rejection >99% >99% >99% >99% Conductivity 1~20us/cm 1~20us/cm 1~20us/cm 1~20us/cm Productivity Rate 30L/h 30L/h 30L/h 30L/h

High Quality Purification Water(Class II) Resistivity At 25°C 10MΩ.cm 10MΩ.cm TOC < 30ppb < 30ppb Dissolved Organic < 0.1ppm < 0.1ppm Productivity Rate 15L/h 15L/h Ultrapurification Water(Class I)

Resistivity At 25°C 18.2MΩ.cm 18.2MΩ.cm $18.2M\Omega.cm$ $18.2M\Omega.cm$ Conductivity At 25°C 0.055us/cm 0.055us/cm 0.055us/cm 0.055us/cm TOC Level** 1~5ppb 1~5ppb 1~5ppb 1~5ppb Endotoxin(Pyrogens)**** < 0.001EU/ml < 0.001EU/ml < 0.001EU/ml < 0.001EU/ml Particulate(≥0.02um) <1pc/ml <1pc/ml <1pc/ml <1pc/ml Bacteria*** < 0.1 cfu/ml < 0.1 cfu/ml < 0.1 cfu/ml < 0.1 cfu/ml Rnase / Dnase** Free Free Free Free 1.5~2.0L/min 1.5~2.0L/min 1.5~2.0L/min 1.5~2.0L/min Manual dispense flow rate Automatic dispense volume 100~60000ml 100~60000ml 100~60000ml 100~60000ml

Electrical Requirements 110V/220V±10% 110V/220V±10% 110V/220V±10% 110V/220V±10% Electrical Voltage **Electrical Frequency** 50HZ/60HZ 50HZ/60HZ 50HZ/60HZ 50HZ/60HZ Packing Information Net Weight 35ka 35ka 34ka 34ka Main units

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Water tank (30L)	7kg	7kg	7kg	7kg
External Dimensions(W×D×H)				
Main units	315×525×570mm	315×525×570mm	315×525×570mm	315×525×570mm
Water tank (30L)	380×380×595mm	380×380×595mm	380×380×595mm	380×380×595mm
Shipping weight				
Main units	37kg	39kg	37kg	37kg
Water tank (30L)	15kg	15kg	15kg	15kg
Shipping Dimensions(W×D×H)				

525×610×770mm

520×440×615mm

* 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 highly >450ppm as CaCO3), 0.5T water soften is recommended

525×610×770mm

520×440×615mm

Main units

Water tank (30L)

525×610×770mm

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