Water Purification System



E-Pro RO Series

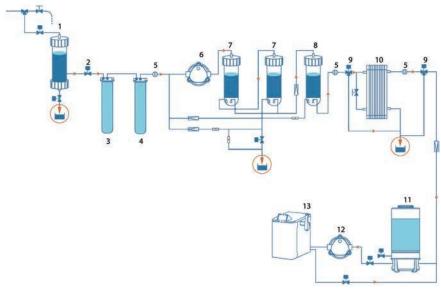
ASTM Type II high purified water system Clinical laboratory reagent water (CLSI)



Features

- · Integrated water dispenser arm
- EDI self-developed
- U-cloud platform for remote monitoring (Wifi module)
- USB access port for data logging

Water Flow Chart



- 1 Pre-treatment module
- 4 Pre-guard cartridge B
- 7 One-stage RO membrane
- 10 EDI module
- 13 Type II water dispenser arm

- 2 Solenoid valve
- 5 Conductivity electrode
- 8 Two-stage RO membrane
- 11 Water tank

- 3 Pre-guard cartridge A
- 6 Booster pump
- 9 TEE Solenoid valve
- 12 Circulating pump

Water Purification System

E-Pro UP Series

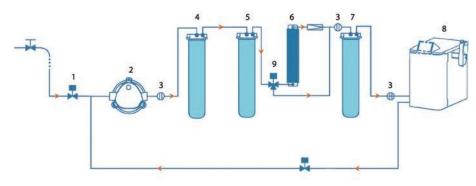
ASTM Type I Ultra purified water system



Features

- Integrated water dispenser arm
- On line real time TOC monitoring
- Dual wavelength UV-lamp 254nm & 185nm
- U-cloud platform for remote monitoring (Wifi module)
- USB access port for data logging

Water Flow Chart



- 1 Solenoid valve
- 4 Pre purification cartridge A
- 7 Ultra purification cartridge

- 2 Circulating pump
- 5 Pre purification cartridge B
- 8 Type Iwater dispenser arm

- 3 Conductivity electrode
- 6 UV lamp 185 & 254 nm
- 9 TEE Solenoid valve

Main Configurations	Type II Water	Type I Water
Maiii Coilligulations	E Pro RO10 E Pro RO15 E Pro RO20	E Pro UP 20
Pre-treatment module	YES	NO
Main host	YES	YES
Pre-guard cartridge A	YES	NO
Pre-guard cartridge B	YES	NO
Pre purification cartridge A	NO	YES
Pre purification cartridge B	NO	YES
Two-stage Reverse osmosis	YES	NO
EDI module self-developed	YES	NO
60L water tank; stepless water level sensor	YES	NO
254nm UV light of water tank	YES	NO
Inlet air filter of water tank 0.2µm	YES	NO
Water leakage protection sensor	YES	YES
Dual wavelength (254nm & 185nm)UV-lamp	NO	YES
TOC monitoring	NO	YES
Ultra purification cartridge A	NO	YES
One integrated type I water dispenser arm	YES	YES
1M water piping from main unit to water dispenser arm	YES	YES
0.22 μm end filter	YES	YES

^{*} Optional ultra purification cartridge B special for semiconductor industry that has higher deionization requirements

Water Purification System

Model	Type II Water	Type I Water
	E Pro RO 10 E Pro RO 15 E Pro RO 20	E Pro UP 20
Feed water Requirements Source	Potable tap water	Type II water/RO
Conductivity	<2000μS/cm	<100μS/cm
TOC	<2000μ3/cm	< 50ppb
Hardness*	<450ppm as CaCO ₃	0-1ppm
Pressure	0.1~0.4Mpa (7-72psi)	0.1~0.4Mpa (7-72ps
Temperature	0.1~0.4Mpa (7-72psi) 5~45°C	5~45°C
PH	4-10	7/6-8
Type II high purified water	4-10	7/0-0
Resistivity at 25°C**	15MΩ.cm; typically10-15MΩ.cm	
Conductivity at 25°C**	0.067μS/cm; typically 0.1μS/cm	-
TOC	<30ppb(µg/L)	
Particulates with size > 0.22µm***	No particles	
Endotoxin (Pyrogens)***	<0.001EU/mL	
Bacteria***	<0.01cfu/mL (<10cfu/L)	
Rnase***	<1pg/mL	N/A
Dnase***	<3pg/mL	IN/A
Proteases***	<0.15µg/mL	
RO rejection	≥99%	
EDI ion rejection	≥99%	
Production flow rate	10L/H 15L/H 20L/H 10L/H 15L/H 20L/H	
Manual control water flow rate	Maximum 2L/min, stepless control of flow rate	
Quantitative water dispense range	10mL ~ 60L	
Type I high purified water		
Resistivity at 25°C		18.2MΩ.cm
Conductivity at 25°C		0.055μS/cm
TOC		≤2ppb(µg/L)
Particulates with size > 0.22μm		No particles
Endotoxin (Pyrogens)	N/A	<0.001EU/mL
Bacteria		<0.01cfu/mL (<10cfu
Rnase/Dnase		Free
Proteases		<0.15µg/mL
Manual control water flow rate		Maximum 2L/min, stepless control of fl
Quantitative water dispense range		0.01L ~ 60L
Electrical requirement		
Electrical voltage	220V ±10%	
Electrical frequency	50Hz/60Hz	
Power	<135W	
Size Information		
Net Weight		
Pre-treatment module	8.5kg	N/A
Main host with dispenser arm	29.6kg 30.3kg 30.8kg 27.7kg 28.4kg 28.9kg	20kg
30L Water tank	9kg	
60L Water tank	10.66kg	N/A
100L Water tank	12.2kg	-
e . 181 1 000 E 00		
External Dimension (WxDxH)	270,200,500/	****
Pre-treatment module	270x280x566 (mm)	N/A
Pre-treatment module Main host	328×540×600 (mm)	328×410×600 (mm
Pre-treatment module Main host Integrated dispenser arm	328×540×600 (mm) 42×85.5×231.5 (mm)	328×410×600 (mm
Pre-treatment module Main host Integrated dispenser arm 30L Water tank	328×540×600 (mm) 42×85.5×231.5 (mm) 390x390x690 (mm)	328×410×600 (mm 42×85.5×231.5 (mm
Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank	328×540×600 (mm) 42×85.5×231.5 (mm) 390x390x690 (mm) 390x390x930 (mm)	328×410×600 (mm
Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank	328×540×600 (mm) 42×85.5×231.5 (mm) 390x390x690 (mm)	328×410×600 (mm 42×85.5×231.5 (mm
Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing Information	328×540×600 (mm) 42×85.5×231.5 (mm) 390x390x690 (mm) 390x390x930 (mm)	328×410×600 (mm 42×85.5×231.5 (mm
Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing Information Gross Weight	328×540×600 (mm) 42×85.5×231.5 (mm) 390x390x690 (mm) 390x390x930 (mm) 390x390x1235 (mm)	328×410×600 (mm 42×85.5×231.5 (mm
Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing Information Gross Weight Pre-treatment module	328×540×600 (mm) 42×85.5×231.5 (mm) 390x390x690 (mm) 390x390x930 (mm) 390x390x1235 (mm)	328×410×600 (mm 42×85.5×231.5 (mm N/A
Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing Information Gross Weight Pre-treatment module Main host with dispenser arm	328×540×600 (mm) 42×85.5×231.5 (mm) 390x390x690 (mm) 390x390x930 (mm) 390x390x1235 (mm) 9.8kg 40.4kg 41.1kg 41.6kg 39.7kg 40.4kg 40.9kg	328×410×600 (mm 42×85.5×231.5 (mm
Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing Information Gross Weight Pre-treatment module Main host with dispenser arm 30L Water tank	328×540×600 (mm) 42×85.5×231.5 (mm) 390x390x690 (mm) 390x390x930 (mm) 390x390x1235 (mm) 9.8kg 40.4kg 41.1kg 41.6kg 39.7kg 40.4kg 40.9kg 12.4kg	328×410×600 (mm 42×85.5×231.5 (mm N/A
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Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing Information Gross Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing Dimension (WxDxH) Pre-treatment module	328×540×600 (mm) 42×85.5×231.5 (mm) 390x390x690 (mm) 390x390x930 (mm) 390x390x1235 (mm) 9.8kg 40.4kg 41.1kg 41.6kg 39.7kg 40.4kg 40.9kg 12.4kg 14kg 15.6kg 350x360x670 (mm)	328×410×600 (mm 42×85.5×231.5 (mm N/A 34kg N/A
Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing Information Gross Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing Dimension (WxDxH) Pre-treatment module	328×540×600 (mm) 42×85.5×231.5 (mm) 390x390x690 (mm) 390x390x930 (mm) 390x390x1235 (mm) 9.8kg 40.4kg 41.1kg 41.6kg 39.7kg 40.4kg 40.9kg 12.4kg 14kg 15.6kg 350x360x670 (mm) 510x670x800 (mm)	328×410×600 (mm 42×85.5×231.5 (mm N/A 34kg N/A
Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing Information Gross Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing Dimension (WxDxH) Pre-treatment module	328×540×600 (mm) 42×85.5×231.5 (mm) 390x390x690 (mm) 390x390x930 (mm) 390x390x1235 (mm) 9.8kg 40.4kg 41.1kg 41.6kg 39.7kg 40.4kg 40.9kg 12.4kg 14kg 15.6kg 350x360x670 (mm) 510x670x800 (mm) 520x520x780 (mm)	328×410×600 (mm 42×85.5×231.5 (mm N/A N/A 34kg N/A 510x670x800 (mm
Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing Information Gross Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing Dimension (WxDxH) Pre-treatment module	328×540×600 (mm) 42×85.5×231.5 (mm) 390x390x690 (mm) 390x390x930 (mm) 390x390x1235 (mm) 9.8kg 40.4kg 41.1kg 41.6kg 39.7kg 40.4kg 40.9kg 12.4kg 14kg 15.6kg 350x360x670 (mm) 510x670x800 (mm)	328×410×600 (mm) 42×85.5×231.5 (mm N/A 34kg

^{*}If the tap water contains a high rate of calcium ions and magnesium ion which do not meet the requirement, please use salty box to remove part of calcium ions and magnesium ion in advance

^{**}Resistivity typically 10-15M Ω .cm at 25°C, Conductivity typically 0.1 μ S/cm, at 25°C ***Feed water quality shoud meet above requirements and purified water through the remote water dispenser with end 0.22 μ m filter