

LU Discovery series

Intelligent Integration Ultrapure Water System

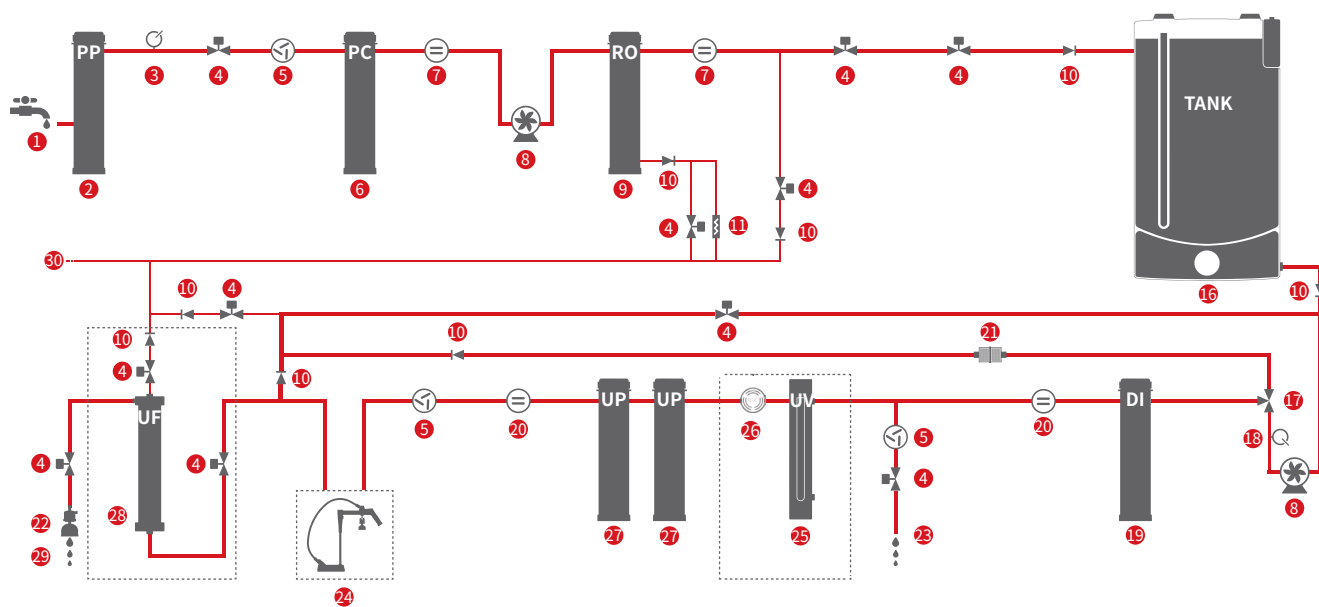
—Ultrapure water, high pure water

With tap water inlet, using the innovative intelligent human-computer interactive control system and 5-inch colorful capacitive touch screen, integrating functions of Internet of Things (IOT) and cloud platform, embedding new purification cartridges with patented structure, stable and reliable single RO system, and DI ion-exchange cartridges with larger capacity, equipping with professional-grade pure water tank with 60-liter.

System output: 20, 40, 60 liters/h. It can simultaneously produce ultrapure water (18.2MΩ.cm) and high pure water (>16MΩ.cm). The quality of pure water fully meets or exceeds the requirements of water quality standard specified by ASTM D1193-06, GB/T 11446.1-2013, GB/T 33087-2016, GB/T 6682-2008, CP, EP, USP, JP, CAP, CLSI, etc.



Flow Diagram



- ① Feed Water
- ② PP Pretreatment Cartridge
- ③ Pressure sensor
- ④ Solenoid valve
- ⑤ Flow sensor
- ⑥ PC Pretreatment Cartridge
- ⑦ Conductivity Sensor
- ⑧ Pump

- ⑨ RO cartridge
- ⑩ One way valve
- ⑪ Flow Restrictor
- ⑫ Pressure water tank
- ⑬ RO Water Outlet
- ⑭ Low tension switch
- ⑮ EDI Component
- ⑯ PE water tank

- ⑰ Three way valve
- ⑱ High tension switch
- ⑲ DI Cartridge
- ⑳ Resistivity Sensor
- ㉑ Sanitization Block
- ㉒ Final Filter
- ㉓ DI Water Outlet
- ㉔ Dispenser arm

- ㉕ UV Component
- ㉖ TOC Component
- ㉗ UP Ultrapure cartridge
- ㉘ UF Cartridge
- ㉙ UP Water Outlet
- ㉚ Drain Outlet

LU Specifications

Name	Standard	Low TOC	Eliminating endotoxin	Synthesizing
Model	LU-20/40/60	LU-20/40/60UV	LU-20/40/60UF	LU-20/40/60UVF
Production rate ^[1]	20 series: 20 L/hour, 40 series: 40 L/hour, 60 series: 60 L/hour			
Dispensing rate ^[2]	Up to 2 liters/minute	Up to 2 liters/minute	Up to 2 liters/minute	Up to 2 liters/minute
Ultrapure water quality ^[3]				
Resistivity (25°C) ^[4]	18.2 MΩ.cm	18.2 MΩ.cm	18.2 MΩ.cm	18.2 MΩ.cm
Conductivity (25°C)	0.055 μs/cm	0.055 μs/cm	0.055 μs/cm	0.055 μs/cm
TOC ^[5]	5 ppb ^[6]	2 ppb ^[7]	5 ppb ^[6]	2 ppb ^[7]
Particles ^[8]	<1 /ml (>0.2μm)	<1 /ml (>0.2μm)	<1 /ml (>0.2μm)	<1 /ml (>0.2μm)
Bacteria ^[9]	<0.01 CFU/ml	<0.01 CFU/ml	<0.01 CFU/ml	<0.01 CFU/ml
Endotoxin ^[10]	N/A	N/A	<0.001 EU/ml	<0.001 EU/ml
RNases ^[10]	N/A	N/A	1 pg/ml	1 pg/ml
DNases ^[10]	N/A	N/A	5 pg/ml	5 pg/ml
Protease ^[10]	N/A	N/A	0.15 μg/ml	0.15 μg/ml
DI water quality ^[3]				
Resistivity (25°C) ^[4]	>16 MΩ.cm	>16 MΩ.cm	>16 MΩ.cm	>16 MΩ.cm
Conductivity (25°C)	<0.063 μs/cm	<0.063 μs/cm	<0.063 μs/cm	<0.063 μs/cm
Particles ^[8]	N/A	N/A	N/A	N/A
Bacteria ^[9]	N/A	N/A	N/A	N/A
RO ^{1st} water quality ^[3]				
Ion rejection rate	98%-99% (with new RO module)	98%-99% (with new RO module)	98%-99% (with new RO module)	98%-99% (with new RO module)
Organic rejection rate	>99% (MW>300 Dalton)	>99% (MW>300 Dalton)	>99% (MW>300 Dalton)	>99% (MW>300 Dalton)
Particles and bacteria rejection rate	>99%	>99%	>99%	>99%
Feed water requirements				
Water source type	Tap water	Tap water	Tap water	Tap water
Pressure	1-6 bar	1-6 bar	1-6 bar	1-6 bar
Temperature	5-40 °C	5-40 °C	5-40 °C	5-40 °C
Conductivity	<2000 μs/cm	<2000 μs/cm	<2000 μs/cm	<2000 μs/cm
Total hardness (In CaCO ₃)	<300 ppm	<300 ppm	<300 ppm	<300 ppm
TOC	<2000 ppb	<2000 ppb	<2000 ppb	<2000 ppb
Free chlorine	<3 ppm	<3 ppm	<3 ppm	<3 ppm
PH	4-10	4-10	4-10	4-10
Dissolved CO ₂	<30 ppm	<30 ppm	<30 ppm	<30 ppm
Power supply	200-240V,50/60Hz	200-240V,50/60Hz	200-240V,50/60Hz	200-240V,50/60Hz
Total Power	20 series: 120W, 40/60 series: 240W			
Dimension (L×W×H)	Main host: 370×623×600mm Tank: 392×518×772mm	Main host: 370×623×600mm Tank: 392×518×772mm	Main host: 370×623×600mm Tank: 392×518×772mm	Main host: 370×623×600mm Tank: 392×518×772mm
weight	Main host: about 29KG Tank: about 16KG	Main host: about 29KG Tank: about 16KG	Main host: about 29KG Tank: about 16KG	Main host: about 29KG Tank: about 16KG
Standard configuration	Main host 1 set All cartridges 1 set 60-liter water tank 1 set	Main host 1 set All cartridges 1 set 60-liter water tank 1 set	Main host 1 set All cartridges 1 set 60-liter water tank 1 set	Main host 1 set All cartridges 1 set 60-liter water tank 1 set

[1] Affected by inlet water quality, pressure, temperature and status of RO membrane

[2] Affected by the tank status and terminal filter

[3] The following values are typical and may vary depending on the nature and concentration of feed water contaminants

[4] According to USP requirements, the resistivity can be displayed as a non-temperature-compensated value

[5] Affected by the type of organics

[6] Inlet TOC<1000ppb, follow professional operating procedures and correct sampling conditions

[7] Inlet TOC<50ppb, follow professional operating procedures and correct sampling conditions

[8] Equip with terminal microfilter and follow professional operating procedures and correct sampling conditions

[9] Equip with terminal microfilter and follow professional operating procedures and correct sampling conditions

[10] Equip with terminal ultrafilter and follow professional operating procedures and correct sampling conditions

LD Discovery series

Intelligent Integration Pure Water System

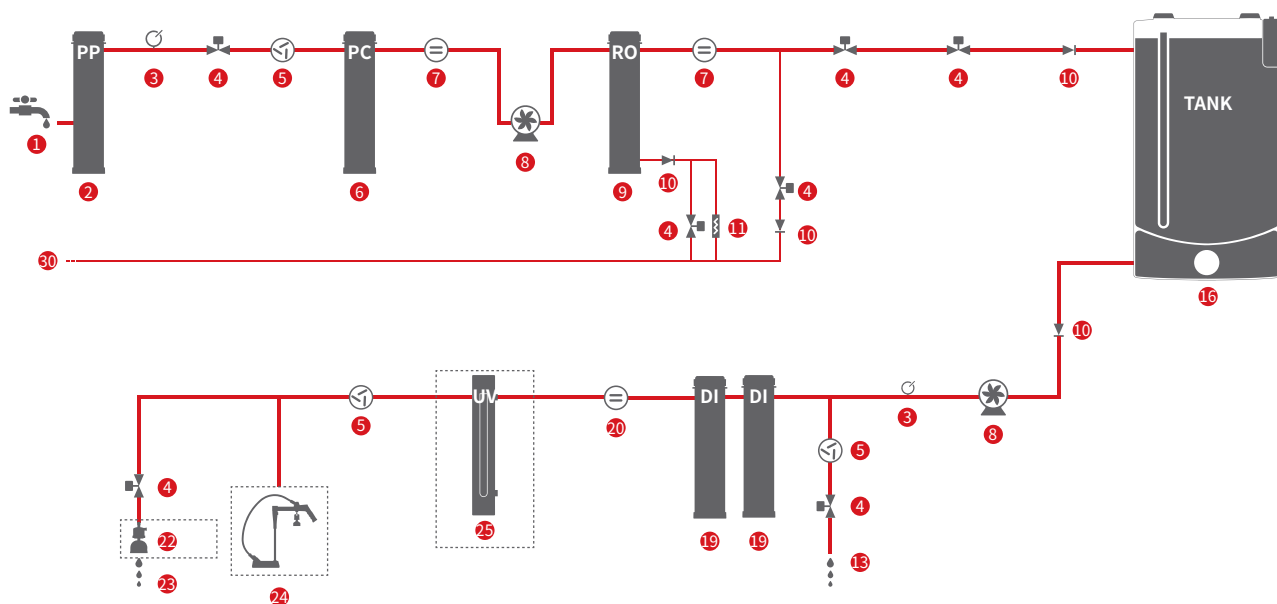
—High pure water, RO^{1st} water

With tap water inlet, using the innovative intelligent human-computer interactive control system and 5-inch colorful capacitive touch screen, integrating functions of Internet of Things (IOT) and cloud platform, embedding new purification cartridges with patented structure, stable and reliable single RO system, and DI ion-exchange cartridges with larger capacity, equipping with professional-grade pure water tank with 60-liter.

System output: 20, 40, 60 liters/h. It can simultaneously produce high pure water (>17.5MΩ.cm) and single RO water. The quality of pure water fully meets or exceeds the requirements of water quality standard specified by ISO3696 (Grade 2), GB/T 6682 (Grade 1), ASTM D1193 (Type II reagent water), JIS K0557, etc., also meets the purified water technical requirements of CP, EP, USP, JP and other national pharmacopoeia.



Flow Diagram



- | | | | |
|-----------------------------|------------------------|------------------------|---------------------------|
| 1 Feed Water | 9 RO cartridge | 17 Three way valve | 25 UV Component |
| 2 PP Pretreatment Cartridge | 10 One way valve | 18 High tension switch | 26 TOC Component |
| 3 Pressure sensor | 11 Flow Restrictor | 19 DI Cartridge | 27 UP Ultrapure cartridge |
| 4 Solenoid valve | 12 Pressure water tank | 20 Resistivity Sensor | 28 UF Cartridge |
| 5 Flow sensor | 13 RO Water Outlet | 21 Sanitization Block | 29 UP Water Outlet |
| 6 PC Pretreatment Cartridge | 14 Low tension switch | 22 Final Filter | 30 Drain Outlet |
| 7 Conductivity Sensor | 15 EDI Component | 23 DI Water Outlet | |
| 8 Pump | 16 PE water tank | 24 Dispenser arm | |

LD Specifications

Name	Standard	Eliminating bacteria and particle
Model	LD-20/40/60	LD-20/40/60UT
Production rate ^[1]	20 series: 20 L/hour, 40 series: 40 L/hour, 60 series: 60 L/hour	
Dispensing rate ^[2]	Up to 2 liters/minute	Up to 2 liters/minute
DI water quality ^[3]		
Resistivity (25°C) ^[4]	>17.5 MΩ.cm	>17.5 MΩ.cm
Conductivity (25°C)	<0.057 μs/cm	<0.057 μs/cm
Particles ^[8]	N/A	<1 /ml (>0.2μm)
Bacteria ^[9]	N/A	<0.01 CFU/ml
RO^{1st} water quality ^[3]		
Ion rejection rate	98%-99% (with new RO module)	98%-99% (with new RO module)
Organic rejection rate	>99% (MW>300 Dalton)	>99% (MW>300 Dalton)
Particles and bacteria rejection rate	>99%	>99%
Feed water requirements		
Water source type	Tap water	Tap water
Pressure	1-6 bar	1-6 bar
Temperature	5-40 °C	5-40 °C
Conductivity	<2000 μs/cm	<2000 μs/cm
Total hardness (In CaCO₃)	<300 ppm	<300 ppm
TOC	<2000 ppb	<2000 ppb
Free chlorine	<3 ppm	<3 ppm
PH	4-10	4-10
Dissolved CO₂	<30 ppm	<30 ppm
Power supply	20series:100-240V,50/60Hz; 40/60series:200-240V,50/60Hz	20series:100-240V,50/60Hz; 40/60series:200-240V,50/60Hz
Total Power	20series:120W; 40/60series:240W	20series:120W; 40/60series:240W
Dimension (L×W×H)	Host:370×623×600mm Tank:392×518×772mm	Host:370×623×600mm Tank:392×518×772mm
weight	Main host: about 27KG Tank: about 16KG	Main host: about 27KG Tank: about 16KG
Standard configuration	Main host 1 set All cartridges 1 set 60-liter water tank 1 set	Main host 1 set All cartridges 1 set 60-liter water tank 1 set

[1] Affected by inlet water quality, pressure, temperature and status of RO membrane

[2] Affected by the tank status and terminal filter

[3] The following values are typical and may vary depending on the nature and concentration of feed water contaminants

[4] According to USP requirements, the resistivity can be displayed as a non-temperature-compensated value

[5] Affected by the type of organics

[6] Inlet TOC<1000ppb, follow professional operating procedures and correct sampling conditions

[7] Inlet TOC<50ppb, follow professional operating procedures and correct sampling conditions

[8] Equip with terminal microfilter and follow professional operating procedures and correct sampling conditions

[9] Equip with terminal microfilter and follow professional operating procedures and correct sampling conditions

[10] Equip with terminal ultrafilter and follow professional operating procedures and correct sampling conditions

LUS Discovery series

Intelligent Integration Ultrapure Water System

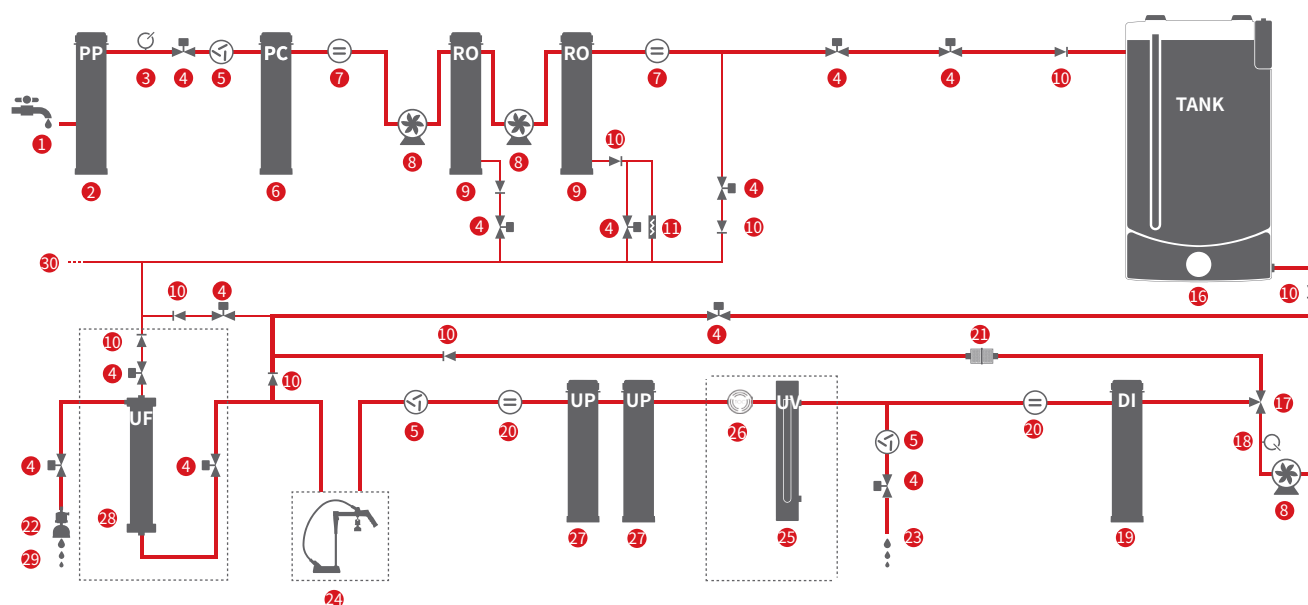
—Ultrapure water, high pure water

With tap water inlet, using the innovative intelligent human-computer interactive control system and 5-inch colorful capacitive touch screen, integrating functions of Internet of Things (IOT) and cloud platform, embedding new purification cartridges with patented structure, rigorous double RO system, and DI ion-exchange cartridges with larger capacity, equipping with professional-grade pure water tank with 60-liter.

System output: 13, 25 liters/h. It can simultaneously produce ultrapure water (18.2MΩ.cm) and high pure water (>16MΩ.cm). The quality of pure water fully meets or exceeds the requirements of water quality standard specified by ASTM D1193-06, GB/T 11446.1-2013, GB/T 33087-2016, GB/T 6682-2008, CP, EP, USP, JP, CAP, CLSI, etc.



Flow Diagram



- | | | | |
|-----------------------------|-----------------------|-----------------------|--------------------------|
| ① Feed Water | ⑨ RO cartridge | ⑬ Three way valve | ⑲ UV Component |
| ② PP Pretreatment Cartridge | ⑩ One way valve | ⑭ High tension switch | ⑳ TOC Component |
| ③ Pressure sensor | ⑪ Flow Restrictor | ⑮ DI Cartridge | ㉑ UP Ultrapure cartridge |
| ④ Solenoid valve | ⑫ Pressure water tank | ⑯ Resistivity Sensor | ㉒ UF Cartridge |
| ⑤ Flow sensor | ⑬ RO Water Outlet | ㉑ Sanitization Block | ㉓ UP Water Outlet |
| ⑥ PC Pretreatment Cartridge | ⑭ Low tension switch | ㉒ Final Filter | ㉔ Drain Outlet |
| ⑦ Conductivity Sensor | ⑮ EDI Component | ㉓ DI Water Outlet | |
| ⑧ Pump | ⑯ PE water tank | ㉔ Dispenser arm | |

LUS Specifications

Name	Standard	Low TOC	Eliminating endotoxin	Synthesizing
Model	LUS-13/25	LUS-13/25UV	LUS-13/25UF	LUS-13/25UVF
Production rate ^[1]	13 series: 13 L/hour, 25 series: 25 L/hour			
Dispensing rate ^[2]	Up to 2 liters/minute	Up to 2 liters/minute	Up to 2 liters/minute	Up to 2 liters/minute
Ultrapure water quality ^[3]				
Resistivity (25°C) ^[4]	18.2 MΩ.cm	18.2 MΩ.cm	18.2 MΩ.cm	18.2 MΩ.cm
Conductivity (25°C)	0.055 μs/cm	0.055 μs/cm	0.055 μs/cm	0.055 μs/cm
TOC ^[5]	5 ppb ^[6]	2 ppb ^[7]	5 ppb ^[6]	2 ppb ^[7]
Particles ^[8]	<1 /ml (>0.2μm)	<1 /ml (>0.2μm)	<1 /ml (>0.2μm)	<1 /ml (>0.2μm)
Bacteria ^[9]	<0.01 CFU/ml	<0.01 CFU/ml	<0.01 CFU/ml	<0.01 CFU/ml
Endotoxin ^[10]	N/A	N/A	<0.001 EU/ml	<0.001 EU/ml
RNases ^[10]	N/A	N/A	1 pg/ml	1 pg/ml
DNases ^[10]	N/A	N/A	5 pg/ml	5 pg/ml
Protease ^[10]	N/A	N/A	0.15 μg/ml	0.15 μg/ml
DI water quality ^[3]				
Resistivity (25°C) ^[4]	>16 MΩ.cm	>16 MΩ.cm	>16 MΩ.cm	>16 MΩ.cm
Conductivity (25°C)	<0.063 μs/cm	<0.063 μs/cm	<0.063 μs/cm	<0.063 μs/cm
Particles ^[8]	N/A	N/A	N/A	N/A
Bacteria ^[9]	N/A	N/A	N/A	N/A
RO ^{2nd} water quality ^[3]				
Resistivity (25°C) ^[4]	>0.2 MΩ.cm	>0.2 MΩ.cm	>0.2 MΩ.cm	>0.2 MΩ.cm
Conductivity (25°C)	<5 μs/cm	<5 μs/cm	<5 μs/cm	<5 μs/cm
Organic rejection rate	>99% (MW>300 Dalton)	>99% (MW>300 Dalton)	>99% (MW>300 Dalton)	>99% (MW>300 Dalton)
Particles and bacteria rejection rate	>99%	>99%	>99%	>99%
Feed water requirements				
Water source type	Tap water	Tap water	Tap water	Tap water
Pressure	1-6 bar	1-6 bar	1-6 bar	1-6 bar
Temperature	5-40 °C	5-40 °C	5-40 °C	5-40 °C
Conductivity	<2000 μs/cm	<2000 μs/cm	<2000 μs/cm	<2000 μs/cm
Total hardness (In CaCO ₃)	<300 ppm	<300 ppm	<300 ppm	<300 ppm
TOC	<2000 ppb	<2000 ppb	<2000 ppb	<2000 ppb
Free chlorine	<3 ppm	<3 ppm	<3 ppm	<3 ppm
PH	4-10	4-10	4-10	4-10
Dissolved CO ₂	<30 ppm	<30 ppm	<30 ppm	<30 ppm
Power supply	200-240V, 50/60Hz	200-240V, 50/60Hz	200-240V, 50/60Hz	200-240V, 50/60Hz
Total Power	240W	240W	240W	240W
Dimension (L×W×H)	Main host: 370×623×600mm Tank: 392×518×772mm	Main host: 370×623×600mm Tank: 392×518×772mm	Main host: 370×623×600mm Tank: 392×518×772mm	Main host: 370×623×600mm Tank: 392×518×772mm
weight	Main host: about 32KG Tank: about 16KG	Main host: about 32KG Tank: about 16KG	Main host: about 32KG Tank: about 16KG	Main host: about 32KG Tank: about 16KG
Standard configuration	Main host 1 set All cartridges 1 set 60-liter water tank 1 set	Main host 1 set All cartridges 1 set 60-liter water tank 1 set	Main host 1 set All cartridges 1 set 60-liter water tank 1 set	Main host 1 set All cartridges 1 set 60-liter water tank 1 set

[1] Affected by inlet water quality, pressure, temperature and status of RO membrane

[2] Affected by the tank status and terminal filter

[3] The following values are typical and may vary depending on the nature and concentration of feed water contaminants

[4] According to USP requirements, the resistivity can be displayed as a non-temperature-compensated value

[5] Affected by the type of organics

[6] Inlet TOC<1000ppb, follow professional operating procedures and correct sampling conditions

[7] Inlet TOC<50ppb, follow professional operating procedures and correct sampling conditions

[8] Equip with terminal microfilter and follow professional operating procedures and correct sampling conditions

[9] Equip with terminal microfilter and follow professional operating procedures and correct sampling conditions

[10] Equip with terminal ultrafilter and follow professional operating procedures and correct sampling conditions

LDS Discovery series

Intelligent Integration Pure Water System

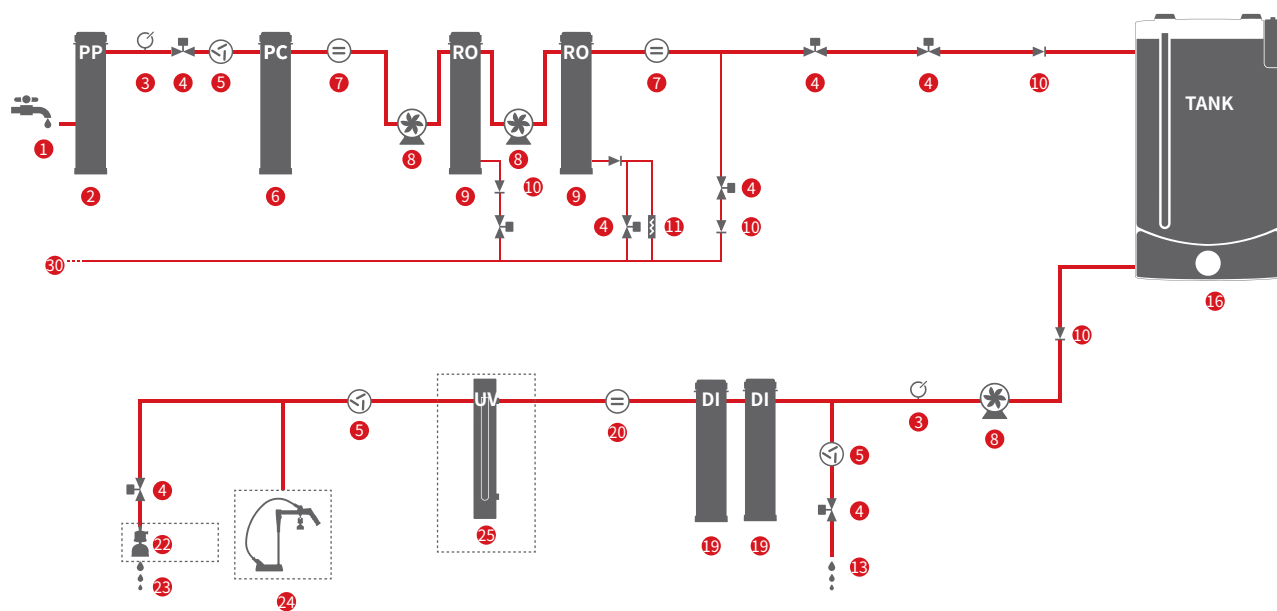
—High pure water, RO^{2nd} water

With tap water inlet, using the innovative intelligent human-computer interactive control system and 5-inch colorful capacitive touch screen, integrating functions of Internet of Things (IOT) and cloud platform, embedding new purification cartridges with patented structure, rigorous double RO system, and DI ion-exchange cartridges with larger capacity, equipping with professional-grade pure water tank with 60-liter.

System output: 13, 25 liters/h. It can simultaneously produce high pure water (>17.5MΩ.cm) and double RO water (<5μs/cm). The quality of pure water fully meets or exceeds the requirements of water quality standard specified by ISO3696 (Grade 2), GB/T 6682 (Grade 1), ASTM D1193 (Type II reagent water), JIS K0557, etc., also meets the purified water technical requirements of CP, EP, USP, JP and other national pharmacopoeia.



Flow Diagram



- | | | | |
|-----------------------------|-----------------------|-----------------------|--------------------------|
| ① Feed Water | ⑨ RO cartridge | ⑬ Three way valve | ⑲ UV Component |
| ② PP Pretreatment Cartridge | ⑩ One way valve | ⑭ High tension switch | ⑳ TOC Component |
| ③ Pressure sensor | ⑪ Flow Restrictor | ⑮ DI Cartridge | ㉑ UP Ultrapure cartridge |
| ④ Solenoid valve | ⑫ Pressure water tank | ⑯ Resistivity Sensor | ㉒ UF Cartridge |
| ⑤ Flow sensor | ⑬ RO Water Outlet | ㉐ Sanitization Block | ㉓ UP Water Outlet |
| ⑥ PC Pretreatment Cartridge | ⑭ Low tension switch | ㉑ Final Filter | ㉔ Drain Outlet |
| ⑦ Conductivity Sensor | ⑮ EDI Component | ㉒ DI Water Outlet | |
| ⑧ Pump | ⑯ PE water tank | ㉓ Dispenser arm | |

LDS Specifications

Name	Standard	Eliminating bacteria and particle
Model	LDS-13/25	LDS-13/25UT
Production rate ^[1]	13 series: 13 L/hour, 25 series: 25 L/hour	
Dispensing rate ^[2]	Up to 2 liters/minute	Up to 2 liters/minute
DI water quality ^[3]		
Resistivity (25°C) ^[4]	>17.5 MΩ.cm	>17.5 MΩ.cm
Conductivity (25°C)	<0.057 μs/cm	<0.057 μs/cm
Particles ^[8]	N/A	<1 /ml (>0.2μm)
Bacteria ^[9]	N/A	<0.01 CFU/ml
RO ^{2nd} water quality ^[3]		
Resistivity (25°C) ^[4]	>0.2 MΩ.cm	>0.2 MΩ.cm
Conductivity (25°C)	<5 μs/cm	<5 μs/cm
Organic rejection rate	>99% (MW>300 Dalton)	>99% (MW>300 Dalton)
Particles and bacteria rejection rate	>99%	>99%
Feed water requirements		
Water source type	Tap water	Tap water
Pressure	1-6 bar	1-6 bar
Temperature	5-40 °C	5-40 °C
Conductivity	<2000 μs/cm	<2000 μs/cm
Total hardness (In CaCO ₃)	<300 ppm	<300 ppm
TOC	<2000 ppb	<2000 ppb
Free chlorine	<3 ppm	<3 ppm
PH	4-10	4-10
Dissolved CO ₂	<30 ppm	<30 ppm
Power supply	200-240V, 50/60Hz	200-240V, 50/60Hz
Total Power	240W	240W
Dimension (L×W×H)	Host:370×623×600mm Tank:392×518×772mm	Host:370×623×600mm Tank:392×518×772mm
weight	Main host: about 30KG Tank: about 16KG	Main host: about 30KG Tank: about 16KG
Standard configuration	Main host 1 set All cartridges 1 set 60-liter water tank 1 set	Main host 1 set All cartridges 1 set 60-liter water tank 1 set

[1] Affected by inlet water quality, pressure, temperature and status of RO membrane

[2] Affected by the tank status and terminal filter

[3] The following values are typical and may vary depending on the nature and concentration of feed water contaminants

[4] According to USP requirements, the resistivity can be displayed as a non-temperature-compensated value

[5] Affected by the type of organics

[6] Inlet TOC<1000ppb, follow professional operating procedures and correct sampling conditions

[7] Inlet TOC<50ppb, follow professional operating procedures and correct sampling conditions

[8] Equip with terminal microfilter and follow professional operating procedures and correct sampling conditions

[9] Equip with terminal microfilter and follow professional operating procedures and correct sampling conditions

[10] Equip with terminal ultrafilter and follow professional operating procedures and correct sampling conditions

LUE Discovery series

Intelligent Integration Ultrapure Water System

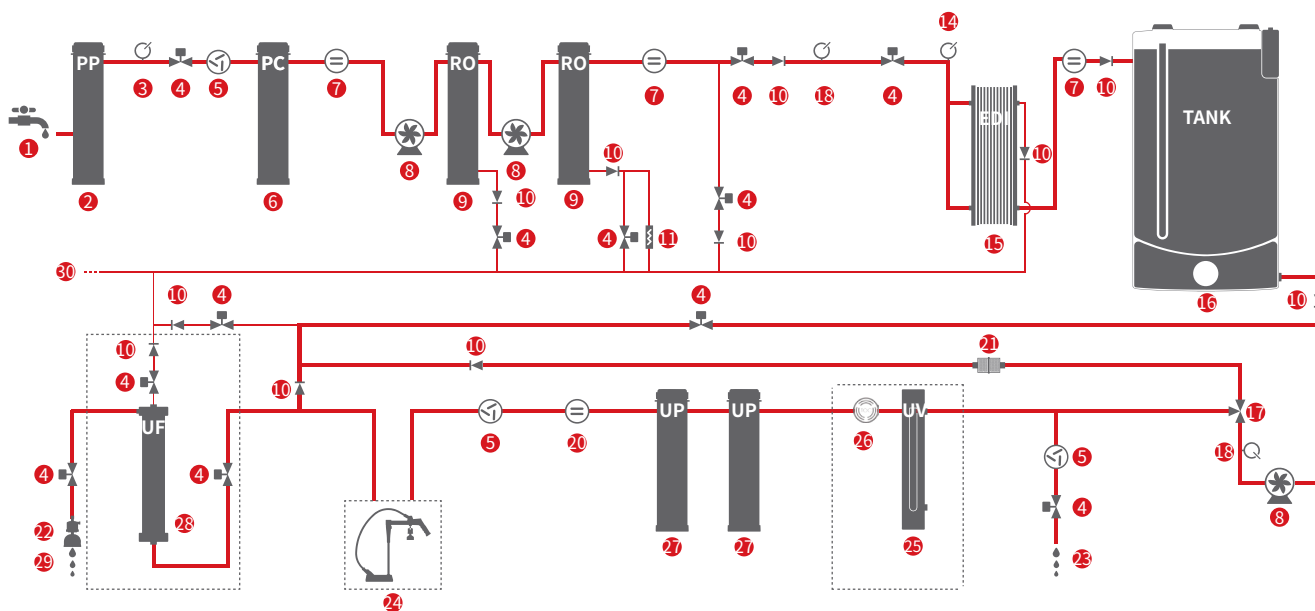
—Ultrapure water, EDI water

With tap water inlet, using the innovative intelligent human-computer interactive control system and 5-inch colorful capacitive touch screen, integrating functions of Internet of Things (IOT) and cloud platform, embedding new purification cartridges with patented structure, rigorous double RO system, advanced EDI module and DI ion-exchange cartridges with larger capacity, equipping with built-in 1.8-liter pressure water tank and professional-grade pure water tank with 60-liter.

System output: 10, 20 liters/h. Maximum output per day is up to 480 liters. It can simultaneously produce ultrapure water ($18.2\text{M}\Omega\cdot\text{cm}$) and EDI water (Resistivity $>15\text{M}\Omega\cdot\text{cm}$, $\text{TOC} < 30\text{ppb}$) with optimized running cost. The quality of pure water fully meets or exceeds the requirements of water quality standard specified by ASTM D1193-06, GB/T 11446.1-2013, GB/T 33087-2016, GB/T 6682-2008, CP, EP, USP, JP, CAP, CLSI, etc.



Flow Diagram



- 1 Feed Water
- 2 PP Pretreatment Cartridge
- 3 Pressure sensor
- 4 Solenoid valve
- 5 Flow sensor
- 6 PC Pretreatment Cartridge
- 7 Conductivity Sensor
- 8 Pump

- 9 RO cartridge
- 10 One way valve
- 11 Flow Restrictor
- 12 Pressure water tank
- 13 RO Water Outlet
- 14 Low tension switch
- 15 EDI Component
- 16 PE water tank

- 17 Three way valve
- 18 High tension switch
- 19 DI Cartridge
- 20 Resistivity Sensor
- 21 Sanitization Block
- 22 Final Filter
- 23 DI Water Outlet
- 24 Dispenser arm

- 25 UV Component
- 26 TOC Component
- 27 UP Ultrapure cartridge
- 28 UF Cartridge
- 29 UP Water Outlet
- 30 Drain Outlet

LUE Specifications

Name	Standard	Low TOC	Eliminating endotoxin	Synthesizing
Model	LUE-10/20	LUE-10/20UV	LUE-10/20UF	LUE-10/20UVF
Production rate ^[1]	10 series: 10 L/hour, 20 series: 20 L/hour			
Dispensing rate ^[2]	Up to 2 liters/minute	Up to 2 liters/minute	Up to 2 liters/minute	Up to 2 liters/minute
Ultrapure water quality ^[3]				
Resistivity (25°C) ^[4]	18.2 MΩ.cm	18.2 MΩ.cm	18.2 MΩ.cm	18.2 MΩ.cm
Conductivity (25°C)	0.055 μs/cm	0.055 μs/cm	0.055 μs/cm	0.055 μs/cm
TOC ^[5]	5 ppb ^[6]	2 ppb ^[7]	5 ppb ^[6]	2 ppb ^[7]
Particles ^[8]	<1 /ml (>0.2μm)	<1 /ml (>0.2μm)	<1 /ml (>0.2μm)	<1 /ml (>0.2μm)
Bacteria ^[9]	<0.01 CFU/ml	<0.01 CFU/ml	<0.01 CFU/ml	<0.01 CFU/ml
Endotoxin ^[10]	N/A	N/A	<0.001 EU/ml	<0.001 EU/ml
RNases ^[10]	N/A	N/A	1 pg/ml	1 pg/ml
DNases ^[10]	N/A	N/A	5 pg/ml	5 pg/ml
Protease ^[10]	N/A	N/A	0.15 μg/ml	0.15 μg/ml
EDI water quality ^[3]				
Resistivity (25°C) ^[4]	>15 MΩ.cm	>15 MΩ.cm	>15 MΩ.cm	>15 MΩ.cm
Conductivity (25°C)	<0.067 μs/cm	<0.067 μs/cm	<0.067 μs/cm	<0.067 μs/cm
TOC ^[5]	≤ 30 ppb	≤ 30 ppb	≤ 30 ppb	≤ 30 ppb
Particles ^[8]	N/A	N/A	N/A	N/A
Bacteria ^[9]	N/A	N/A	N/A	N/A
RO ^{2nd} water quality ^[3]				
Resistivity (25°C) ^[4]	>0.2 MΩ.cm	>0.2 MΩ.cm	>0.2 MΩ.cm	>0.2 MΩ.cm
Conductivity (25°C)	<5 μs/cm	<5 μs/cm	<5 μs/cm	<5 μs/cm
Organic rejection rate	>99% (MW>300 Dalton)	>99% (MW>300 Dalton)	>99% (MW>300 Dalton)	>99% (MW>300 Dalton)
Particles and bacteria rejection rate	>99%	>99%	>99%	>99%
Feed water requirements				
Water source type	Tap water	Tap water	Tap water	Tap water
Pressure	1-6 bar	1-6 bar	1-6 bar	1-6 bar
Temperature	5-40 °C	5-40 °C	5-40 °C	5-40 °C
Conductivity	<2000 μs/cm	<2000 μs/cm	<2000 μs/cm	<2000 μs/cm
Total hardness (In CaCO ₃)	<300 ppm	<300 ppm	<300 ppm	<300 ppm
TOC	<2000 ppb	<2000 ppb	<2000 ppb	<2000 ppb
Free chlorine	<3 ppm	<3 ppm	<3 ppm	<3 ppm
PH	4-10	4-10	4-10	4-10
Dissolved CO ₂	<30 ppm	<30 ppm	<30 ppm	<30 ppm
Power supply	200-240V, 50/60Hz	200-240V, 50/60Hz	200-240V, 50/60Hz	200-240V, 50/60Hz
Total Power	240W	240W	240W	240W
Dimension (L×W×H)	Main host: 370×623×600mm Tank: 392×518×772mm	Main host: 370×623×600mm Tank: 392×518×772mm	Main host: 370×623×600mm Tank: 392×518×772mm	Main host: 370×623×600mm Tank: 392×518×772mm
weight	Main host: about 33KG Tank: about 16KG	Main host: about 33KG Tank: about 16KG	Main host: about 33KG Tank: about 16KG	Main host: about 33KG Tank: about 16KG
Standard configuration	Main host 1 set All cartridges 1 set 60-liter water tank 1 set	Main host 1 set All cartridges 1 set 60-liter water tank 1 set	Main host 1 set All cartridges 1 set 60-liter water tank 1 set	Main host 1 set All cartridges 1 set 60-liter water tank 1 set

[1] Affected by inlet water quality, pressure, temperature and status of RO membrane

[2] Affected by the tank status and terminal filter

[3] The following values are typical and may vary depending on the nature and concentration of feed water contaminants

[4] According to USP requirements, the resistivity can be displayed as a non-temperature-compensated value

[5] Affected by the type of organics

[6] Inlet TOC<1000ppb, follow professional operating procedures and correct sampling conditions

[7] Inlet TOC<50ppb, follow professional operating procedures and correct sampling conditions

[8] Equip with terminal microfilter and follow professional operating procedures and correct sampling conditions

[9] Equip with terminal microfilter and follow professional operating procedures and correct sampling conditions

[10] Equip with terminal ultrafilter and follow professional operating procedures and correct sampling conditions

LDE Discovery series

Intelligent Integration Pure Water System

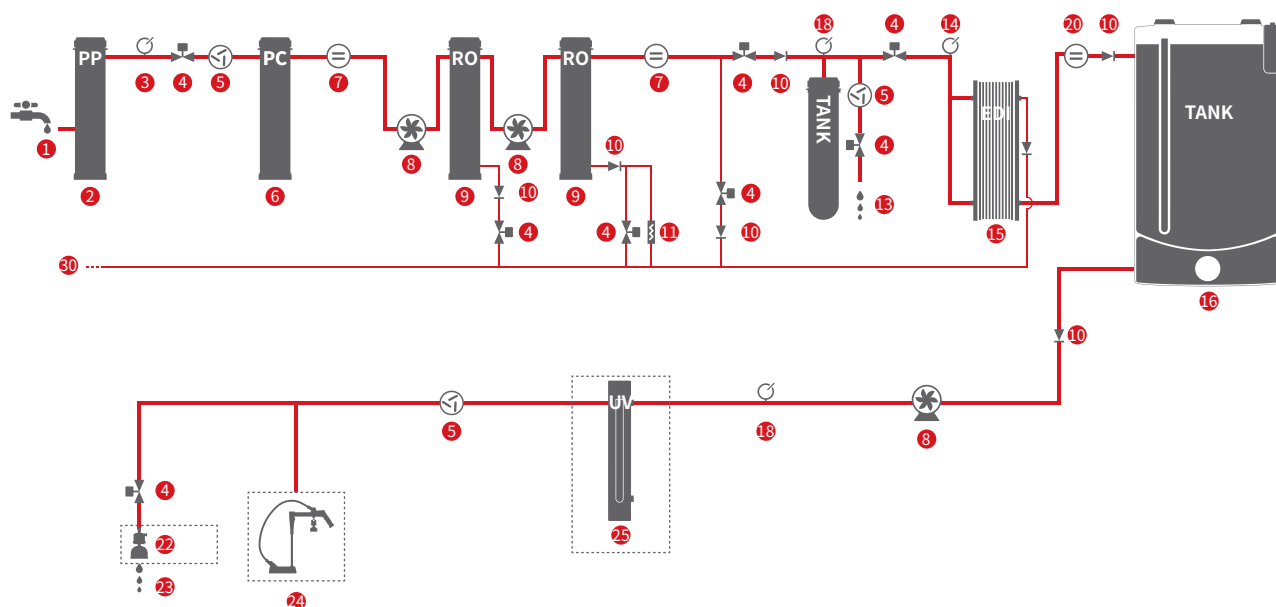
—EDI water, ,RO^{2nd} water

With tap water inlet, using the innovative intelligent human-computer interactive control system and 5-inch colorful capacitive touch screen, integrating functions of Internet of Things (IOT) and cloud platform, embedding new purification cartridges with patented structure, rigorous double RO system, and advanced EDI module, equipping with built-in 1.8-liter pressure water tank and professional-grade pure water tank with 60-liter.

System output: 10, 20 liters/h. Maximum output per day is up to 480 liters. It can simultaneously produce double RO water (<5μs/cm) and EDI water (Resistivity>15MΩ.cm, TOC<30ppb) with optimized running cost. The quality of pure water fully meets or exceeds the requirements of water quality standard specified by ISO3696 (Grade 2), GB/T 6682 (Grade 1), ASTM D1193 (Type II reagent water), JIS K0557, etc., also meets the purified water technical requirements of CP, EP, USP, JP and other national pharmacopoeia.



Flow Diagram



- | | | | |
|-----------------------------|-----------------------|-----------------------|--------------------------|
| ① Feed Water | ⑨ RO cartridge | ⑬ Three way valve | ⑮ UV Component |
| ② PP Pretreatment Cartridge | ⑩ One way valve | ⑭ High tension switch | ⑯ TOC Component |
| ③ Pressure sensor | ⑪ Flow Restrictor | ⑮ DI Cartridge | ⑰ UP Ultrapure cartridge |
| ④ Solenoid valve | ⑫ Pressure water tank | ⑯ Resistivity Sensor | ⑱ UF Cartridge |
| ⑤ Flow sensor | ⑬ RO Water Outlet | ⑰ Sanitization Block | ⑲ UP Water Outlet |
| ⑥ PC Pretreatment Cartridge | ⑭ Low tension switch | ⑲ Final Filter | ⑳ Drain Outlet |
| ⑦ Conductivity Sensor | ⑮ EDI Component | ⑲ DI Water Outlet | |
| ⑧ Pump | ⑰ PE water tank | ⑲ Dispenser arm | |

LDE Specifications

Name	Standard	Eliminating bacteria and particle
Model	LDE-10/20	LDE-10/20UT
Production rate ^[1]	10 series: 10 L/hour, 20 series: 20 L/hour	
Dispensing rate ^[2]	Up to 2 liters/minute	Up to 2 liters/minute
EDI water quality ^[3]		
Resistivity (25°C) ^[4]	>15 MΩ.cm	>15 MΩ.cm
Conductivity (25°C)	<0.067 μs/cm	<0.067 μs/cm
TOC ^[5]	≤ 30 ppb	≤ 30 ppb
Particles ^[8]	N/A	<1 /ml (>0.2μm)
Bacteria ^[9]	N/A	<0.01 CFU/ml
RO ^{2nd} water quality ^[3]		
Resistivity (25°C) ^[4]	>0.2 MΩ.cm	>0.2 MΩ.cm
Conductivity (25°C)	<5 μs/cm	<5 μs/cm
Organic rejection rate	>99% (MW>300 Dalton)	>99% (MW>300 Dalton)
Particles and bacteria rejection rate	>99%	>99%
Feed water requirements		
Water source type	Tap water	Tap water
Pressure	1-6 bar	1-6 bar
Temperature	5-40 °C	5-40 °C
Conductivity	<2000 μs/cm	<2000 μs/cm
Total hardness (In CaCO ₃)	<300 ppm	<300 ppm
TOC	<2000 ppb	<2000 ppb
Free chlorine	<3 ppm	<3 ppm
PH	4-10	4-10
Dissolved CO ₂	<30 ppm	<30 ppm
Power supply	200-240V, 50/60Hz	200-240V, 50/60Hz
Total Power	240W	240W
Dimension (L×W×H)	Host:370×623×600mm Tank:392×518×772mm	Host:370×623×600mm Tank:392×518×772mm
weight	Main host: about 31KG Tank: about 16KG	Main host: about 31KG Tank: about 16KG
Standard configuration	Main host 1 set All cartridges 1 set 60-liter water tank 1 set	Main host 1 set All cartridges 1 set 60-liter water tank 1 set

[1] Affected by inlet water quality, pressure, temperature and status of RO membrane

[2] Affected by the tank status and terminal filter

[3] The following values are typical and may vary depending on the nature and concentration of feed water contaminants

[4] According to USP requirements, the resistivity can be displayed as a non-temperature-compensated value

[5] Affected by the type of organics

[6] Inlet TOC<1000ppb, follow professional operating procedures and correct sampling conditions

[7] Inlet TOC<50ppb, follow professional operating procedures and correct sampling conditions

[8] Equip with terminal microfilter and follow professional operating procedures and correct sampling conditions

[9] Equip with terminal microfilter and follow professional operating procedures and correct sampling conditions

[10] Equip with terminal ultrafilter and follow professional operating procedures and correct sampling conditions

Hyperpurex® lab water system

Bring you products and services beyond expected

ISO
3696
US Pharmacopoeia
GB/T 33087 2016
Japan Pharmacopoeia
ISO9001
CLSI GB/T.11446 1-2013
ASTM D 5196 **ISO14001**
China Pharmacopoeia ASTM
GB/T 6682-2008 JIS K 0557
Eu Pharmacopoeia D1193
CE Quality Standard
HyperpureX®

PRODUCT

- Under management system of ISO9001 and ISO14001, in accordance with CE quality standards, we carry out product design, research & development and manufacturing to ensure long-term stability and reliability of quality.
- To help you meet industry specifications, we can assist in providing certificates of conformity, calibration certificates, quality certificates, performance reports, water quality compliance certificates and other supporting documents upon request.
- Hyperpurex® L Discovery series - lab water system can produce pure water/ultrapure water to meet the requirements of the following organizations:
- Chinese Pharmacopoeia-CP, United States Pharmacopoeia-USP, European Pharmacopoeia-EP, Japanese Pharmacopoeia-JP, GB/T 33087-2016, GB/T 6682-2008, GB/T 11446.1-2013, ASTM D1193, ASTM D 5196, ISO 3696, CLSI, JIS K 0557.

SERVICE

We wholeheartedly serve, only for your full satisfaction.

With customer satisfaction as the service goal, to continue to create value for customers as the direction, to grow together with customers as the concept, based on professionalism, we are full of sincerity and enthusiasm, committing to providing customers with professional and perfect technical support and after-sales service. So that you can devote all your energy to focus on the work.

Our service include:

- 36 months product warranty (excluding filter consumables)
- On-site professional training of installation, use and maintenance.
- Regular engineer return visit service
- Free continuous optimization and upgrading service of product life cycle.
- Professional and rigorous 3Q(IQ/OQ/PQ) verification documentation and verification services in both English and Chinese, to help you meet compliance requirements of GLP, GMP and cGMP.

Ordering Information

Host	Item No	Product description
	LU-20	Intelligent integration ultrapure water system,20L/h, Standard, Ultrapure water, high pure water
	LU-40	Intelligent integration ultrapure water system,40L/h, Standard, Ultrapure water, high pure water
	LU-60	Intelligent integration ultrapure water system,60L/h, Standard, Ultrapure water, high pure water
	LU-20UV	Intelligent integration ultrapure water system,20L/h, Low TOC, Ultrapure water, high pure water
	LU-40UV	Intelligent integration ultrapure water system,40L/h, Low TOC, Ultrapure water, high pure water
	LU-60UV	Intelligent integration ultrapure water system,60L/h, Low TOC, Ultrapure water, high pure water
	LU-20UF	Intelligent integration ultrapure water system,20L/h, Eliminating endotoxin, Ultrapure water, high pure water
	LU-40UF	Intelligent integration ultrapure water system,40L/h, Eliminating endotoxin, Ultrapure water, high pure water
	LU-60UF	Intelligent integration ultrapure water system,60L/h, Eliminating endotoxin, Ultrapure water, high pure water
	LU-20UVF	Intelligent integration ultrapure water system,20L/h, Synthesizing, Ultrapure water, high pure water
	LU-40UVF	Intelligent integration ultrapure water system,40L/h, Synthesizing, Ultrapure water, high pure water
	LU-60UVF	Intelligent integration ultrapure water system,60L/h, Synthesizing, Ultrapure water, high pure water
	LD-20	Intelligent integration pure water system,20L/h, Standard, High pure water, RO ^{1st} water
	LD-40	Intelligent integration pure water system,40L/h, Standard, High pure water, RO ^{1st} water
	LD-60	Intelligent integration pure water system,60L/h, Standard, High pure water, RO ^{1st} water
	LD-20UT	Intelligent integration pure water system,20L/h, Eliminating bacteria and particle, High pure water, RO ^{1st} water
	LD-40UT	Intelligent integration pure water system,40L/h, Eliminating bacteria and particle, High pure water, RO ^{1st} water
	LD-60UT	Intelligent integration pure water system,60L/h, Eliminating bacteria and particle, High pure water, RO ^{1st} water
	LUS-13	Intelligent integration ultrapure water system,13L/h, Standard, Ultrapure water, high pure water
	LUS-25	Intelligent integration ultrapure water system,25L/h, Standard, Ultrapure water, high pure water
	LUS-13UV	Intelligent integration ultrapure water system,13L/h, Low TOC, Ultrapure water, high pure water
	LUS-25UV	Intelligent integration ultrapure water system,25L/h, Low TOC, Ultrapure water, high pure water
	LUS-13UF	Intelligent integration ultrapure water system,13L/h, Eliminating endotoxin, Ultrapure water, high pure water
	LUS-25UF	Intelligent integration ultrapure water system,25L/h, Eliminating endotoxin, Ultrapure water, high pure water
	LUS-13UVF	Intelligent integration ultrapure water system,13L/h, Synthesizing, Ultrapure water, high pure water
	LUS-25UVF	Intelligent integration ultrapure water system,25L/h, Synthesizing, Ultrapure water, high pure water
	LDS-13	Intelligent integration pure water system,13L/h, Standard, High pure water, RO ^{2nd} water
	LDS-25	Intelligent integration pure water system,25L/h, Standard, High pure water, RO ^{2nd} water
	LDS-13UT	Intelligent integration pure water system,13L/h, Eliminating bacteria and particle, High pure water, RO ^{2nd} water
	LDS-25UT	Intelligent integration pure water system,25L/h, Eliminating bacteria and particle, High pure water, RO ^{2nd} water
	LUE-10	Intelligent integration ultrapure water system,10L/h, Standard, Ultrapure water, EDI water
	LUE-20	Intelligent integration ultrapure water system,20L/h, Standard, Ultrapure water, EDI water
	LUE-10UV	Intelligent integration ultrapure water system,10L/h, Low TOC, Ultrapure water, EDI water
	LUE-20UV	Intelligent integration ultrapure water system,20L/h, Low TOC, Ultrapure water, EDI water
	LUE-10UF	Intelligent integration ultrapure water system,10L/h, Eliminating endotoxin, Ultrapure water, EDI water
	LUE-20UF	Intelligent integration ultrapure water system,20L/h, Eliminating endotoxin, Ultrapure water, EDI water
	LUE-10UVF	Intelligent integration ultrapure water system,10L/h, Synthesizing, Ultrapure water, EDI water
	LUE-20UVF	Intelligent integration ultrapure water system,20L/h, Synthesizing, Ultrapure water, EDI water
	LDE-10	Intelligent integration pure water system,10L/h, Standard, EDI water, RO ^{2nd} water
	LDE-20	Intelligent integration pure water system,20L/h, Standard, EDI water, RO ^{2nd} water
	LDE-10UT	Intelligent integration pure water system,10L/h, Eliminating bacteria and particle, EDI water, RO ^{2nd} water
	LDE-20UT	Intelligent integration pure water system,10L/h, Eliminating bacteria and particle, EDI water, RO ^{2nd} water

Ordering Information

Cartridge	Item No	Product description			
	HPC101	Pretreatment cartridge A			
	HPC102	Pretreatment cartridge B			
	HPC302	RO ^{1st} module S2			
	HPC304	RO ^{1st} module S4			
	HPC306	RO ^{1st} module S6			
	HPC303	RO ^{1st} module F3			
	HPC305	RO ^{1st} module F5			
	HPC403	RO ^{2nd} module D3			
	HPC405	RO ^{2nd} module D5			
	HPC501	DI cartridge			
	HPC601	UP cartridge, standard			
	HPC602	UP cartridge, Low TOC			
	HPC700	Air filter for tank			
	HPC703	185&254nm double wavelength UV lamp			
	HPC702	254nm UV lamp			
	HPC709	UF ultrafiltration module			
	HPC801	TF terminal microfilter			
	HPC802	TF terminal microfilter			
	HPC810	UF terminal ultrafilter			
Accessory	Item No	Product description		Item No	Product description
	TANK1061	60-liter PE pure water tank, equipped with air filter and independent level control module with LCD display		PWA7010	Pretreatment filter for source water
	TANK1060	60-liter PE pure water tank, equipped with air filter		PWA7011	PP cartridge for pretreatment filter (5 μm,10 inch)
	TANK1121	120-liter PE pure water tank, equipped with air filter and independent level control module with LCD display		PWA7012	RS cartridge for pretreatment filter (10 inch)
	TANK1120	120-liter PE pure water tank, equipped with air filter		PWA7501	Foot switch
	DISP2000	HiDis dispenser arm, equipped with 2M connection kit		PWA7502	External leak sensor
	PWA7200	Automatic water softener (salt required)		PWA1301	Wall-mounted mounting bracket for XLE
Service	Item No	Product description			
	HPS51001	1 year extended warranty service (except for consumables)			
	HPS51003	3 year extended warranty service (except for consumables)			
	HPS52001	Verification documents in English			
	HPS53001	Basic verification service			
	HPS59001*	1-year, one-price all-inclusive maintenance agreement, including regular consumables replacement, maintenance and calibration			
	HPS59003*	3-year, one-price all-inclusive maintenance agreement, including regular consumables replacement, maintenance and calibration			

*On the basis of mutual confirmation of pure water consumption and feed water quality.



WeChat

For more product details, please login: www.hyperpurex.cn
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