



Proseers



Quality Laboratory Water Solution



QINGDAO INNOVA BIO-MEDITECH CO., LTD



—Nova-Smart



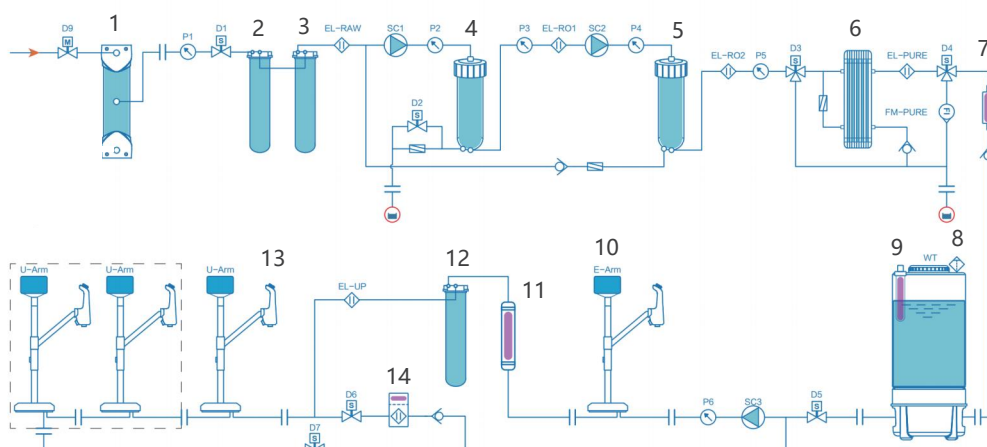
Nova EU10 / Nova EU15 / Nova EU20

Unique features

All-in-one system

- ◎ All-in-one system for ASTM Type I & Type II water/Clinical laboratory reagent water (CLSI)
- ◎ Real on-line TOC analyzer with 185nm UV-lamp inside
- ◎ EDI module imported
- ◎ Dual wavelength UV lamp 254nm & 185nm, Pure water mercury-free UV lamp 265nm
- ◎ Two (Type I & Type II) remote water dispenser arms with touch screen display
- ◎ U-cloud platform for remote monitoring (Wifi module)
- ◎ USB access port for data logging
- ◎ UV lamp can be customized to all mercury free with extra charge

Water Flow Chart



1. Pre-treatment module
2. Pre-guard cartridge A
3. Pre-guard cartridge B
4. First stage RO membrane
5. Second stage RO membrane

6. EDI module
7. Mercury-free UV lamp 265nm
8. Water tank air filter
9. Water tank UV lamp 254nm
10. Type II water dispenser arm

11. UV lamp 185 & 254 nm
12. Ultra purification cartridge
13. Type I water dispenser arm
14. On-line TOC analyzer



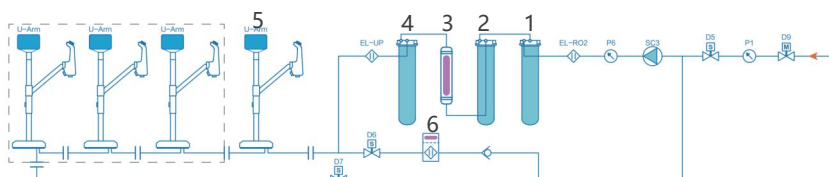
Nova U

Unique features

- ASTM Type I Ultra purified water system
- Real on-line TOC analyzer with 185nm UV-lamp inside
- Dual wavelength UV-lamp 254nm & 185nm
- One Type I remote water dispenser arm with touch screen display
- U-cloud platform for remote monitoring (Wifi module)
- USB access port for data logging
- UV lamp can be customized to all mercury free with extra charge

ASTM Type I Ultra purified water system

Water Flow Chart



1. Pre purification cartridge A
2. Pre purification cartridge B
3. UV lamp 185 & 254 nm
4. Ultra purification cartridge
5. Type I water dispenser arm
6. On-line TOC analyzer

Main configurations	All-in-one system			Type II water			Type I water
	Nova EU10	Nova EU15	Nova EU20	Nova E10	Nova E15	Nova E20	Nova U
Pre-treatment module	YES			YES			NO
Main host	YES			YES			YES
Pre-guard cartridge A	YES			YES			NO
Pre-guard cartridge B	YES			YES			NO
Ultra purification cartridge B*	YES			NO			YES
Two-stage Reverse osmosis	YES			YES			NO
EDI module imported	YES			YES			NO
Pre purification cartridge A	NO			NO			YES
Pre purification cartridge B	NO			NO			YES
Dual wavelength (254nm & 185nm) UV-lamp	YES			NO			YES
Pure water UV lamp (265nm)	YES			YES			NO
Real on-line TOC analyzer	YES			NO			YES
Type I Remote water dispenser arm with touch screen display	YES			NO			YES
Type II Remote water dispenser arm with touch screen display	YES			YES			NO
2M water piping from main unit to water tank & water dispenser	YES			YES			YES
Water tank of Type II water, stepless water level sensor	YES			YES			NO
254nm UV light of water tank	YES			YES			NO
Inlet air filter of water tank 0.2μm	YES			YES			NO
Water leakage protection sensor	YES			YES			YES
0.22 μm end filter	YES			YES			YES

*Optional ultra purification cartridge A special for semiconductor industry that has higher deionization requirements



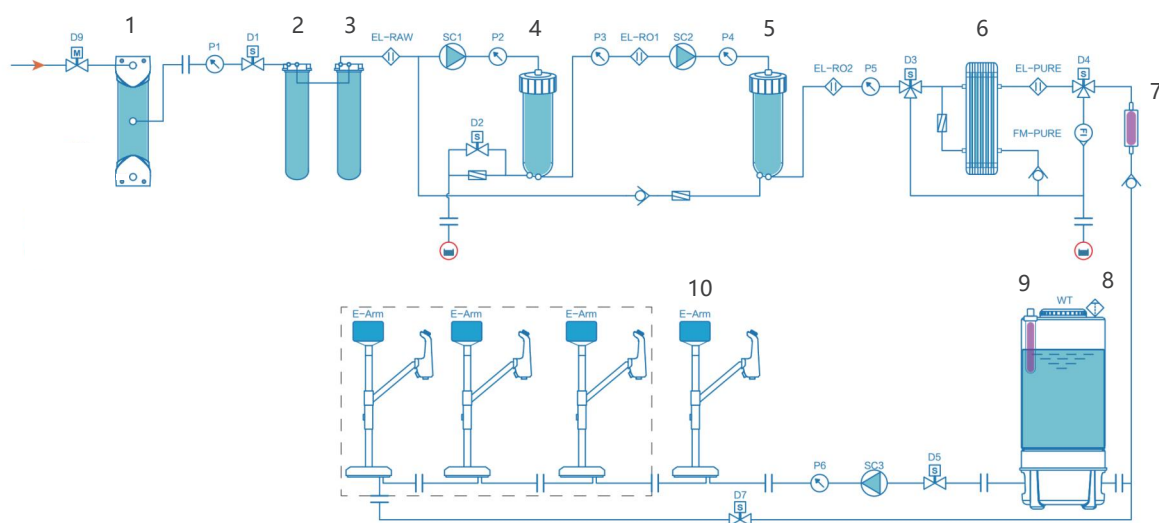
Nova E10 / Nova E15 / Nova E20

ASTM Type II Ultra purified water system

Unique features

- ASTM Type II Ultra purified water system
- EDI module imported
- Pure water mercury-free UV lamp 265nm
- Type II remote water dispenser arm with touch screen display
- U-cloud platform for remote monitoring (Wifi module)
- USB access port for data logging
- UV lamp can be customized to all mercury free with extra charge

Water Flow Chart



- | | |
|-----------------------------|---------------------------------|
| 1. Pre-treatment module | 6. EDI module |
| 2. Pre-guard cartridge A | 7. Mercury-free UV lamp 265nm |
| 3. Pre-guard cartridge B | 8. Water tank air filter |
| 4. First stage RO membrane | 9. Water tank UV lamp 254nm |
| 5. Second stage RO membrane | 10. Type II water dispenser arm |

Model	All-in-one system			Type II water			Type I water
	Nova EU10	Nova EU15	Nova EU20	Nova E10	Nova E15	Nova E20	Nova U
Feed water requirements							
Source	Potable tap water						Type II water/RO
Conductivity	<2000μS/cm						<100μS/cm
TOC	<1ppm						<50ppb
Hardness*	<300ppm						0-1ppm
Pressure	0.1~0.4MPa						0.1~0.4MPa
Temperature	4~45℃						4~45℃
PH	5-9						7/6-8
Total chlorine	<3ppm						/
Residual chlorine	<2ppm						/
SiO ₂	<30ppm						/
Type II high purified water							
Resistivity at 25℃**	15MΩ.cm; typically 10-15MΩ.cm						N/A
Conductivity at 25℃**	0.067μS/cm; typically 0.1μS/cm						
TOC	<30ppb(μg/L)						
Particulates with size > 0.22μm***	No particles						
Bacteria***	<0.01cfu/mL (<10cfu/L)						
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	0.01L ~ 60L						
Type I ultra purified water							
Resistivity at 25℃	18.2MΩ.cm			N/A			18.2MΩ.cm
Conductivity at 25℃	0.055μS/cm						0.055μS/cm
TOC	≤2ppb(μg/L)****						≤2ppb(μg/L)
Particulates with size > 0.22μm***	No particles						No particles
Endotoxin (Pyrogens)***	<0.001EU/mL						<0.001EU/mL
Bacteria***	<0.001cfu/mL (<10cfu/L)						<0.01cfu/mL (<10cfu/L)
Rnase/Dnase***	<1pg/mL						—
Proteases***	<0.15μg/mL						<0.15μg/mL
Manual control water flow rate	Maximum 2L/min, stepless control of flow rate						Maximum 2L/min, stepless control of flow rate
Quantitative water dispense range	0.01L ~ 60L						0.01L ~ 60L
Electrical requirement							
Electrical voltage	110V/220V ±10%						
Electrical frequency	50Hz/60Hz						
Power	<135W						
Size information							
Net Weight							
Pre-treatment module	5.9kg						N/A
Main host	24.9kg	25.4kg	26.6kg	23.9kg	24.4kg	25.6kg	14.3kg
Water dispenser arm	4.1kg/unit						N/A
30L Water tank	10.6kg						
60L Water tank	12.2kg						
100L Water tank	13.6kg						
External Dimension (WxDxH)							
Pre-treatment module	180×215×430 (mm)						N/A
Main host	330×545×525 (mm)						330×420×525 (mm)
Water dispenser arm	204×330×714 (mm)/unit						
30L Water tank	410×410×695(mm)						
60L Water tank	410×410×935(mm)						
100L Water tank	410×410×1245(mm)						
Packing information							
Gross Weight							
Accessory	13kg						N/A
Main host	33kg						24kg
Water dispenser arm	7.5kg/unit						N/A
30L Water tank	12.5kg						
60L Water tank	15.1kg						
100L Water tank	16kg						
Packing Dimension (WxDxH)							
Accessory	400×780×280 (mm)						N/A
Main host	420×630×700 (mm)						420×630×790 (mm)
Water dispenser arm	400×780×280 (mm)/unit						
30L Water tank	420×420×770 (mm)						N/A
60L Water tank	420×420×1010 (mm)						
100L Water tank	420×420×1320 (mm)						

*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 should meet above requirements and purified water through the remote water dispenser with end filter

****To achieve TOC level of less than 2 ppb in Type I pure water, the following conditions must be met: 1. The raw tap water must be less than 1 ppm; 2. The purification cartridge must be activated for at least 48 hours (preferably with testing and acceptance after one week purification); 3. 300 L of water must be flushed through the system.



Proseers

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