













About Us

Innova Bio-Meditech is one of the leading global providers of laboratory and medical devices. Firmly committed to our mission of "sharing innovative bio-meditech solutions with the world", we are dedicated to innovation in the fields of Biology Project, Life Science, Pharmacy Industry and Medical Treatment.

Innova Bio-Meditech possesses a sound distribution and service network with business partners in North and Latin America, Europe, Africa and Asia-Pacific etc. We have built up a well established R&D, manufacture network with 3 centers in Beijing, Qingdao, and Shanghai. Inspired by the needs of our customers, we adopt advanced technologies and transform them into accessible innovation. This means constant effort and research, in order to more fully understand the developments of the market, produce constantly upgraded product ranges by adding new products year after year.

"Secure Quality, Continuous Innovation"



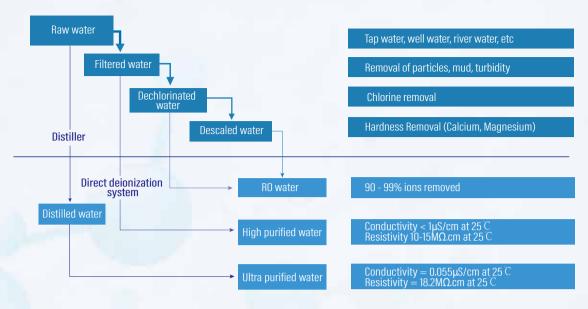


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Water purification phase



Pollutants in water



oInorganic salt (ion)

Interfering element analysis experiments, such as: titration experiments, IC, AA, ICP-MS (ten times lower than the detection limit), affecting cell culture and other biochemical and molecular biology experiments: cadmium is still toxic to cells at a concentration of 0.1ppb, Generate scale or crystals

Organic matter (TOC)

Encapsulate ion exchange resin, affect cell growth, interfere with HPLC (background, miscellaneous peaks...), nutrients for microbial growth, and generally affect molecular biology experiments

• Microorganism

Affect biological and molecular biology experiments such as cell culture experiments

oParticles, colloids

Block filters, disperse light, provide food and carriers for microorganisms

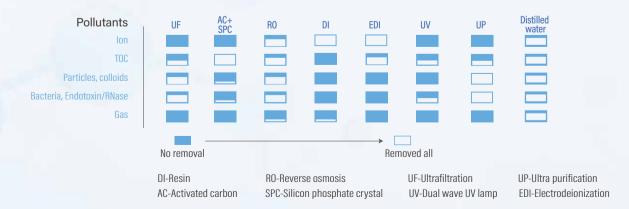
Heat source (endotoxin)/RNase, etc.

Cell culture and molecular biology will be affected

⊙Gas:

The water also contains gas, but it has a very small impact on the experiment, and has a certain impact on individual optical experiments.

Purification Technology





Water system selection guide

Water Type	Application	Series
ASTM D1193 Type II water European pharmacopoeia purified water Japanese pharmacopoeia purified water ISO 3696 Grade 2 water JIS K 0577 A3 water Clinical Laboratory Reagent Water (CLSI)	Preparation of the buffer solution, microbial medium and reagents Cleaning materials (dishwasher), autoclave sterilizer, greenhouse Atomic absorption (depending on the resolution) Water peer crops Chemical industry (pure water) Pharmaceutical and cosmetic industry (purified water according to USP) Veterinary laboratory (purified water according to USP) Clinical analysis Salt fog room Climate room	All-in-one system Nova series: Nova EU10/EU15/EU20 Performa series: Performa EU10 Performa EU15/EU20 Classic series: Classic DU15/DU20/DU25 Type II high purified water system Performa series: Performa E10/E15/E20 Classic series: Classic D15 D20 D25
ASTM D1193 Type I water, Grade B European pharmacopoeia purified water in bulk Japanese pharmacopoeia purified water ISO 3696 Grade 1 water JIS K 0577 A4 water	Atomic absorption / ICP Molecular biology HPLC PCR Ion chromatography Cell cultures GC-MS DNA sequencing	All-in-one system Nova series: Nova EU10/EU15/EU20 Performa series: Performa EU10 Performa EU15/EU20 Classic series: Classic DU15/DU20/DU25 Type I ultra purified water system Nova series: Nova U Performa series: Performa U
ASTM D1193 Type II water European pharmacopoeia purified water Japanese pharmacopoeia purified water ISO 3696 Grade 2 water JIS K 0577 A3 water Clinical Laboratory Reagent Water (CLSI)	Quality laboratory purified feed water distributed by building pipeline Upgraded Type I ultra purified water for optional	Titan series central high purified water system Nova C300, Nova C500 Classic C300, Classic C500

Standard Specification for the American Society of Testing and Materials (ASTM) D1193-91 reagent grade water

-	_			
Parameters	Type I*	Type II**	Type III ***	Type IV
Maximum conductivity(μS/cm at 25 ℃)	0.056	1	4	5
Resistance: Electrical Min. (MΩ.cm at 25 °C)	18	1	0.25	0.2
PH at 25 °C	_	_	_	5-8
Maximum TOC (μg/L)	10	50	200	No restriction
Maximum sodium (μg/L)	1	5	10	50
Maximum silica (μg/L)	3	3	500	No restriction
Maximum chlorine (μg/L)	1	5	10	50

^{*} A membrane filter of 0.2 micron is required **Prepared by distillation ***Requires a membrane filter of 0.45µm

2006 CLSI Specification for Reagent Laboratory Water

Water Type	CLSI Specifications		
	Maximum microbial content (CFU/mL) <10		
CLDW (Clinical Inharatory, reagent water)	Minimum resistivity 10 MΩ-cm, 25°C		
CLRW (Clinical laboratory reagent water)	Free of particulates >0.22 µm		
	Organic materials (TOC)<500 ppb		



Pretreatment module

Three water ports

Pretreatment module is device to pre filter tap water before it goes to main system. Depends on the quality of inlet water, service life can reach 2-3 years.

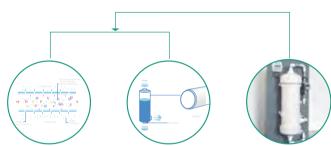
In the back of module are three ports: water inlet, filtered water outlet and waste water outlet

When working, the waste water outlet port will be closed. Inlet water will pass through the ultrafiltration membrane and out from filtered water outlet. When washing program running, a solenoid valve will turn on, water will go through the cartridge by pass filtered water outlet, flush the impurity on the surface of membrane, the dirty water directly discharges from the waste water outlet.





Module inside & Ultrafiltration cartridge









Ultrafiltration membrane

Ultrafiltration cartridge

Timer

Solenoid valve

Ultrafiltration cartridge

10 nanometers pore size ultrafiltration membrane to remove completely colloids, particles, free chlorine and minerals

Timer and Solenoid valve

The timer controls solenoid valve, can set washing times, factory default setting is once a day at 6 am for 10 minutes, or the system can be customized accordingly up to 15 times per day, every time 10 minutes.

Example

Every morning, at 6 o'clock will start automatically a 10 minutes washing

program to make sure the water quality for your daily use. All waste water will be discharged, each time no more than 20L, but there is no need to worry about the waste. Considering the ratio of waste water of whole system is less than most brands, the waste water in RO module is 25% compared with 50% of others, while 75% water will be recycled, on the other hand, waste water in EDI Module just only 25%, so, the whole purification system, you will have 55% purified water, meanwhile, the lifetime of cartridges

and EDI module inside of the main machine will be extended.

Total inlet: 100L per day

Proseers purified water (100-20)*75%*75% = 45L

Others:

Purified water 100 * 50% * 50%=25L

Feed water requirements

The quality of feed water will affect directly the quality of purified water and service life of equipment, if the tap water contains a high rate of hardness that do not meet the requirements, please use salty box to remove calcium ions and magnesium ion in advance.



Three main purification cartridges



Purification cartridges

Pre-guard cartridge A

Filled with natural coconut shell activated carbon and silicon phosphate crystal.

Pre-guard cartridge B

Filled with natural coconut shell activated carbon.

(These two cartridges will help to remove residual free chlorine, calcium ions and magnesium ions)

Ultra purification cartridge A

Filled with electronic grade resin and medical grade artificial activated carbon.

Only equipped with all-in-one system and ultra purified water system to produce Type I water.

How to detect the water quality?

— Conductivity sensors equipped in four places to detect the water quality.





Rapid installation of cartridges

——The Assembly and disassembly of cartridges is super easy, remove the cap and place it where it should be.



Working capacity

Pre-guard cartridge A—25000L
Pre-guard cartridge B—25000L
Ultra purification cartridge A—15000L



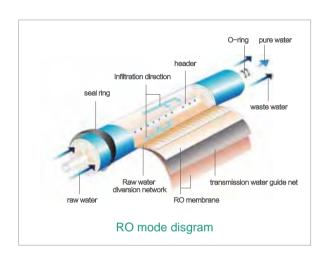


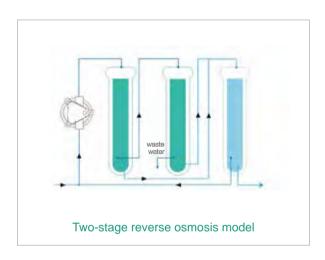


Two-stage RO module



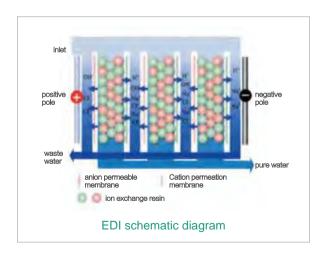
Depends on feed water quality, our two-stage RO module service life can reach 2-3 years, and the conductivity of RO water will less than 5μS/cm which can protect the running of EDI module and prolong his service life. Ratio of waste water is only 25% with recycle technology.





Electrodeionization (EDI) system







Water circulation before collecting



Water circulation before collecting

- When collect type II water, the water in water tank flows back to the host, passing through circulation pump and dual wavelength ultraviolet lamp (254 and 185 nm) then outlet from the dispenser.
- When collect type I water, the water in water tank flows back to the host, passing through circulation pump, dual wavelength ultraviolet lamp and ultra purification cartridge then outlet from the dispenser. Meanwhile, a little bit of type I water will be divided to TOC analyzer module to evaluate the purity.

Water pumps

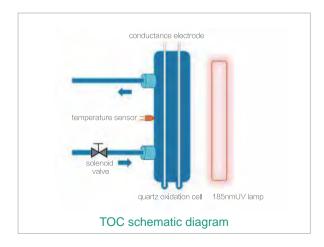
CE and NSF qualified water pumps, low noisy and stable working pressure.

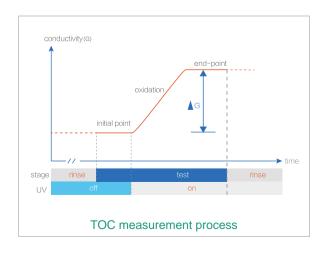
TOC analyzer



Dual wavelength UV lamp









60 liters PE water tank

- 254nm UV lamp, works 10 minutes every 5 hours to prevent growth of bacteria.
- 0.2µm inlet air filter to prevent air pollution.
- O Pressure sensor to indicate the amount of water.
- Stepless water level adjustment on touch screen.







UV lamp



Air filter



Liquid level sensor



Automatic wake-up program for RO and EDI

When the purification system rests more than 24 hours, a wake-up program will start automatically to produce purified water in order to make sure the purification quality for your daily use.

How to collect purified water?



 To collect Type II water by using water valve directly from the water tank



Quantitative water dispense. Click the flask icon, enter the amount in milliliters, save and press 'dispenser' to collect water, the collecting can be terminated by clicking "cancel"



Collect Type II and Type I water by using dispenser arms: dispense water by clicking the button to activate, by rotating the button to control the flow rate upto 2L/min, to stop dispensing by clicking the button again



Foot pedal frees your hands, flow rate upto
 2L/minutus need be setted in advance by
 rotating the button of dispenser arm (Optional)



Remote dispenser arms

Two remote dispenser arms, one for Type II high purified water and one for Type I ultra purified water. Mounted with TFT touch sc-reen for setting, operating and monitoring. The arm equipped with a point-of-use filter can move up and down, and it also can be rotated 360 degrees.



Universal salt softener all laboratory use models



Control valve	Automatic
Regeneration mode	Flow time mixed type/time type
Volume	5L
Recommended flow	≥0.5T/H
Pressure	0.15-0.5MPa
voltage	220V 50Hz
Inlet and outlet size	3/4" and 1"
Drain pipe size	φ18mm
Salt valve	Yes
External dimension	230×450×485mm
Packing dimension	240×465×520mm



Data record & WIFI service

How to download data?

Built in using USB port to download the current data and historical data by connecting your USB drive



Wifi function

Our Wifi function offers real-time remote monitoring service, in the settings menu, select wifi mode or 4G mode.

After connecting, users can check the running status of system at any time.





Nova Zero-ion

purification terminal and dispensing unit of Nova U and Nova EU series, providing ppt or sub-ppt ultrapure water for sensitive analyses such as trace and ultra-trace elemental analysis

Applications:

- ICP-MS/ nano UHPLC/ nano LC-MS/ LC-ESI- MS/ GF-AAS analyses
- Detection and measurement of elements at ppt and sub-ppt levels in samples
- Trace and ultra-trace elemental analyses
- Electronic chip flushing
- Environmental testing, drug analysis, forensic medicine, food and beverage industry, etc.



Main features

Compact design occupies less space, simple dispenser unit can be placed in super clean area to reduce contamination. Equipped with NFC chip recognition, internet of things technology, online real time U-cloud remote monitoring.

Trace analysis ultra-purification cartridge



- Unique cartridge with patented electronica grade resin, easy to replace
- Brand-new waterway design, more loading capacity and stable water quality
- Unique connection design, stronger pressure resistance, better tightness

Outlet pipe support



- Easy to place in any clean environment
- Integrated design, easy to clean, prevent the growth of bacteria
- Good chemical stability, suitable for any environmental conditions



Intelligent human-computer interaction



•5"LCD touch screen, animated icons, easy to operate



Clear running status and information display



 Three-level access authorities, convenient laboratory management

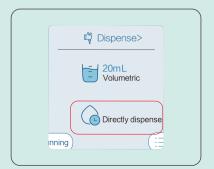


Water quality report viewing and exporting function

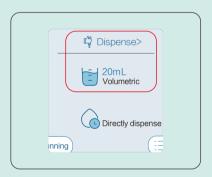
Dispense control



Flow rate control by Type I water dispenser arm, up to 2L/min



ODirectly dispense by click the icon



Quantitative water dispense



Foot pedal frees your hands



Central high purified water system

 Titan series is central high purified water system including pre-treatment system, main system and water tank.





Pre-treatment system include

- •Raw water pump
- Sand carbon filter, filled with activated carbon with stable performance to effectively remove residual chlorine and organic matter.
- Dual treatment of salt tank and resin softener to reduce the water hardness and remove water scale.
- Ultrafiltration membrane, PVDF material, nano-level filtration, remove particles, silt, colloids, microorganisms, etc. to ensure the safety and efficiency of the back-end purification components.

Main system include

- OCE and NSF qualified high pressure water pump
- Reverse osmosis membrane, rejection rate 95% -99% to remove organic matter, ions and particles.
- O EDI module
- Water distribution pump
- Microporous filter membrane pipeline filter to prevent pipeline pollution caused by microorganisms and blockage by debris
- Dual wavelength (254nm & 185nm) UV-lamp to remove microorganisms including bacterial spores and nonpathogenic microorganisms







SUS 304 stainless steel water tank

• Standard volume is 500L, can be customized upto 1 ton, 1.5 tons, 2 tons, etc. Equipped with 254nm UV lamp and 0.2μm inlet air filter

How to collect purified water?

- Water supply port, directly distribute the purified water into all inlet pipeline of building
- Purified water outlet for temporary water collecting



-Nova-Smart

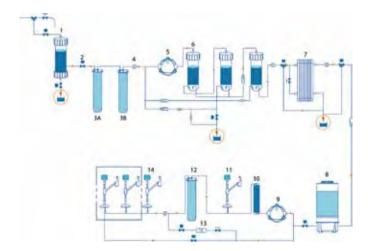


Nova EU10 / Nova EU15 / Nova EU20

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
- O Dual wavelength UV-lamp 254nm & 185nm
- © 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



- 1 Pre-treatment module
- 3B Pre-guard cartridge B
- 6 RO membrane
- 9 Circulating pump
- 12 Ultra purification cartridge
- 14 Type I water dispenser arm
- 2 Solenoid valve
- 4 Conductivity electrode
- 7 EDI module
- 10 UV lamp 185 & 254 nm
- 13 Real on-line TOC analyzer
- 3A Pre-guard cartridge A
- 5 Booster pump
- 8 Water tank
- 11 Type II water dispenser arm



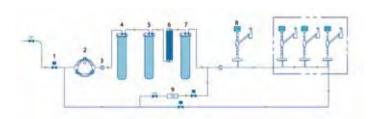


Nova U

Unique features

- ASTM Type I Ultra purified water system
- © Real on-line TOC analyzer with 185nm UV-lamp inside
- O 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

Water Flow Chart



- 1 Solenoid valve
- 3 Conductivity electrode
- 5 Pre purification cartridge B 6 185 & 254nm UV lamp
- 7 Ultra purification cartridge
- 9 Real on-line TOC analyzer
- 2 Circulating pump

ASTM Type I Ultra purified water system

- 4 Pre purification cartridge A
- 8 Type I water dispenser arm

Main configurations		All-in-one system	Type I water	
Main configurations	Nova EU10	Nova EU15	Nova EU20	Nova U
Pre-treatment module		YES		NO
Main host		YES		YES
Pre-guard cartridge A		YES		NO
Pre-guard cartridge B		YES		NO
Ultra purification cartridge A*		YES		YES
Two-stage Reverse osmosis		YES		NO
EDI module imported		YES		NO
Pre purification cartridge A		NO		YES
Pre purification cartridge B		NO		YES
Dual wavelength (254nm & 185nm) UV-lamp		YES		YES
Real on-line TOC analyzer		YES		YES
Type I Remote water dispenser arm with touch screen display		YES		YES
Type II Remote water dispenser arm with touch screen display		YES		NO
2M water piping from main unit to water tank & water dispenser		YES		YES
60L water tank of Type II water, 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
Point-of-use filter 0.22µm		YES		YES

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



		_
Model	All-in-one system	Type I water
	Nova EU10 Nova EU15 Nova	a EU20 Nova U
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	5~45 °C	5~45°C
PH	4-10	7/6-8
Type II high purified water		<u>'</u>
Resistivity at 25 °C **	15MΩ.cm; typically 10-15MΩ.c	cm
Conductivity at 25 ℃ **	0.067μS/cm; typically 0.1μS/cr	m
TOC	<30ppb(μg/L)	
Particulates with size > 0.22µm***	No particles	
Endotoxin (Pyrogens)***	<0.001EU/mL	
Bacteria*** Rnase***	<0.01cfu/mL (<10cfu/L)	
Dnase***	<1pg/mL	N/A
Proteases***	<3pg/mL	
RO rejection	<0.15μg/mL	
EDI ion rejection	≥99% ≥99%	
Production flow rate		L/H
Manual control water flow rate	Maximum 2L/min, steples	
Quantitative water dispense range	0.01L ~ 6	
Type I ultra purified water		
Resistivity at 25 ℃	18.2M	Ω.cm
Conductivity at 25 °C	0.055μ	S/cm
TOC	≤2ppb((μg/L)
Particulates with size > 0.22μm	No par	ticles
Endotoxin (Pyrogens)	<0.001E	
Bacteria	<0.01cfu/mL	· · · · · · · · · · · · · · · · · · ·
Rnase/Dnase	Fre	
Proteases	<0.15µ Maximum 2L/min, steple	
Manual control water flow rate	0.01L o	
Quantitative water dispense range Electrical requirement	0.012	- 00L
Electrical voltage	110V/220	0V +10%
Electrical frequency	50Hz/9	
Power	<135	
Size information		
Net Weight		
Pre-treatment module	8.5kg	N/A
Main host	32kg 32.7kg 33	· · · · · · · · · · · · · · · · · · ·
Water dispenser arm		3.2kg 18.9kg
·	5.2kg/unit	
30L Water tank	5.2kg/unit 9kg	3.2kg 18.9kg
30L Water tank 60L Water tank	5.2kg/unit 9kg 10.66kg	
30L Water tank 60L Water tank 100L Water tank	5.2kg/unit 9kg	3.2kg 18.9kg
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH)	5.2kg/unit 9kg 10.66kg 12.2kg	8.2kg 18.9kg
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30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm	5.2kg/unit 9kg 10.66kg 12.2kg 270x280x566 (mm) 328×520x540 (mm) 490×270x7	N/A
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30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information Gross Weight Pre-treatment module	5.2kg/unit 9kg 10.66kg 12.2kg 270x280x566 (mm) 328×520x540 (mm) 490×270x7 390x390x690 (mm) 390x390x930 (mm) 390x390x1235 (mm) 9.8kg	N/A N/A N/A 328x410x520 (mm) 790 (mm) /unit
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30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information Gross Weight Pre-treatment module Main host Water dispenser arm 30L Water tank Packing information Gross Weight Pre-treatment module Main host Water dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing Dimension (WxDxH)	5.2kg/unit 9kg 10.66kg 12.2kg 270x280x566 (mm) 328×520x540 (mm) 490×270x7 390x390x690 (mm) 390x390x1235 (mm) 9.8kg 42.8kg 43.5kg 44 7.9kg/unit 12.4kg 14kg 15.6kg	N/A N/A N/A 328x410×520 (mm) 790 (mm) /unit N/A 32.9kg N/A
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information Gross Weight Pre-treatment module Main host Water dispenser arm 30L Water tank Pre-treatment module Main host Water dispenser arm 30L Water tank 60L Water tank 60L Water tank 700L Water tank 9acking Dimension (WxDxH) Pre-treatment module	5.2kg/unit 9kg 10.66kg 12.2kg 270x280x566 (mm) 328×520x540 (mm) 490×270x7 390x390x690 (mm) 390x390x1235 (mm) 9.8kg 42.8kg 43.5kg 44 7.9kg/unit 12.4kg 14kg	N/A N/A N/A 328x410x520 (mm) 790 (mm) /unit N/A N/A N/A N/A
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm 30L Water tank 60L Water tank 100L Water tank 100L Water tank Packing information Gross Weight Pre-treatment module Main host Water dispenser arm 30L Water tank 60L Water tank 40L Water tank 90L Water tank 60L Water tank 60L Water tank 60L Water tank 60L Water tank 100L Water tank Packing Dimension (WxDxH) Pre-treatment module Main host	5.2kg/unit 9kg 10.66kg 11.2kg 270x280x566 (mm) 328x520x540 (mm) 490x270x7 390x390x690 (mm) 390x390x1235 (mm) 9.8kg 42.8kg 43.5kg 44 7.9kg/unit 12.4kg 14kg 15.6kg 350x360x670 (mm) 510x670x750 (mm)	N/A N/A N/A 328x410x520 (mm) 790 (mm) /unit N/A 32.9kg N/A N/A N/A N/A N/A
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information Gross Weight Pre-treatment module Main host Water dispenser arm 30L Water tank Packing information Gross Weight Pre-treatment module Main host Water dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm	5.2kg/unit 9kg 10.66kg 112.2kg 270x280x566 (mm) 328x520x540 (mm) 490x270x7 390x390x690 (mm) 390x390x1235 (mm) 9.8kg 42.8kg 43.5kg 4 7.9kg/unit 12.4kg 14kg 15.6kg 350x360x670 (mm) 510x670x750 (mm) 840x530x2	N/A N/A N/A 328x410x520 (mm) 790 (mm) /unit N/A N/A N/A N/A
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information Gross Weight Pre-treatment module Main host Water dispenser arm 30L Water tank Packing information Gross Weight Pre-treatment module Main host Water dispenser arm 30L Water tank 100L Water tank Packing Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm 30L Water tank Packing Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm 30L Water tank	5.2kg/unit 9kg 10.66kg 112.2kg 270x280x566 (mm) 328x520x540 (mm) 490x270x7 390x390x690 (mm) 390x390x1235 (mm) 9.8kg 42.8kg 43.5kg 47.9kg/unit 12.4kg 14kg 15.6kg 350x360x670 (mm) 510x670x750 (mm) 840x530x2 520x520x780 (mm)	N/A N/A N/A 328x410x520 (mm) 790 (mm) /unit N/A 32.9kg N/A N/A N/A S10x670x750 (mm) 190 (mm) /unit
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information Gross Weight Pre-treatment module Main host Water dispenser arm 30L Water tank Packing information Gross Weight Pre-treatment module Main host Water dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm	5.2kg/unit 9kg 10.66kg 112.2kg 270x280x566 (mm) 328x520x540 (mm) 490x270x7 390x390x690 (mm) 390x390x1235 (mm) 9.8kg 42.8kg 43.5kg 4 7.9kg/unit 12.4kg 14kg 15.6kg 350x360x670 (mm) 510x670x750 (mm) 840x530x2	N/A N/A N/A 328x410x520 (mm) 790 (mm) /unit N/A 32.9kg N/A N/A N/A N/A N/A

[#]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 10-15MΩ.cm at 25 C, Conductivity typically 0.1µS/cm, at 25 C
***Feed water quality shoud meet above requirements and purified water through the remote water dispenser with end 0.22µm filter



-Nova Zero-ion



Nova Zero-ion

Unique features

ppt or sub-ppt ultra purified water

- © Equip with Nova EU and Nova U only
- Unique cartridge with patented electronica grade resin
- U-cloud platform for remote monitoring
- USB access port for data logging

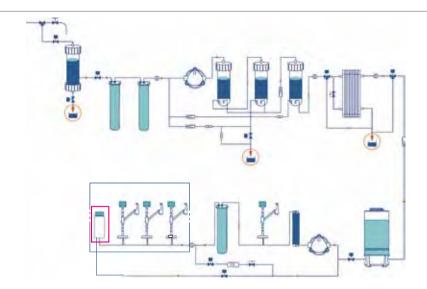
Feed water*	
Resistivity at 25 °C	18.2MΩ.cm
Total Organic Carbon (TOC)	≤5ppb(μg/L)
Performance	
Resistivity at 25 °C	18.2MΩ.cm
Total Organic Carbon (TOC)	≤2ppb(μg/L)
lon content**	<0.1ppt
Flow rate	Up to 2L/min, stepless control
Quantitative water dispense range	0.01L-60L
Size information	
$Dimensions (W \! \times \! D \! \times \! H)$	180×217×510mm
Net weight	6.9kg
Length of outlet pipe	Standard 2m, customized length for optional
Outlet pipe support dimensions (W×D×H)	80×201.5×400mm
Packing information	
Package dimensions (W×D×H)	220×451×563mm
Gross weight	8.5kg

^{*}Ultra pure water/Type I water by Nova series

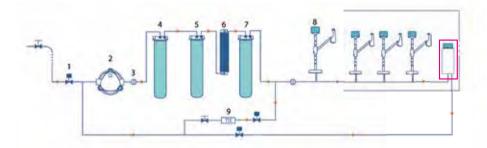


^{**}Verified by end user, analytical technique of trace elements

Nova EU



Nova U



Elemental detection data

Element	Unit	Detection limit	Sample
Calcium (Ca)	μg/L	6.61	<6.61
Iron (Fe)	μg/L	0.82	<0.82
Chromium (Cr)	μg/L	0.11	<0.11
Barium (Ba)	μg/L	0.2	<0.2
Vanadium (V)	μg/L	0.08	<0.08
Cadmium (Cd)	μg/L	0.05	<0.05
Cobalt (Co)	μg/L	0.03	<0.03
Gallium (Ga)	μg/L	0.02	<0.02
Potassium(K)	μg/L	4.5	<4.5
Aluminium (Al)	μg/L	1.15	<1.15
Magnesium (Mg)	μg/L	1.94	<1.94
Manganese (Mn)	μg/L	0.12	<0.12
Molybdenum (Mo)	μg/L	0.06	<0.06
Sodium (Na)	μg/L	6.36	<6.36
Nickel (Ni)	μg/L	0.06	<0.06
Boron (Bi)	μg/L	1.25	<1.25
Beryllium (Be)	μg/L	0.04	<0.04
Lead (Pb)	μg/L	0.09	<0.09
Arsenic (As)	μg/L	0.12	<0.12
Strontium (Sr)	μg/L	0.29	<0.29
Thallium (TI)	μg/L	0.02	<0.02
Titanium (Ti)	μg/L	0.46	<0.46
Antimony (Sb)	μg/L	0.15	<0.15
Copper (Cu)	μg/L	0.08	<0.08
Selenium (Se)	μg/L	0.41	<0.41
Tin (Sn)	μg/L	0.08	<0.08
Zinc (Zn)	μg/L	0.67	<0.67
Sliver (Ag)	μg/L	0.04	<0.04

 ${\sf Data\ obtained\ courtesy\ of\ SGS-CSTC\ Standards\ Technical\ Services\ \ (Qingdao)\ \ Co., Ltd}$



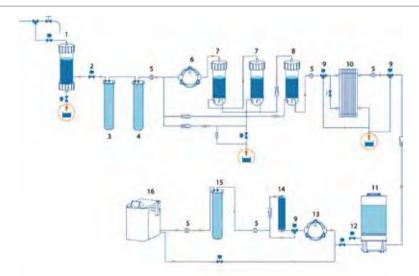
-Performa



Performa EU10 / Performa EU15 / Performa EU20

Unique features All-in-one system

- o All-in-one system for ASTM Type I & Type II water/Clinical laboratory reagent water (CLSI)
- Integrated water dispenser arm
- On line real time TOC monitoring
- Dual wavelength UV-lamp 254nm & 185nm
- Ohina made EDI self-developed
- © U-cloud platform for remote monitoring (Wifi module)
- USB access port for data logging



- 1 Pre-treatment module
- 4 Pre-guard cartridge B
- 7 One-stage RO membrane
- 10 EDI module
- 13 Circulating pump
- 16 Type I water dispenser arm
- 2 Solenoid valve
- 5 Conductivity electrode
- 8 Two-stage RO membrane 9 TEE Solenoid valve
- 11 Water tank
- 14 UV lamp 185 & 254 nm
- 3 Pre-guard cartridge A
- 6 Booster pump
- 12 Type II water outlet
- 15 Ultra purification cartridge



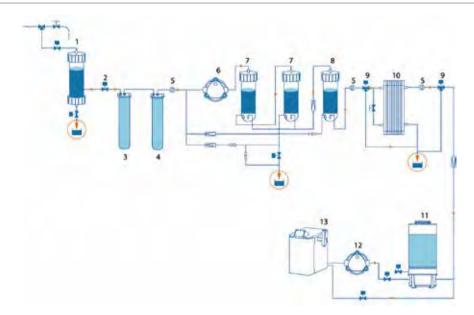


Performa E10 / Performa E15 / Performa E20

Unique features

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

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



- 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



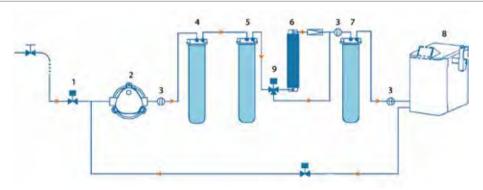


Performa U

Unique features

ASTM Type I Ultra purified water system

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



- 1 Solenoid valve
- 2 Circulating pump
- 3 Conductivity electrode

- 4 Pre purification cartridge A7 Ultra purification cartridge
- 5 Pre purification cartridge B8 Type I water dispenser arm
- 6 UV lamp 185 & 254 nm
- 9 TEE Solenoid valve

Main configurations	All-in-one system		Type II water			Type I wa	nter		
wani conngurations	Performa EU10 Perfo	orma EU15 Perf	orma EU20	Performa E10	Performa E15	Performa E20	Performa	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		
Pre purification cartridge A		NO			NO		YES		
Pre purification cartridge B		NO			NO		YES		
Two-stage Reverse osmosis		YES		YES		NO			
EDI module self-developed		YES		YES		NO			
60L water tank; 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		
Dual wavelength (254nm & 185nm)UV-lamp		YES	ES NO			YES			
TOC monitoring	YES		YES		YES NO			YES	
Ultra purification cartridge A	YES		YES		YES NO			YES	
One integrated type I water dispenser arm	YES			YES			YES		
1M water piping from main unit to water dispenser arm		YES		YES			YES		
Point-of-use filter 0.22µm		YES			YES		YES		

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



	All-in-one system		Type II water	Type I water		
Model		orma EU20 Performa E10	Performa E15 Performa E20			
Feed water requirements						
Source	Po	table tap water		Type II water/RO		
Conductivity		<2000μS/cm <1ppm		<100μS/cm		
TOC		< 50ppb 0-1ppm				
Hardness*		<450ppm as CaCO ₃				
Pressure	0.1~	0.4Mpa (7-72psi)		0.1~0.4Mpa (7-72psi)		
Temperature		5~45℃		5~45℃		
PH Type II high purified water		4-10		7/6-8		
Resistivity at 25 °C **	15MO cm	twoically10 15MO	m			
Conductivity at 25 °C **		15MΩ.cm; typically10-15MΩ.cm 0.067μS/cm; typically 0.1μS/cm				
TOC						
Particulates with size > 0.22µm***		<30ppb(μg/L) No particles				
Endotoxin (Pyrogens)***		<0.001EU/mL				
Bacteria***	<0.01	cfu/mL (<10cfu/L)				
Rnase***		<1pg/mL		N/A		
Dnase***		<3pg/mL		- 14/71		
Proteases***		<0.15μg/mL				
RO rejection		≥99%				
EDI ion rejection	101 /11 151 /11 201	≥99%	151 /11 201 /11	_		
Production flow rate Manual control water flow rate	10L/H 15L/H 20L		15L/H 20L/H	_		
Quantitative water dispense range	Maximum 2L/mir	n, stepless control of 10mL ~ 60L	riow rate	_		
Type I ultra purified water		TUML ~ BUL				
Resistivity at 25 °C	18.2MΩ.cm			18.2MΩ.cm		
Conductivity at 25 °C	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	<0.01cfu/mL (<10cfu/L)	N/Δ		<0.01cfu/mL (<10cfu/L)		
Rnase/Dnase	Free			Free		
Proteases	<0.15µg/mL			<0.15µg/mL		
Manual control water flow rate	Maximum 2L/min, stepless control o	f flow rate		Maximum 2L/min, stepless control of flow ra		
Quantitative water dispense range	0.01L ~ 60L			0.01L ~ 60L		
Electrical requirement						
Electrical voltage		110V/220	V ±10%			
Electrical frequency		50Hz/	60Hz			
Power		50Hz/60Hz				
		<13	5W			
Size information		<13	5W			
Net Weight			5W			
Net Weight Pre-treatment module	20.4	8.5kg		N/A		
Net Weight Pre-treatment module Main host with dispenser arm	29.6kg 30.3kg 30	8.5kg 0.8kg 27.7kg	5W 28.4kg 28.9kg	N/A 20kg		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank	29.6kg 30.3kg 30	8.5kg).8kg 27.7kg 9kg		·		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank	29.6kg 30.3kg 30	8.5kg).8kg 27.7kg 9kg 10.66kg		20kg		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank	29.6kg 30.3kg 30	8.5kg).8kg 27.7kg 9kg		·		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH)		8.5kg 0.8kg 27.7kg 9kg 10.66kg 12.2kg		20kg N/A		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module	2	8.5kg 0.8kg 27.7kg 9kg 10.66kg 12.2kg		20kg 		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host	2 3	8.5kg 0.8kg 27.7kg 9kg 10.66kg 12.2kg 170x280x566 (mm) 28×540×600 (mm)		N/A N/A 328×410×600 (mm)		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Integrated dispenser arm	2 3 3 42	8.5kg 0.8kg 27.7kg 9kg 10.66kg 12.2kg 270x280x566 (mm) 28x540x600 (mm) 2x85.5x231.5 (mm)		20kg 		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Integrated dispenser arm 30L Water tank	2 3 4;	8.5kg 9kg 10.66kg 12.2kg 170x280x566 (mm) 28x540x600 (mm) 2x85.5x231.5 (mm) 190x390x690 (mm)		N/A N/A 328×410×600 (mm) 42×85.5×231.5 (mm)		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank	2 3 4: 3	8.5kg 9kg 10.66kg 12.2kg 70x280x566 (mm) 28x540x600 (mm) 2x85.5x231.5 (mm) 90x390x690 (mm) 190x390x930 (mm)		N/A N/A 328×410×600 (mm)		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Integrated dispenser arm 30L Water tank	2 3 4: 3	8.5kg 9kg 10.66kg 12.2kg 170x280x566 (mm) 28x540x600 (mm) 2x85.5x231.5 (mm) 190x390x690 (mm)		N/A N/A 328×410×600 (mm) 42×85.5×231.5 (mm)		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank	2 3 4: 3	8.5kg 9kg 10.66kg 12.2kg 70x280x566 (mm) 28x540x600 (mm) 2x85.5x231.5 (mm) 90x390x690 (mm) 190x390x930 (mm)		N/A N/A 328×410×600 (mm) 42×85.5×231.5 (mm)		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank	2 3 4: 3	8.5kg 9kg 10.66kg 12.2kg 70x280x566 (mm) 28x540x600 (mm) 2x85.5x231.5 (mm) 90x390x690 (mm) 190x390x930 (mm)		N/A N/A 328×410×600 (mm) 42×85.5×231.5 (mm)		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank 100L Water tank 100L Water tank Packing information Gross Weight Pre-treatment module Main host with dispenser arm	2 3 4/ 3 3	8.5kg 0.8kg 27.7kg 9kg 10.66kg 12.2kg 170x280x566 (mm) 28x540x600 (mm) 28x55.5x231.5 (mm) 190x390x930 (mm) 190x390x935 (mm) 190x390x1235 (mm)		N/A N/A 328×410×600 (mm) 42×85.5×231.5 (mm)		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank 100L Water tank Packing information Gross Weight Pre-treatment module	2 3 4/ 3 3	8.5kg 0.8kg 27.7kg 9kg 10.66kg 12.2kg 170x280x566 (mm) 28x540x600 (mm) 28x5.5x231.5 (mm) 190x390x930 (mm) 190x390x935 (mm) 90x390x1235 (mm) 9.8kg	28.4kg 28.9kg	N/A N/A 328×410×600 (mm) 42×85.5×231.5 (mm) N/A		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank 70c Water tank Packing information Gross Weight Pre-treatment module Main host with dispenser arm 30L Water tank	2 3 4/ 3 3	8.5kg 9kg 10.66kg 12.2kg 17.7x280x566 (mm) 28x540x600 (mm) 28x55x231.5 (mm) 29x390x690 (mm) 29x390x1235 (mm) 90x390x1235 (mm) 9.8kg 6kg 12.4kg 14kg	28.4kg 28.9kg	N/A N/A 328×410×600 (mm) 42×85.5×231.5 (mm) N/A		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) 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	2 3 4/ 3 3	8.5kg 0.8kg 27.7kg 9kg 10.66kg 12.2kg 27.0x280x566 (mm) 28x540x600 (mm) 28x55.x231.5 (mm) 90x390x690 (mm) 90x390x1235 (mm) 90x390x1235 (mm) 9.8kg 6kg 39.7kg 12.4kg	28.4kg 28.9kg	20kg N/A N/A 328×410×600 (mm) 42×85.5×231.5 (mm) N/A 34kg		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank 100L Water tank Packing information Gross Weight Pre-treatment module Main host with dispenser arm 30L Water tank Packing information Gross Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank	22 33 42. 33 33 44. 40.4kg 41.1kg 41	8.5kg 0.8kg 27.7kg 9kg 10.66kg 12.2kg 170x280x566 (mm) 28x540x600 (mm) 28x55.x231.5 (mm) 90x390x930 (mm) 90x390x1235 (mm) 90x390x1235 (mm) 9.8kg 12.4kg 14kg 15.6kg	28.4kg 28.9kg	20kg N/A N/A 328×410×600 (mm) 42×85.5×231.5 (mm) N/A 34kg N/A		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L 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 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	22 33 42 33 33 40.4kg 41.1kg 41	8.5kg 0.8kg 27.7kg 9kg 10.66kg 12.2kg 170x280x566 (mm) 28x540x600 (mm) 2x85.5x231.5 (mm) 90x390x930 (mm) 90x390x1235 (mm) 9.8kg 12.4kg 14kg 15.6kg	28.4kg 28.9kg	20kg N/A N/A 328×410×600 (mm) 42×85.5×231.5 (mm) N/A 34kg N/A		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank 100L Water tank Packing information Gross Weight Pre-treatment module Main host with dispenser arm 30L 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 Main host with dispenser arm	40.4kg 41.1kg 41	8.5kg 0.8kg 27.7kg 9kg 10.66kg 12.2kg 170x280x566 (mm) 28x540×600 (mm) 28x55.5x231.5 (mm) 90x390x930 (mm) 90x390x1235 (mm) 9.8kg 12.4kg 14kg 15.6kg 15.6kg	28.4kg 28.9kg	20kg N/A N/A 328×410×600 (mm) 42×85.5×231.5 (mm) N/A 34kg N/A		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 60L Water tank 60L Water tank 100L Water tank 100L Water tank 100L Water tank 100L Water tank Packing information Gross Weight Pre-treatment module Main host with dispenser arm 30L Water tank 100L Water tank 100L Water tank Packing Dimension (WxDxH) Pre-treatment module Main host with dispenser arm 30L Water tank	40.4kg 41.1kg 41	8.5kg 0.8kg 27.7kg 9kg 10.66kg 12.2kg 170x280x566 (mm) 28x540×600 (mm) 28x55×231.5 (mm) 90x390x690 (mm) 90x390x1235 (mm) 90x390x1235 (mm) 9.8kg 12.4kg 14kg 15.6kg 15.6kg 15.6kg	28.4kg 28.9kg	20kg N/A N/A 328×410×600 (mm) 42×85.5×231.5 (mm) N/A 34kg N/A N/A 510x670x800 (mm)		
Net Weight Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Integrated dispenser arm 30L Water tank 60L Water tank 100L Water tank 100L Water tank Packing information Gross Weight Pre-treatment module Main host with dispenser arm 30L 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 Main host with dispenser arm	40.4kg 41.1kg 41	8.5kg 0.8kg 27.7kg 9kg 10.66kg 12.2kg 170x280x566 (mm) 28x540×600 (mm) 28x55.5x231.5 (mm) 90x390x930 (mm) 90x390x1235 (mm) 9.8kg 12.4kg 14kg 15.6kg 15.6kg	28.4kg 28.9kg	20kg N/A N/A 328×410×600 (mm) 42×85.5×231.5 (mm) N/A 34kg N/A		

^{*}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 0.22 μ m filter



—Classic

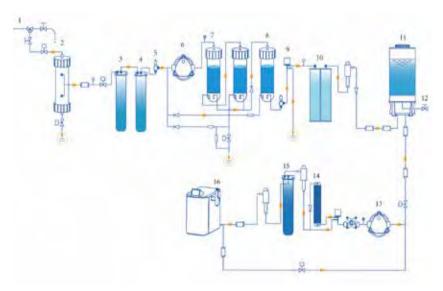


Classic DU15 / Classic DU20 / Classic DU25

Unique features

All-in-one system

- ASTM Type I & Type II water/Clinical laboratory reagent water (CLSI)
- On line real time TOC monitoring
- O Dual wavelength UV-lamp 254nm & 185nm
- U-cloud platform for remote monitoring (Wifi module)
- O DI resin module
- USB access port for data logging



- 1 Pre-treatment module
- 4 Pre-guard cartridge B
- 7 One-stage RO membrane
- 10 DI resin module
- 13 Circulating pump
- 16 Type I water dispenser arm
- 2 Solenoid valve
- 5 Conductivity electrode
- 8 Two-stage RO membrane
- 11 Water tank
- 14 185 & 254 nm UV lamp
- 3 Pre-guard cartridge A
- 6 Booster pump
- 9 TEE Solenoid valve
- 12 Type II water outlet
- 15 Ultra purification cartridge



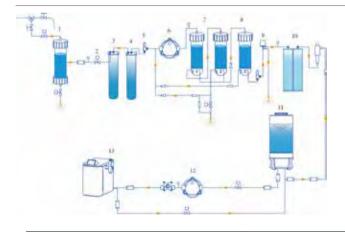


Classic D15 / Classic D20 / Classic D25

Unique features

- Integrated water dispenser arm
- © U-cloud platform for remote monitoring (Wifi module)
- o DI resin module
- USB access port for data logging

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



- 1 Pre-treatment module
- 3 Pre-guard cartridge A
- 5 Conductivity electrode
- 7 One-stage RO membrane
- 9 TEE Solenoid valve
- 11 Water tank 13 Type II water dispenser arm
- 2 Solenoid valve
- 4 Pre-guard cartridge B
- 6 Booster pump
- 8 Two-stage RO membrane
- 10 DI resin module
- 12 Circulating pump

Main configurations	Main configurations All-in-one system		em		Type II water			
wani configurations	DU15	DU20	DU25	D15	D20	D25		
Pre-treatment module	YES			YES				
Main host		YES		YES				
Pre-guard cartridge A		YES			YES			
Pre-guard cartridge B		YES			YES			
Two-stage Reverse Osmosis		YES		YES				
DI resin		YES		YES				
60L water tank; stepless water level sensor		YES		YES				
254nm UV light of water tank		YES		YES				
Inlet air filter of water tank		YES		YES				
Water leakage protection sensor	YES			YES YES				
TOC monitoring	YES			YES NO			NO	
Dual wavelength (254nm & 185nm)UV-lamp	YES		YES			NO		
Ultra purification cartridge A	YES NO							
One integrated water dispenser arm		YES			YES			

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



Model	All-in-one system			Type II water	
	DU15 DU20	DU25	D15	D20	D25
Feed water requirement					
Source			ap water		
Conductivity		< 2000μS/cm			
TOC Hardness*	< 1ppm < 450ppm as CaCO ₃				
Pressure	0.1~0.4Mpa (7-72psi)				
Temperature		5~45 C			
PH			10		
Type II high purified water					
Resistivity at 25 C**	>81	>8MΩ.cm; typically 10-15MΩ.cm			
Conductivity at 25 C **		Typically 0.1µS/cm			
TOC	<30ppb(μg/L)				
Particulates with size > 0.22μm***		<1pc/µL			
Endotoxin (Pyrogens)***			EU/mL		
Bacteria***			L(<10cfu/L)		
Rnase***			g/mL		
Dnase***			g/mL		
Proteases***			ug/mL		
RO rejection			9%		
DI ion rejection Production flow rate	151 // 201 // 201 // 1		9%	201 /11	251 (11
Manual control water flow rate	15L/H 20L/H	25L/H	15L/H less control of fl	20L/H	25L/H
Quantitative water dispense range	Maximun		~ 60L	low rate	
Type I ultra purified water		0.012	OOL		
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)	<0.001EU/mL			N/A	
Bacteria	<0.01cfu/mL (<10cfu/L	.)			
Rnase/Dnase	Free				
Proteases Manual control water flow rate	<0.15µg/mL Maximum 2L/min, stepless control of	flowrate			
Quantitative water dispense range	0.01L ~ 60L	now rate			
Electrical requirement	313.12 332				
Electrical voltage		110V/22	0V ±10%		
Electrical frequency		50Hz	/60Hz		
Power		13	5W		
Size information					
Net Weight			.1		
Pre-treatment module Main host with dispenser arm	20 41.5		ikg	27.21.5	27.71.0
30L Water tank	28.4kg 29.1kg	29.6kg	26.5kg	27.2kg	27.7kg
60L Water tank			kg i6kg		
100L Water tank			2kg		
External Dimension (WxDxH)		12.	zitg		
Pre-treatment module		270x280x	566 (mm)		
Main host			(600 (mm)		
Integrated dispenser arm		42×85.5×231.5 (mm)			
30L Water tank			690 (mm)		
60L Water tank	390x390x930 (mm)				
100L Water tank		390x390x	1235 (mm)		
Packing information					
Gross Weight Pre-treatment module		0.0	Bkg		
Main host with dispenser arm	39.2kg 39.9kg	40.4kg	38.5kg	39.2kg	39.7kg
30L Water tank	37,2,19		4kg		
60L Water tank			kg		
100L Water tank			6kg		
Packing Dimension (WxDxH)					
Pre-treatment module	350x360x670 (mm)				
Main host with dispenser arm	510x670x800 (mm)				
30L Water tank	520x520x780 (mm)				
60L Water tank	520x520x1020 (mm) 520x520x1325 (mm)				
100L Water tank		5ZUX5ZUX	1323 (111111)		

^{*} 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 10-15MΩ.cm at 25 °C, Conductivity typically 0.1μS/cm, at 25 °C
**** Feed water quality shoud meet above requirements and purified water through the remote water dispenser with end 0.22μm filter



—TITAN



Nova C300 / Nova C500 / Classic C300 / Classic C500

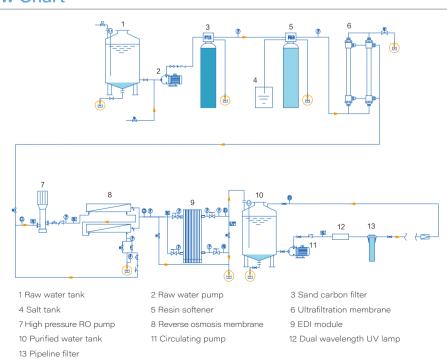
Nova-Unique features

- © EDI and water pumps original imported
- O ASTM Type II / Type I purified water system
- Pre-treatment module
- 500L stainless steel water tank
- Productivity rate 300L/500L
- TFT touch screen controller
- U-cloud platform for remote monitoring (Wifi module)
- USB access port for data logging

Classic-Unique features

- China made high quality customized
 EDI and pumps
- O ASTM Type II / Type I purified water system
- Pre-treatment module
- 500L stainless steel water tank
- Productivity rate 300L/500L
- TFT touch screen controller
- U-cloud platform for remote monitoring (Wifi module)
- USB access port for data logging

Central high purified water system



Main configurations		Central high purified water system				
		Nova C300	Nova C500	Classic C300	Classic C500	
Raw water tank						
	Raw water pump					
Pre-treatment module	Sand carbon filter					
	Salt tank and Resin softener					
	Ultrafiltration membrane	 All water pumps are original 		China made high quality water pumpEDI self-developed		
Main system	High pressure water pump					
	Reverse osmosis membrane					
	EDI module					
	Water distribution pump					
	Microporous filter membrane pipeline filter					
	Dual wavelength (254nm & 185nm) UV- lamp					
500L Stainless steel water tank	254nm UV light					
	0.2μm inlet air filter					

^{*}Please contact for more customized water tank: one ton, one and half tons, two tons, etc ** If needed, we will help to design installation building pipeline

[▲] Upgraded Type I ultra purified water system equipped with ultrafiltration membrane and TOC module (optional)

Model			Central high purified water system					
		Nova C300	Nova C500	Classic C300	Classic C500			
	Source		Potable tap water					
Feed water requirement	Conductivity		<2000μS/cm					
	TOC		<1ppm					
	Hardness*		<450ppm as CaCO₃					
	Pressure		0.1~0.4Mpa (7-72psi)					
	Temperature		5~45°C					
	PH		4-10					
	Resistivity at 25 C **		>8MΩ.cm; typically 10-15MΩ.cm					
Specifications	Conductivity at 25 ℃ **		0.125μS/cm; typically 0.1μS/cm					
	TOC		<30ppb(μg/L)					
	Particulates with size>0.22µm****		<1pc/μL					
	Bacteria****		<0.01cfu/mL(<10cfu/L)					
	Rnase****		<1pg/mL					
	Dnase****		<5pg/mL					
	Proteases****		<0.15µg/mL					
	RO rejection		≥99%					
	EDI ion rejection		≥99%					
	Flow rate***		Instantaneous demand 500-1000L/H					
	Production rate	300L/H	500L/H	300L/H	500L/H			
	Electrical voltage		110V/220V ±10%					
Electrical requirement	Electrical frequency		50Hz/60Hz					
	Power		220V					
	Pre-treatment module		200kgs					
Net weight	Main host		380kgs					
	500L Water tank		57kgs					
External dimension (HxWxL)	Pre-treatment module		1500×790×660(mm)					
	Main host		1750x1150x780(mm)					
	500L Water tank		2150×700×700(mm)					
	Pipeline conection		3/4 inch					
	Pre-treatment module	240kgs						
Packing gross weight	Main host		430kgs					
	500L water tank		57.5kgs					
Packing dimension (HxWxL)	Pre-treatment module		1650×840×710(mm)					
	Main host		1900×1200×830(mm)					
	500L water tank		2300×750×750(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

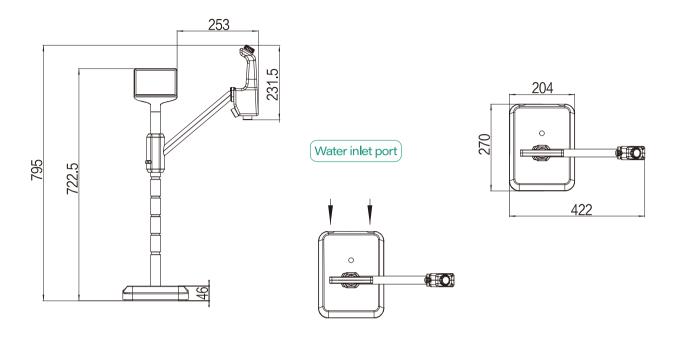
^{****}Feed water quality shoud meet above requirements



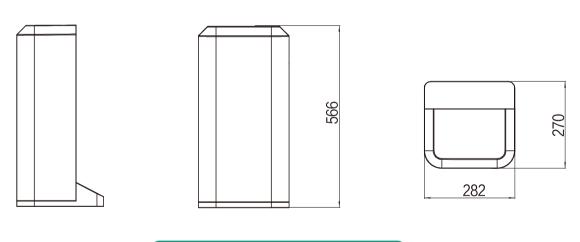
^{**} Resistivity Typically 10-15M Ω .cm at 25 $^{\circ}$ C , Conductivity typically 0.1 μ S/cm, at 25 $^{\circ}$ C

^{***} Instantaneous demand, water pressure 0.15-0.35MPa

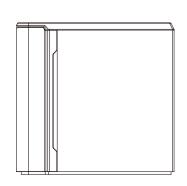
Dispenser Arm-Nova-Smart

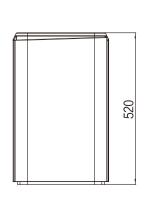


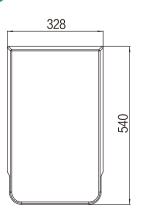
Pretreatment module-All models



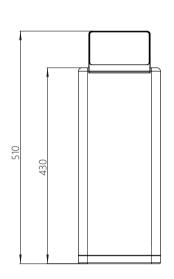
Nova series all-in-one machine

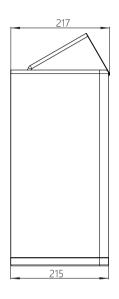


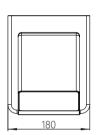




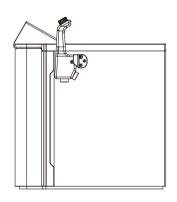
Nova Zero-ion

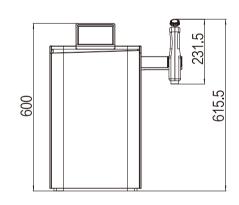


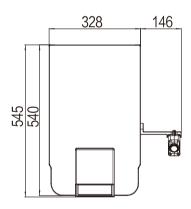




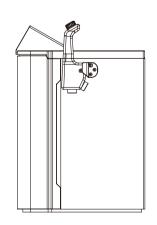
Performa serie All-in-one system Classic serie All-in-one system Classic series Type II water system

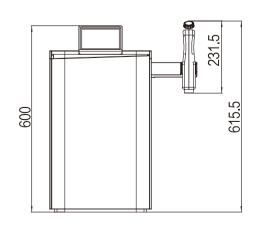


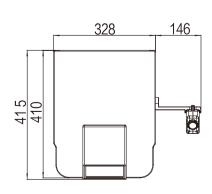




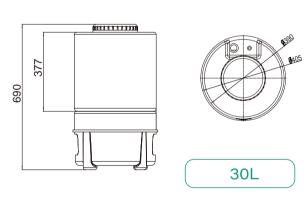


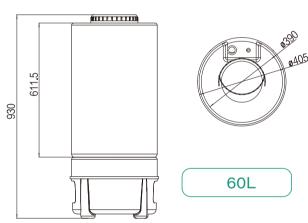


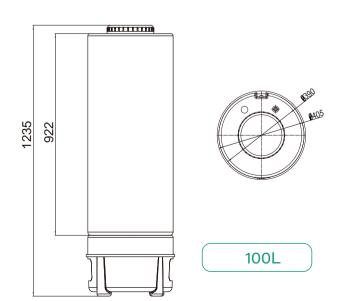


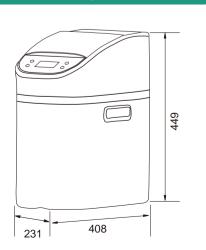


Nova U 328 520 Water tank





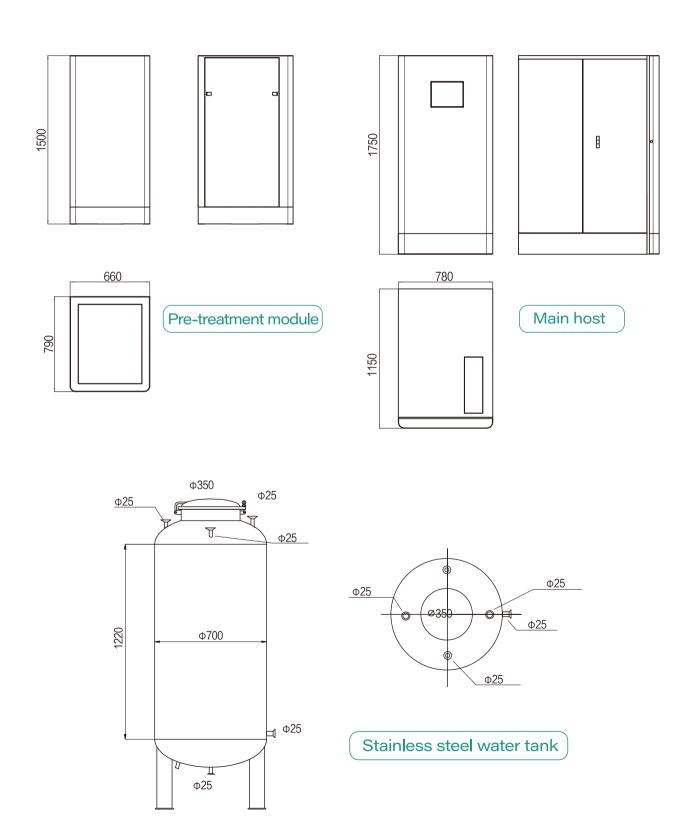




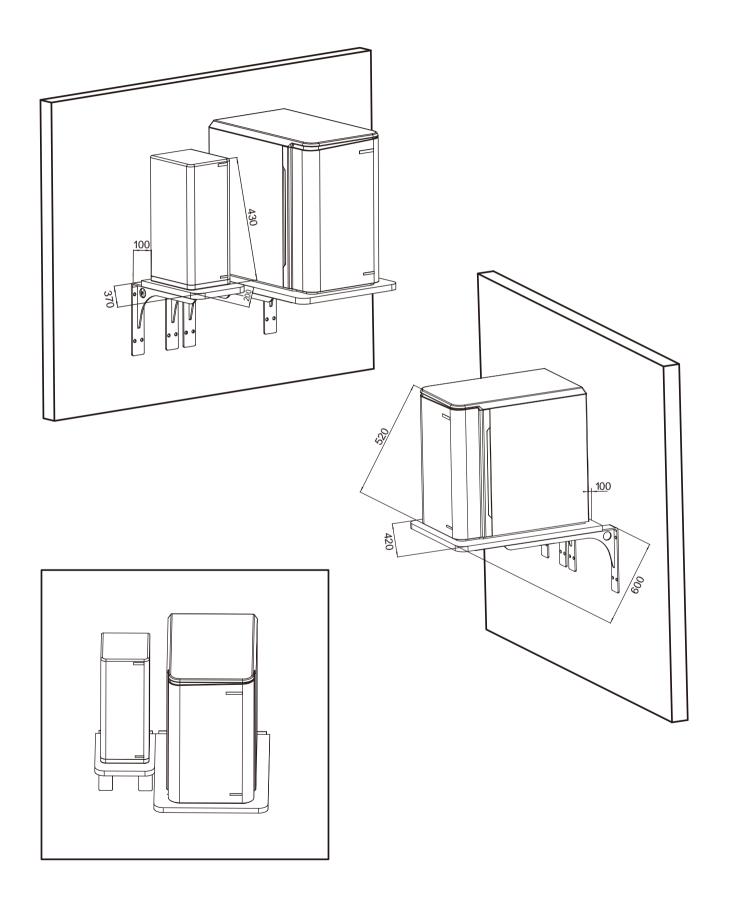
Universal salt softener for

all laboratory use models

Central high purified water system



Wall-mounted installation





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