













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.

The passion for science



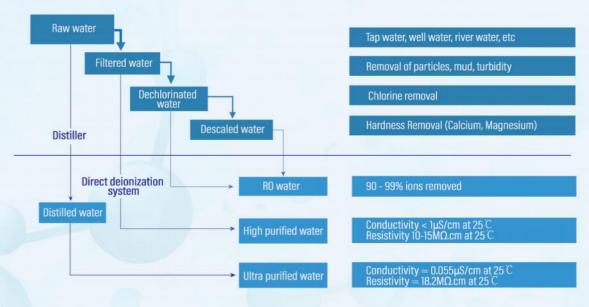


Content

Knowledge about water	01	
Water system selection guide	02	
Technical advantages	03	
Nova EU10 / Nova EU15 / Nova EU20 All-in-one system, Type I & Type II water	15	NOVA-SMART
Nova U Type I ultra purified water	16	
Nova Zero-ion ppt or sub-ppt ultra purified water	- 18	NOVA-ZERO-ION
Performa EU10 / Performa EU15 / Performa EU20 All-in-one system, Type I & Type II water	20	PERFORMA
Performa E10 / Performa E15 / Performa E20 Type II high purified water	21	
Performa U Type I ultra purified water	22	
Classic DU15 / Classic DU20 / Classic DU25	24	CLASSIC
Classic D15 / Classic D20 / Classic D25 Type II high purified water	25	
Nova C300 / Nova C500 Central Type II high purified water Upgraded Type I ultra purified water for optional	27	TITAN
Classic C300 / Classic C500 Central Type II high purified water Upgraded Type I ultra purified water for optional	27	



Water purification phase



Pollutants in water



olnorganic 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

oOrganic 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

oMicroorganism

Affect biological and molecular biology experiments such as cell culture experiments

oParticles, colloids

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

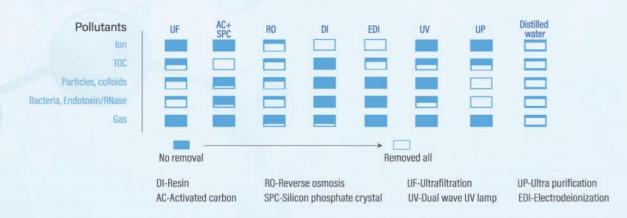
oHeat source (endotoxin)/RNase, etc.

Cell culture and molecular biology will be affected

oGas:

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 °C)	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

2006 CLSI Specification for Reagent Laboratory Water

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



^{***}Requires a membrane filter of 0.45µm

Pretreatment module

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.

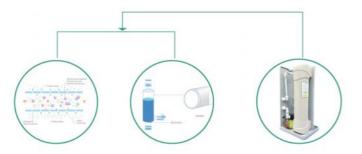
In the back of module are five water ports: water inlet, filtered water outlet, waste water outlet, booster pump water inlet, booster pump water outlet

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 waste water directly discharges from the waste water outlet.





Module inside & Ultrafiltration cartridge





Ultrafiltration cartridge



Water leakage detection solenoid valve



Pretrement flush solenoid valve

Ultrafiltration cartridge

Ultrafiltration membrane molecular weight cutoff ≤50000Da, can remove colloids, particles, free chlorine and minerals.

Solenoid valve

The water leakage detection solenoid valve is placed inside the pretreatment module and is controlled by the host; when water leakage is detected and

lasts for 2 seconds, the solenoid valve cuts off the pretreatment water inlet.

Pretreatment flush

The pretreatment ultrafiltration membrane flushing is linked with water production, automatically flushing the pretreatment module, the water is produced for 2 hours and flushed for 10 minutes (can be set), which can adapt to different water production

needs and extend the service life of consumables.

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 salt softener to remove calcium ions and magnesium ion in advance.



Three main purification cartridges

Purification cartridges

Pre-guard cartridge A

Filled with high-quality coconut shell activated carbon to effectively remove residual chlorine, macromolecular organics, colloids and heavy metal ions, etc.

Pre-guard cartridge B

Filled with an appropriate amount of silicon phosphorus crystals to effectively reduce the hardness of feed water. Filled with wire wound filter elements to retain powder and floc impurities.

Ultra purification cartridge B

Filled with electronic grade ion exchange resin, the ions in the water are controlled at ultra-trace levels. Advanced vertical flow purification method is adopted to ensure the service life and purification effect of purification cartridge, and reduce the use cost.

Ultra purification cartridge A (optional)

Suitable for organic analysis experiments. Filled with electronic grade ion exchange resin and medical grade artificial activated carbon, the ions and organic matter are controlled at ultra trace level. Advanced vertical flow purification method is adopted to ensure the service life and purification effect of purification cartridge, and reduce the use cost.

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

(optional)—15000L

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



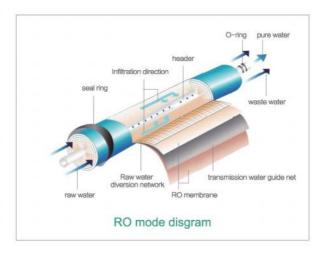




Two-stage RO module

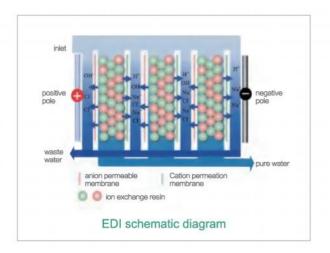


The output pressure of the two-stage booster pump can be automatically adjusted in real time according to the feed water conditions. Depends on feed water quality, our two-stage RO module service life can reach 2-3 years, and the conductivity of RO water will less than 5uS/cm which can protect the EDI module and prolong EDI service life.



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 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

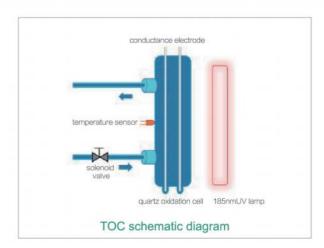
CE and NSF qualified water pumps, low noisy and stable working pressure.

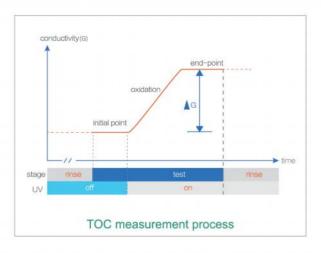
TOC detection module

Total organic carbon(TOC) data will be shown on the screen, evaluated by a built-in real on-line TOC analyzer module with an independent closed oxidation cell that completely oxidizes organic matter to ensure accurate data. TOC level of Type I water is always less than 5ppb(µg/L).



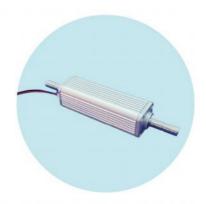








System UV lamp



Pure water UV lamp

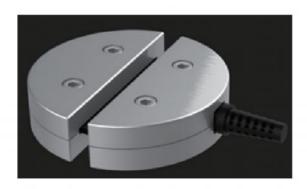
Equipped with Type II pure water 265nm LED UV lamp (mercury-free, eco-friendly) for disinfection. Ensure that the pure water produced has low microbial content, and the microbial content of pure water tank will be less;



Dual wavelength UV lamp

185nm wavelength can oxidize organic compounds.
254nm wavelength can cause microbial DNA damage and has disinfection effect.

Water leakage detector



External water leakage detector



Built-in water leakage detector

Independent water leakage protection, dual-site detection inside and outside the main host, accurate identification of water contact points, distinguish between water source leakage and instrument internal leakage, to ensure the safety of the entire laboratory. Once water leakage detected, 2 seconds after will turns to standby mode automatically.

30/60/100 liters PE water tank

- 254nm UV lamp, works 10 minutes every 1h 50mins to prevent growth of bacteria.
- o 0.2µm inlet air filter to prevent air pollution.
- 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 dispense 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 (Standard)



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 data by connecting your USB.









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

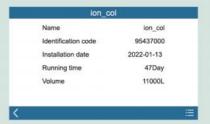
- Easy to place in any clean environment
- Integrated design, easy to clean, prevent the growth of bacteria
- Good chemical stability, suitable for any environmental conditions



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

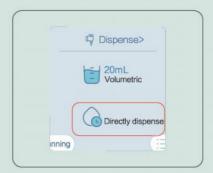


Water quality report viewing and exporting function

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

- o CE and NSF qualified high pressure water pump
- Reverse osmosis membrane, rejection rate 95%
 -99% to remove organic matter, ions and particles.
- 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?

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



-Nova-Smart

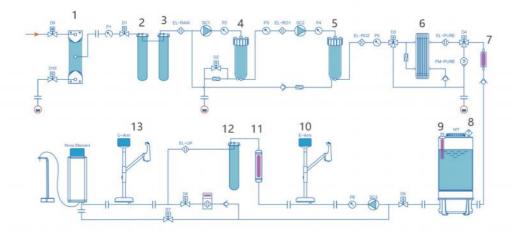


Nova EU10 / Nova EU15 / Nova EU20

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, Pure water UV lamp 265nm
- O Two (Type I & Type II) remote water dispenser arms with touch screen display
- O U-cloud platform for remote monitoring (Wifi module)
- O USB access port for data logging



- 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. Pure water 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



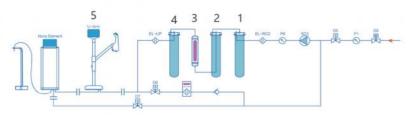


Nova U

Unique features

- o ASTM Type I Ultra purified water system
- o Real on-line TOC analyzer with 185nm UV-lamp inside
- o Dual wavelength UV-lamp 254nm & 185nm
- o 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

ASTM Type I Ultra purified water system



- 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

**		All-in-one system		
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 B*		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
Pure water UV lamp (265nm)		YES		NO
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
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
0.22 μm end filter		YES		YES

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



	All-in-one system	Type I water	
Model	Nova EU10 Nova EU15	Nova EU20	Nova U
Feed water requirements			
Source	Potable tap water	r	Type II water/RO
Conductivity	<2000µS/cm		<100µS/cm
TOC	<1ppm		<50ppb
Hardness*	< 300ppm		0-1ppm
Pressure	0.1~0.4MPa		0~0.4MPa
Temperature	4~45°C		4~45°C
PH	5-9		7/6-8
Total chlorine	<3ppm		//
Residual chlorine	<2ppm		/
SiO ₂	<30ppm		/
Type II high purified water			
Resistivity at 25 C **	15MΩ.cm; typically 10-1		
Conductivity at 25 °C **	0.067μS/cm; typically 0.	lμS/cm	
TOC	<30ppb(μg/L)		
Particulates with size > 0.22µm***	No particles		
Bacteria***	<0.01cfu/mL (<10cfu	ı/L)	
PO rejection	≥99%		N/A
RO rejection			-
EDI ion rejection	≥99%		-
Production flow rate	10L/H 15L/H	20L/H	
Manual control water flow rate	Maximum 2L/min, st	-	of flow rate
Quantitative water dispense range	0.0	1L ~ 60L	
Type I ultra purified water			
Resistivity at 25 °C	11	8.2MΩ.cm	
Conductivity at 25°C		.055µS/cm	
TOC		2ppb(µg/L)	
Particulates with size > 0.22μm ***		lo particles	
Endotoxin (Pyrogens)***		0.001EU/mL	
Bacteria ***			./1.\
Rnase/Dnase ***	<0.010	fu/mL (<10cfu	1/L)
		-	
Proteases ***		:0.15μg/mL	1.60
Manual control water flow rate	Maximum 2L/min,		rol of flow rate
Quantitative water dispense range	().01L ~ 60L	
Electrical requirement			
Electrical voltage	110	V/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	14.3kg
Water dispenser arm	4.1kg/unit		
30L Water tank	10.6kg		
60L Water tank	12.2kg		N/A
OOL Water talk			
	15.0KG		
100L Water tank	13.6kg		
100L Water tank External Dimension (WxDxH)		1)	N/A
100L Water tank External Dimension (WxDxH) Pre-treatment module	180×215×430 (mn		N/A
100L Water tank External Dimension (WxDxH) Pre-treatment module Main host	180×215×430 (mn 330×545×525 (mn	n)	330×420×525 (mm
100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm	180×215×430 (mn 330×545×525 (mr 204×3:	n) 80×714 (mm),	330×420×525 (mm
100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm 30L Water tank	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695(mn	n) 80×714 (mm), n)	330×420×525 (mm
100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm 30L Water tank 60L Water tank	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695(mn 410×410×935(mm	n) 80×714 (mm), n)	330×420×525 (mm
100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm 30L Water tank 60L Water tank 100L Water tank	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695(mn	n) 80×714 (mm), n)	330×420×525 (mm
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	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695(mn 410×410×935(mm	n) 80×714 (mm), n)	330×420×525 (mm
100L Water tank External Dimension (WxDxH) Pre-treatment module Main host Water dispenser arm 30L Water tank 60L Water tank 100L Water tank	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695(mn 410×410×935(mm	n) 80×714 (mm), n)	330×420×525 (mm
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 Accessory	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695(mn 410×410×935(mm	n) 80×714 (mm), n)	330×420×525 (mm
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 Accessory Main host	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695(mn 410×410×935(mn 410×410×1245(mr	n) 80×714 (mm), n)	330×420×525 (mm/unit
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 Accessory	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695(mn 410×410×935(mr 410×410×1245(mr	n) 80×714 (mm), n)	330×420×525 (mm/unit
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 Accessory Main host	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695(mn 410×410×935(mr 410×410×1245(mr	n) 80×714 (mm), n)	330×420×525 (mm/unit
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 Accessory Main host Water dispenser arm	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695 (mr 410×410×935 (mr 410×410×1245 (mr 13kg 33kg 7.5kg/unit	n) 80×714 (mm), n)	330×420×525 (mm/unit
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 Accessory Main host Water dispenser arm 30L Water tank	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695(mn 410×410×935(mr 410×410×1245(mr 13kg 33kg 7.5kg/unit 12.5kg	n) 80×714 (mm), n)	330×420×525 (mm/unit
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 Accessory Main host Water dispenser arm 30L Water tank 60L Water tank	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695(mn 410×410×935(mr 410×410×1245(mr 13kg 33kg 7.5kg/unit 12.5kg 15.1kg	n) 80×714 (mm), n)	330×420×525 (mm/unit
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 Accessory Main host Water dispenser arm 30L Water tank 60L Water tank Packing Dimension (WxDxH)	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695 (mr 410×410×935 (mr 410×410×1245 (mr 13kg 33kg 7.5kg/unit 12.5kg 15.1kg 16kg	n) 00×714 (mm)/ n) n) n)	330×420×525 (mm/unit
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 Accessory Main host Water dispenser arm 30L Water tank 60L Water tank 70L Water tank 60L Water tank 60L Water tank 100L Water tank 70L Water tank	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695(mn 410×410×1245(mr 410×410×1245(mr 13kg 33kg 7.5kg/unit 12.5kg 15.1kg 16kg	n) 00×714 (mm)/ n) n) n)	330×420×525 (mm/unit N/A 24kg N/A N/A
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 Accessory Main host Water dispenser arm 30L Water tank 60L Water tank 60L Water tank 700L Water tank 80L Water tank 90L Water tank 100L Water tank 70L Water tank 70L Water tank 70L Water tank	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695(mn 410×410×935(mr 410×410×1245(mr 13kg 33kg 7.5kg/unit 12.5kg 15.1kg 16kg 400×780×280 (mn 420×630×700 (mn	n) n) n) n0×714 (mm) n) n) n) n)	330×420×525 (mm/unit N/A 24kg N/A N/A 420×630×790 (mm/
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 Accessory Main host Water dispenser arm 30L Water tank 60L Water tank 60L Water tank 100L Water tank 40L Water tank	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695(mn 410×410×935(mr 410×410×1245(mr 13kg 33kg 7.5kg/unit 12.5kg 15.1kg 16kg 400×780×280 (mn 420×630×700 (mn	n) n) 10×714 (mm)/ n) n) n) n) 10 11 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18	330×420×525 (mm/unit N/A 24kg N/A N/A 420×630×790 (mm/
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 Accessory Main host Water dispenser arm 30L Water tank 60L Water tank 60L Water tank 700L Water tank 80L Water tank 90L Water tank 100L Water tank 70L Water tank 70L Water tank 70L Water tank	180×215×430 (mn 330×545×525 (mr 204×33 410×410×695(mn 410×410×935(mr 410×410×1245(mr 13kg 33kg 7.5kg/unit 12.5kg 15.1kg 16kg 400×780×280 (mn 420×630×700 (mn	n) n) 10×714 (mm)/ n) n) n) n) n) 10×780×280 (mr	330×420×525 (mm/unit N/A 24kg N/A N/A 420×630×790 (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 10-15 $M\Omega$.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



-Nova Zero-ion



Nova Zero-ion

Unique features

ppt or sub-ppt ultra purified water

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

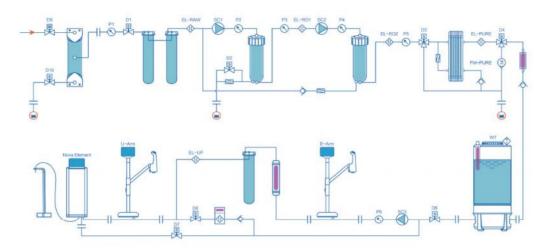
Feed water*	
Resistivity at 25 °C	18.2MΩ.cm
Total Organic Carbon (TOC)	≤5ppb(µg/L)
Performance	
Resistivity at 25 °C	18.2MΩ.cm
Total Organic Carbon (TOC)	≤2ppb(µg/L)
lon content**	<0.1ppt
Flow rate	Up to 2L/min, stepless control
Quantitative water dispense range	0.01L-60L
Size information	
$Dimensions (W \! \times \! D \! \times \! H)$	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

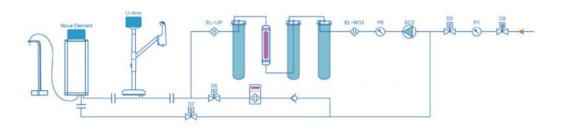


^{**}Verified by end user, analytical technique of trace elements

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 (AI)	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

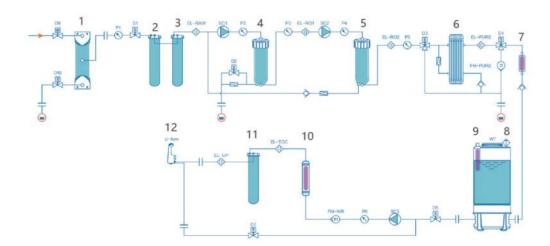


Performa EU10 / Performa EU15 / Performa EU20

Unique features

All-in-one system

- o All-in-one system for ASTM Type I & Type II water/Clinical laboratory reagent water (CLSI)
- o Integrated water dispenser arm
- o On line real time TOC monitoring
- o Dual wavelength UV lamp 254nm & 185nm, Pure water UV lamp 265nm
- O China made EDI self-developed
- © U-cloud platform for remote monitoring (Wifi module)
- USB access port for data logging



- 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. Pure water UV lamp 265nm
- 8. Water tank air filter
- 9. Water tank UV lamp 254nm
- 10. UV lamp 185 & 254 nm
- 11. Ultra purification cartridge
- 12. Type I water dispenser arm

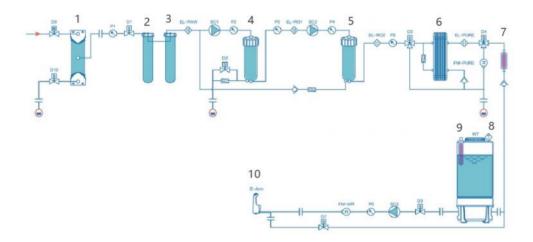


Performa E10 / Performa E15 / Performa E20

Unique features

- o Integrated water dispenser arm
- o China made EDI self-developed
- o U-cloud platform for remote monitoring (Wifi module)
- USB access port for data logging
- O Pure water UV lamp 265nm

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



- 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. Pure water UV lamp 265nm
- 8. Water tank air filter
- 9. Water tank UV lamp 254nm
- 10. Type II water dispenser arm





Performa U

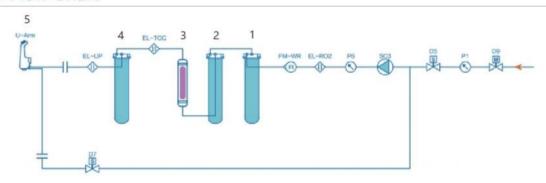
Unique features

ASTM Type I Ultra purified water system

YES YES

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

Water Flow Chart



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

One integrated water dispenser arm 1M water piping from main unit to water dispenser

0.22 µm end filter

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
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	NO	YES
Pure water UV lamp (265nm)	YES	YES	NO
TOC monitoring	VEC	NO.	VEC

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



YES

Model		All-in-one system Performa EU15	Performa EU20	Performa E10	Type II water Performa E15	Performa E20	Type I water Performa U
Feed water requirements						118	
Source		Po	table tap wa	ter			Type II water/RO
Conductivity			<2000µS/cm			-	<100µS/cm
TOC			<1ppm				<50ppb
Hardness*			< 300ppm				0-1ppm
Pressure			0.1~0.4MPa	3			0~0.4MPa
Temperature			4~45°C	2		2	4~45°C
PH	_		5-9			-	7/6-8
Total chlorine			<3ppm				//0-0
Residual chlorine			<2ppm				1
SiO ₂		<30ppm		1			
Type II high purified water							
Resistivity at 25 C **		15ΜΩ	.cm; typically	/10-15MΩ.c	m		
Conductivity at 25 C**			μS/cm; typica				
TOC			<30ppb(µ		0.000		
Particulates with size > 0.22µm***			No parti				****
Bacteria***		<(0.01cfu/mL (<				N/A
RO rejection			≥99%				
EDI ion rejection Production flow rate	101/11	151 /11	≥99%		151 /11	201.//.1	
	10L/H	15L/H	20L/H	10L/H	15L/H	20L/H	
Type I ultra purified water		10.2140					10.2140
Resistivity at 25 °C Conductivity at 25 °C		18.2MΩ.cm 0.055μS/cm					18.2MΩ.cm
TOC		<2ppb(µg/L)		-			0.055μS/cm ≤2ppb(μg/L)
Particulates with size > 0.22µm ***	-	No particles		+	-		No particles
Endotoxin (Pyrogens) ***		<0.001EU/mL			72/070001		<0.001EU/mL
Bacteria ***		1cfu/mL (<10d	fu/L)	N/A		<0.01cfu/mL (<10cfu	
Rnase/Dnase***							Free
Proteases***		<0.15µg/mL					<0.15µg/mL
Manual control water flow rate	Maximum 2L/m	nin, stepless cont	rol of flow rate				Maximum 2L/min, stepless control of flo
Quantitative water dispense range		0.01L~60L		0		- 4	0.01L~60L
Electrical requirement							
Electrical voltage				110V/220			
Electrical frequency				50Hz/	To 2010 1911		
Power				<13	5W		
Size information Net Weight							
Pre-treatment module			5.9	· · ·			N/A
				y	20.21		
Main host with dispenser arm	26.8kg	27.2kg		25.8kg	26.2KG	26.6kg	14 6kg
Main host with dispenser arm 30L Water tank	26.8kg	27.2kg	27.6kg	25.8kg ka	26.2kg	26.6kg	14.6kg
Main host with dispenser arm 30L Water tank 60L Water tank	26.8kg	27.2kg		kg	26.2Kg	26.6kg	CHANN
30L Water tank	26.8kg	27.2kg	27.6kg 10.6	kg !kg	26.2kg	26.6kg	14.6kg N/A
30L Water tank 60L Water tank	26.8kg	27.2kg	27.6kg 10.6 12.2	kg !kg	26.2kg	26.6kg	CHARAC
30L Water tank 60L Water tank 100L Water tank	26.8kg	27.2kg	27.6kg 10.6 12.2	kg Ikg ikg	26.2kg	26.6kg	CHANN
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH)	26.8kg	27.2kg	27.6kg 10.6 12.2 13.6	kg Ikg ikg 430 (mm)	26.2кд	26.6kg	N/A N/A
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host with dispenser arm	26.8kg	27.2kg	27.6kg 10.6 12.2 13.6 180×215×4 330×545×6	kg kg kg kg 430 (mm)	26.2кд	26.6kg	N/A N/A
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host with dispenser arm 30L Water tank	26.8kg	27.2kg	27.6kg 10.6 12.2 13.6 180×215× 330×545× 410×410×	kg kg kg 430 (mm) 605 (mm)	26.2кд	26.6kg	N/A N/A 330×420×605 (mm
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank	26.8kg	27.2kg	27.6kg 10.6 12.2 13.6 180×215× 330×545× 410×410× 410×410×	kg kg kkg 430 (mm) 605 (mm) 695 (mm) 935 (mm)	26.2kg	26.6kg	N/A
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank	26.8kg	27.2kg	27.6kg 10.6 12.2 13.6 180×215× 330×545× 410×410×	kg kg kkg 430 (mm) 605 (mm) 695 (mm) 935 (mm)	26.2kg	26.6kg	N/A N/A 330×420×605 (mm
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information	26.8kg	27.2kg	27.6kg 10.6 12.2 13.6 180×215× 330×545× 410×410× 410×410×	kg kg kkg 430 (mm) 605 (mm) 695 (mm) 935 (mm)	26.2kg	26.6kg	N/A N/A 330×420×605 (mm
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information Gross Weight	26.8kg	27.2kg	27.6kg 10.6 12.2 13.6 180×215× 330×545× 410×410× 410×410× 410×410×1	kg kg kkg 430 (mm) 605 (mm) 695 (mm) 935 (mm) 245 (mm)	26.2kg	26.6kg	N/A N/A 330×420×605 (mm
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information Gross Weight Accessory	26.8kg	27.2kg	27.6kg 10.6 12.2 13.6 180×215× 330×545× 410×410× 410×410× 410×410× 13kg	kg kg kg 605 (mm) 605 (mm) 695 (mm) 935 (mm) 245 (mm)	26.2kg	26.6kg	N/A N/A 330×420×605 (mm
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information Gross Weight Accessory Main host with dispenser arm	26.8kg	27.2kg	27.6kg 10.6 12.2 13.6 180×215× 330×545× 410×410× 410×410× 410×410× 13kg 36kg	kg kg kg kg 430 (mm) 605 (mm) 695 (mm) 935 (mm) 245 (mm)	26.2kg	26.6kg	N/A N/A 330×420×605 (mm
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information Gross Weight Accessory Main host with dispenser arm 30L Water tank	26.8kg	27.2kg	27.6kg 10.6 12.2 13.6 180×215× 330×545× 410×410× 410×410× 410×410× 13kg 36kg 12.5	kg kg kg 605 (mm) 605 (mm) 695 (mm) 935 (mm) 245 (mm)	26.2kg	26.6kg	N/A N/A 330×420×605 (mm
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information Gross Weight Accessory Main host with dispenser arm 30L Water tank 60L Water tank	26.8kg	27.2kg	27.6kg 10.6 12.2 13.6 180×215× 330×545× 410×410× 410×410× 13kg 36kg 12.5lg 15.1l	245 (mm) 245 (mm) 245 (mm)	26.2kg	26.6kg	N/A N/A 330×420×605 (mm
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information Gross Weight Accessory Main host with dispenser arm 30L Water tank 60L Water tank	26.8kg	27.2kg	27.6kg 10.6 12.2 13.6 180×215× 330×545× 410×410× 410×410× 410×410× 13kg 36kg 12.5	245 (mm) 245 (mm) 245 (mm)	26.2kg	26.6kg	N/A N/A 330×420×605 (mm
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information Gross Weight Accessory Main host with dispenser arm 30L Water tank 60L Water tank 60L Water tank 40L Water tank 70L Water tank 70L Water tank 70L Water tank 70L Water tank	26.8kg	27.2kg	27.6kg 10.6 12.2 13.6 180×215× 330×545× 410×410× 410×410× 13kg 36kg 12.5i 15.1i	kg kg kkg 430 (mm) 605 (mm) 695 (mm) 935 (mm) 245 (mm)	26.2kg	26.6kg	N/A N/A 330×420×605 (mm N/A 24kg N/A
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information Gross Weight Accessory Main host with dispenser arm 30L Water tank 60L Water tank 60L Water tank 60L Water tank 60L Water tank 70L Water tank 100L Water tank 100L Water tank Packing Dimension (WxDxH) Accessory	26.8kg	27.2kg	27.6kg 10.6 12.2 13.6 180×215× 330×545× 410×410× 410×410×1 13kg 36kg 12.55 15.11 16kg	kg kg kg kkg 430 (mm) 605 (mm) 695 (mm) 935 (mm) 245 (mm)	26.2kg	26.6kg	N/A N/A 330×420×605 (mm N/A 24kg N/A
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information Gross Weight Accessory Main host with dispenser arm 30L Water tank 60L Water tank 60L Water tank 40L Water tank 70L Water tank 70L Water tank 70L Water tank 70L Water tank	26.8kg	27.2kg	27.6kg 10.6 12.2 13.6 180×215× 330×545× 410×410× 410×410× 13kg 36kg 12.5i 15.1i	kg kg kg kg kg kg 430 (mm) 605 (mm) 935 (mm) 245 (mm) 245 (mm) 245 (g g g g	26.2kg	26.6kg	N/A N/A 330×420×605 (mm N/A 24kg N/A
30L Water tank 60L Water tank 100L Water tank External Dimension (WxDxH) Pre-treatment module Main host with dispenser arm 30L Water tank 60L Water tank 100L Water tank Packing information Gross Weight Accessory Main host with dispenser arm 30L Water tank 60L Water tank 60L Water tank 60L Water tank 70L Water tank 70L Water tank 70L Water tank 80L Water tank 100L Water tank 100L Water tank 100L Water tank Packing Dimension (WxDxH) Accessory Main host with dispenser arm	26.8kg	27.2kg	27.6kg 10.6 12.2 13.6 180×215× 330×545× 410×410× 410×410×1 13kg 36kg 12.5i 15.1i 16kg 400×780× 420×630×	kg kg kg kg kg 605 (mm) 695 (mm) 935 (mm) 245 (mm) 245 (mm) 29 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	26.2kg	26.6kg	N/A N/A 330×420×605 (mm N/A 24kg 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 10-15MQ.cm at 25 °C, Conductivity typically 0.1µS/cm, at 25 °C
***Feed water quality should meet above requirements and purified water through the remote water dispenser with end filter



—Classic

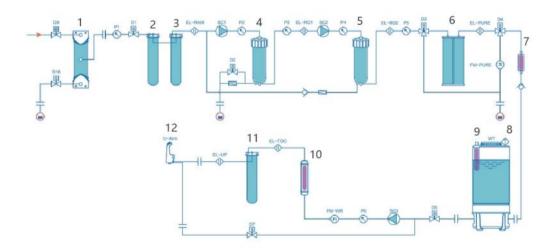


Classic DU15 / Classic DU20 / Classic DU25

Unique features

All-in-one system

- o ASTM Type I & Type II water/Clinical laboratory reagent water (CLSI)
- o On line real time TOC monitoring
- o Dual wavelength UV lamp 254nm & 185nm, Pure water UV lamp 265nm
- o U-cloud platform for remote monitoring (Wifi module)
- o DI resin module
- USB access port for data logging



- 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. DI module
- 7. Pure water UV lamp 265nm
- 8. Water tank air filter
- 9. Water tank UV lamp 254nm
- 10. UV lamp 185 & 254 nm
- 11. Ultra purification cartridge
- 12. Type I water dispenser arm



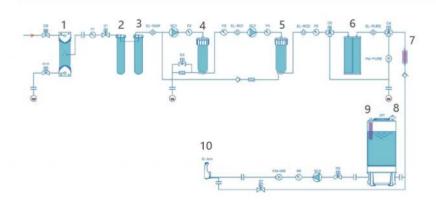


Classic D15 / Classic D20 / Classic D25

Unique features

- o Integrated water dispenser arm
- © U-cloud platform for remote monitoring (Wifi module)
- o DI resin module
- USB access port for data logging
- o Pure water UV lamp 265nm

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



- 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. DI module
- 7. Pure water UV lamp 265nm
- 8. Water tank air filter
- 9. Water tank UV lamp 254nm
- 10. Type II water dispenser arm

Main configurations	All-in-one system			Type II water			
main configurations	DU15	DU20	DU25	D15	D20	D25	
Pre-treatment module		YES			YES		
Main host		YES YES		YES			
Pre-guard cartridge A		YES		YES			
Pre-guard cartridge B		YES			YES		
Two-stage Reverse Osmosis		YES			YES		
DI resin		YES		YES			
Water tank; stepless water level sensor		YES		YES			
254nm UV light of water tank		YES		YES			
Inlet air filter of water tank	YES		YES YES		YES		
Water leakage protection sensor	YES			YES			
TOC monitoring	YES			NO			
Dual wavelength (254nm & 185nm)UV-lamp	YES				NO		
Pure water UV lamp (265nm)	YES				YES		
Ultra purification cartridge B	YES		B YES			NO	
One integrated water dispenser arm		YES			YES		
0.22 μm end filter		YES			YES		

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



Model		All-in-one syste	em		Type II water	0
Woder	DU15	DU20	DU25	D15	D20	D2
Feed water requirement						
Source				le tap water		
Conductivity				000μS/cm		
TOC				1ppm		
Hardness* Pressure				~0.4MPa		
Temperature				~45°C		
PH	_			5-9		
Total chlorine				3ppm		
Residual chlorine				2ppm		
SiO ₂				30ppm		
Type II high purified water				soppin		
Resistivity at 25 C **			>8MΩ.cm; tvp	ically 10-15MΩ.cm	1	
Conductivity at 25 C **				lly 0.1μS/cm		
TOC				ppb(μg/L)		
Particulates with size > 0.22µm***				1pc/µL		
Bacteria***				mL (<10cfu/L)		
RO rejection				≥99%		
EDI ion rejection		7	Name and Address of the Owner, when the Owner, which the Owner, whi	≥99%		
Production flow rate	15L/H	20L/H	25L/H	15L/H	20L/H	25L/H
Type I ultra purified water						
Resistivity at 25 °C		18.2MΩ.cm				
Conductivity at 25 °C	9	0.055µS/cm				
TOC		≤2ppb(µg/L)				
Particulates with size > 0.22µm ***		No particles				
Endotoxin (Pyrogens) ***		<0.001EU/mL			N/A	
Bacteria ***	<0.0	01cfu/mL (<10cfu	/L)			
Rnase/Dnase***		-				
Proteases***	M	<0.15µg/mL	1 - 6 61			
Manual control water flow rate	Maximum 2L/	min, stepless contro 0.01L ~ 60L	or flow rate			
Quantitative water dispense range		0.01L ~ 60L				
Electrical requirement			4.401//2	2014 - 1004		
Electrical voltage Electrical frequency				20V ±10%		
Power				z/60Hz 35W		
Size information				3344		
Net Weight						
Pre-treatment module	-		5	5.9kg		
Main host with dispenser arm		25.6kg		3	24.6kg	
30L Water tank			10	0.6kg		
60L Water tank				2.2kg		
100L Water tank				3.6kg		
External Dimension (WxDxH)						
Pre-treatment module			180×215	×430 (mm)		
Main host with dispenser arm	330×545×605 (mm)					
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					
Main host with dispenser arm	36kg					
30L Water tank	12.5kg					
60L Water tank				15.1kg		
100L Water tank Packing Dimension (WxDxH)	_			16kg		
Packing Himphsing (WVIIVH)	-		400	200 /		
	400×780×280 (mm)					
Accessory			420×630×790 (mm)			
Accessory Main host with dispenser arm						
Accessory			420×420	×790 (mm) ×770 (mm) ×1010 (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\Omega.cm at 25 \(\Circ\), Conductivity typically 0.1\(\mu\)S/cm, at 25 \(\Circ\)

*** Feed water quality shoud meet above requirements and purified water through the remote water dispenser with end filter



-TITAN



Nova C300 / Nova C500 / Classic C300 / Classic C500

Nova-Unique features

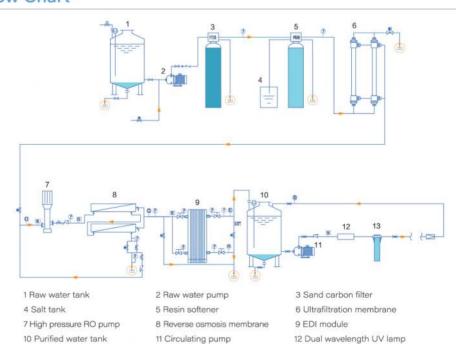
- o EDI and water pumps original imported
- ASTM Type II / Type I purified water system
- O Pre-treatment module
- o 500L stainless steel water tank
- o Productivity rate 300L/500L
- o TFT touch screen controller
- U-cloud platform for remote monitoring (Wifi module)
- o USB access port for data logging

13 Pipeline filter

Classic-Unique features

- China made high quality customized
 EDI and pumps
- o ASTM Type II / Type I purified water system
- Pre-treatment module
- o 500L stainless steel water tank
- Productivity rate 300L/500L
- o 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						
Pre-treatment module	Raw water pump	All water pumps are original					
	Sand carbon filter						
	Salt tank and Resin softener			China made high quality water pumpEDI self-developed			
	Ultrafiltration membrane						
Main system	High pressure water pump	imported, qualified by CE and					
	Reverse osmosis membrane	NSF • EDI so					
	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)

	THE VIEW		Central high purified water system				
Model		Nova C300	Nova C500	Classic C300	Classic C50		
Feed water requirement	Source	Potable tap water					
	Conductivity	<2000µS/cm					
	TOC	<1ppm					
	Hardness*	<450ppm as CaCO ₃					
	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 °C **		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					
Net weight	Pre-treatment module	200kgs					
	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					
Packing gross weight	Pre-treatment module	240kgs					
	Main host	430kgs					
	500L water tank	57.5kgs					
2000 100Pen 1900 Pk	Pre-treatment module	1650×840×710(mm)					
Packing dimension (HxWxL)	Main host	1900×1200×830(mm)					
(HXVVXL)	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

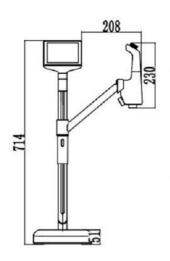


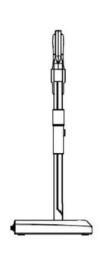
^{**} Resistivity Typically 10-15M Ω .cm at 25 °C , Conductivity typically 0.1 μ S/cm, at 25 °C

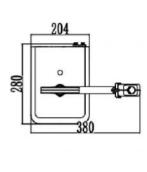
^{***} Instantaneous demand, water pressure 0.15-0.35MPa

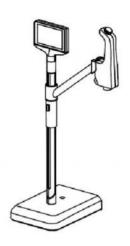
$Installation \ information$

Dispenser Arm-Nova-Smart

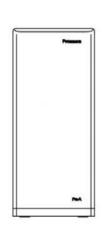


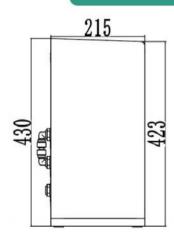




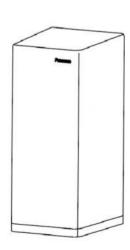


Pretreatment module-All models

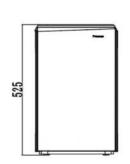


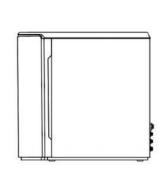


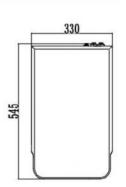


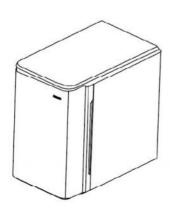


Nova series all-in-one machine



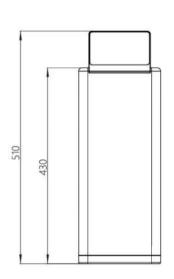


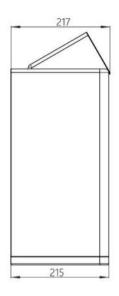


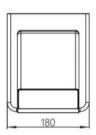


$Installation \ information$

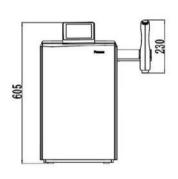
Nova Zero-ion

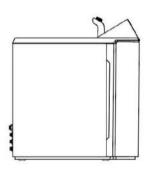


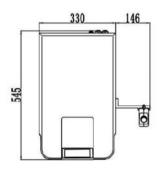


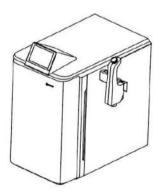


Performa serie All-in-one system Classic serie All-in-one system Classic series Type II water system



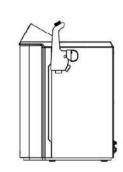


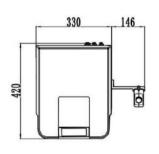




Performa U

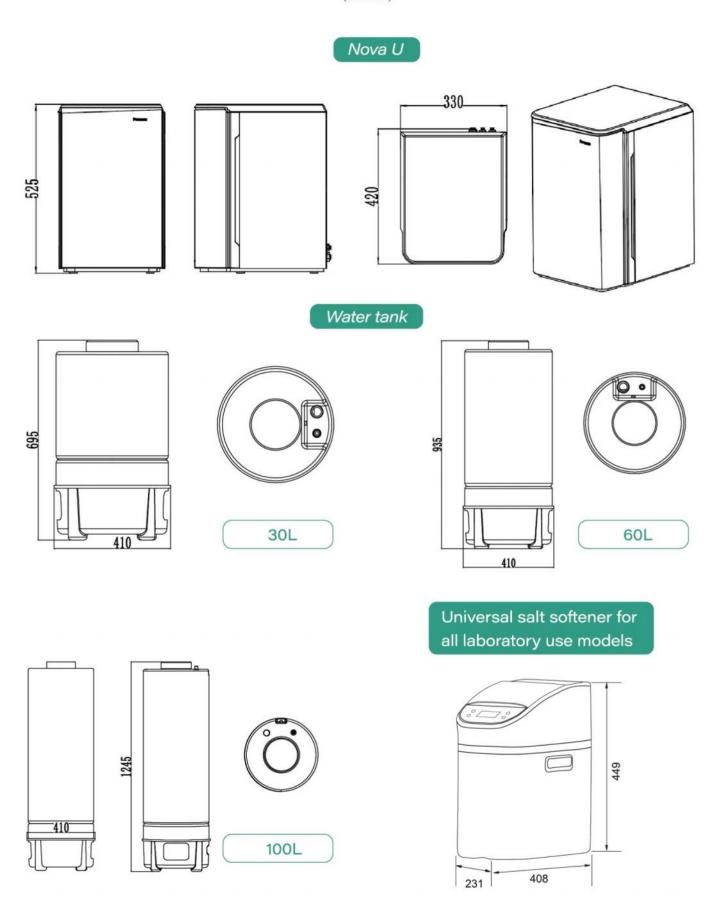






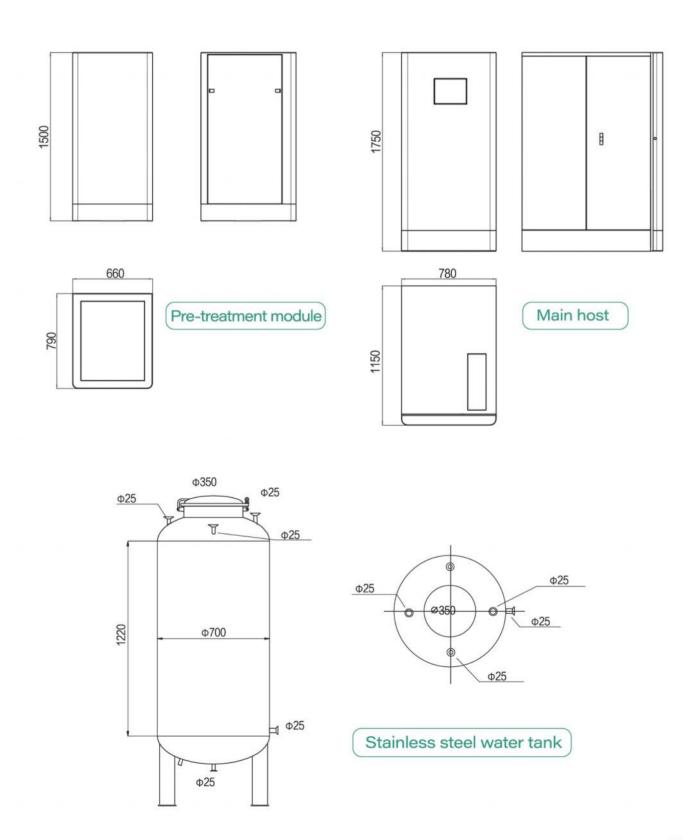


Installation information

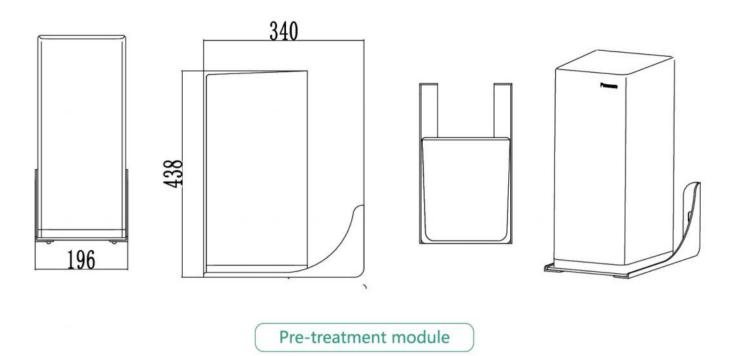


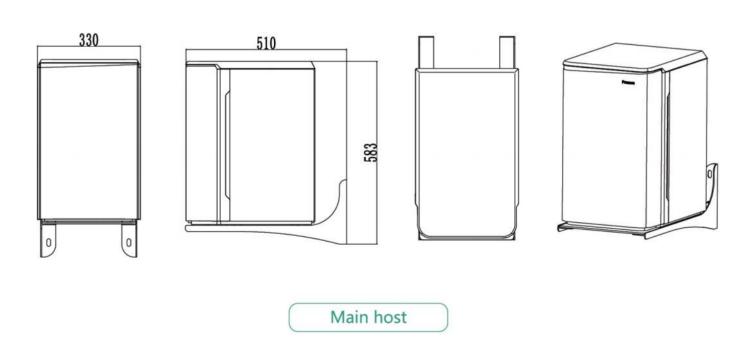
$Installation \ information$

Central high purified water system



Wall-mounted installation







Qingdao Innova Bio-Meditech Co., Ltd.

add.: No. 11 ZaoYuan Road, 266121, Qingdao, China

Tel.: +86 532 8789 0634

Email: info@innobiomed.com
Web: www.innovabiomed.com