

Super Water Purification System

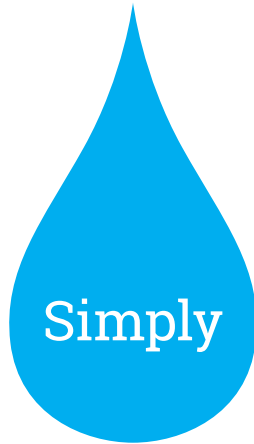
aquapuri⁵
s Water Purification System

Tankless! Purest! Fastest!
Super Water Purification System





- Produce Ultra-pure water directly from tap water without tank. (60 L/h)



- A simple and easy to use method with LCD Touch Screen
- Easy filter replacement



- A sanitary management without Tank

aquapuri⁵
Water Purification System



WHY aquapuri 5 *s*WPS ?

It's realtime!

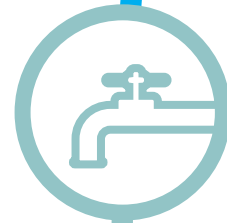
Unique *s*WPS

Apply tankless system for the industry's first
High space utilization with compact size



Innovative Technology

Produce high quality ultra pure water directly from tap water
Easily set production volume (0.1 to 60 L)



Simple to Use

All products with Full Color LCD Touch Screen
Real-time water quality data monitoring



Ergonomic Design

No need any tools with magnetic door
Easy filter replacement with insert type



Best & Best

Provide the high quality ultra pure water
Reasonable maintenance fee



aquapuri 5 series special feature



• Slide type Handy

• One-button Handy

Easy operation with one button



• Insert type Filter

Easy filter replacement



Dispenser

Extendable up to 2m



A convenient operation and management using touch screen

- Set the status of operation and stop
- Filter life cycle monitoring / replacement alert
- Auto flush function for filter cleaning
- Check real time filter usage
- Click the center filter button to be exchangeable all filters at once
- Mode of a continuous production
- Go to the production volume setting screen
- Choice of the production type One Touch Setting
- Display of water quality, temperature and TOC value of production water
- Selectable the factor of resistivity / conductivity

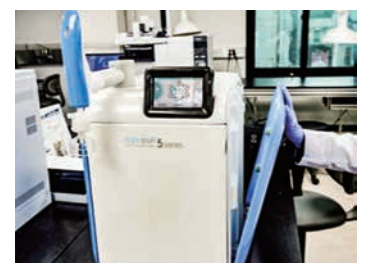
USB Port

Data storage using USB Printable (The back of the main body)



Magnetic Door

Easy maintenance and filter replacement

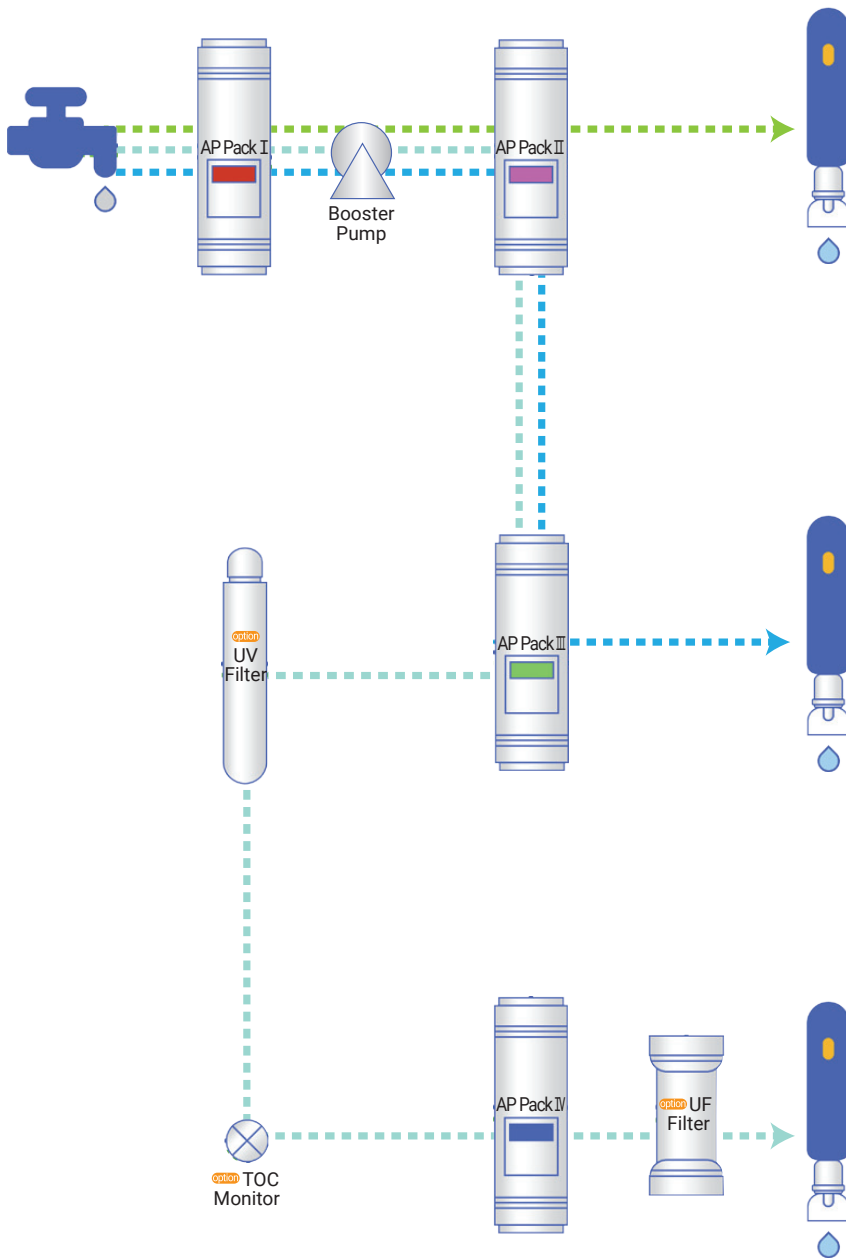


Selection Guide

Application		Glassware washing	Pure water, feed water for ultrapure water	Manufacture standard and buffer solution	For general analyzer	Organic and inorganic trace level analysis	Mammalian cell culture	Molecular	
							Recombinant DNA	PCR	
							Electrophoresis gel	2D Electrophoresis	
							Production of monoclonal antibodies	Important cell culture research	
TypeII	aquapuri 363		v						
TypeIII	aquapuri 511	v							Tap water
TypeII	aquapuri 521		v						Tap water
TypeI	aquapuri 532			532	532 UV	532 UF	532 VF	(Type II)	
TypeI / TypeIII	aquapuri 541	v		541	541 UV	541 UF	541 VF	Tap water	
TypeI / TypeII	aquapuri 551		v	551	551 UV	551 UF	551 VF	Tap water	
Product water type	Model	Type III	Type II	TypeI					Feed water
				TOC	< 10 ppb	< 5 ppb	< 10 ppb	< 5 ppb	
				TOC Monitor		v		v	
			Endotoxin				<0.001 EU/mL	<0.001 EU/mL	



Flow System for aquapuri



Type I water
Production Flow

Type II water
Production Flow



Type III water
Production Flow

Specification

Single type

Model	363	511	521	532series*
				
Product No.	5203631000	5111011000	5211011000	5321011000
Product water type	Type II, Type III	Type III	Type II, Type III	Type I
Delivery flow rate	20 L/h	60 L/h	60 L/h	120 L/h
Resistivity (@25 °C)	$\geq 10 \text{ M}\Omega \cdot \text{cm}$	-	$\geq 10 \text{ M}\Omega \cdot \text{cm}$	$\geq 18.2 \text{ M}\Omega \cdot \text{cm}$
Conductivity (@25 °C)	0.1 $\mu\text{S}/\text{cm}$	< 10 $\mu\text{S}/\text{cm}$	0.1 $\mu\text{S}/\text{cm}$	0.055 $\mu\text{S}/\text{cm}$
TOC**	-	-	-	3~10 ppb
Endotoxin***	-	-	-	< 0.001 EU/ml
Inorganic elements (Boron)	-	-	-	Not detected

Integrated type

Model	541series	551series
		
Product No.	5411011000	5511011000
Product water type	Type I, III	Type I, II
Delivery flow rate	60 L/h	60 L/h
Resistivity (@25 °C)	$\geq 18.2 \text{ M}\Omega \cdot \text{cm}$	$\geq 18.2 \text{ M}\Omega \cdot \text{cm}$
Conductivity (@25 °C)	0.055 $\mu\text{S}/\text{cm}$	0.055 $\mu\text{S}/\text{cm}$
TOC**	3~10 ppb	3~10 ppb
Endotoxin***	< 0.001 EU/ml	< 0.001 EU/ml
Inorganic elements (Boron)	Not detected	Not detected

* (option) : RO and ionized water are required as feed water for the 532 model, ** (option) : <5 ppb with UV, *** (option) : with UF

System specifications

Size(mm)	370(W) × 470(D) × 470(H)
Product weight(kg)	29~30
Set weight(kg)	34~35
Weight including exterior pump(kg)	32

Consumable

aquapuri 5 series Filter List



AP Pack I
(Active carbon)



AP Pack II
(Reverse Osmosis)



AP Pack III
(Ion Exchange)



AP Pack IV
(Ion Exchange)



Final Filter

aquapuri 363 Filter List



AP 363 Pack I
(Active carbon)



AP 363 Pack II
(Reverse Osmosis)



AP 363 Pack III
(Ion Exchange)

Consumable ordering guide

Description	Usage	Part No.
AP 363 Pack I (PRE)	Remove particles over 5µm, Reverse osmosis cartridge protection, Remove chlorine from tap water	5002011013
AP 363 Pack II (MEMBRANE)	Purification by reverse osmosis method	5002011023
AP 363 Pack III (POST)	Remove both cation and anion	5002011033
AP 363 Pack I,II, III Set	Remove germ and organics removal	5002013000
AP Pack I	Remove particles over 5µm, Reverse osmosis cartridge protection, Remove chlorine from tap water	5002011010
AP Pack II	Purification by reverse osmosis method	5002011020
AP Pack III	Remove both cation and anion	5002011030
AP Pack IV	Filter for manufacturing ultrapure water	5002011040
Final Filter	0.2µm final filter / contamination prevention	5001012830
UV Lamp	185 nm, 254 nm wavelength light source	5001012811
AP Pack I (TOC)	For TOC Filter : 532 UV, 532 VF, 541 UV, 541 VF, 551 UV, 551 VF	5002011011
AP Pack III (TOC)		5002011031
AP Pack IV (TOC)		5002011041
UF Filter	Remove microbes and germ	5001012820

Validation Service

Part No.	Service
9001011005	WPS [IQ, OQ, PQ] Validation (aquapuri)

Residual inorganic elemental analysis for ultrapure water produced in aquapuri 551 UV

Result & Analysis

Analysis method : Drinking water analytical method

Instrument : Agilent 7900s ICP-MS

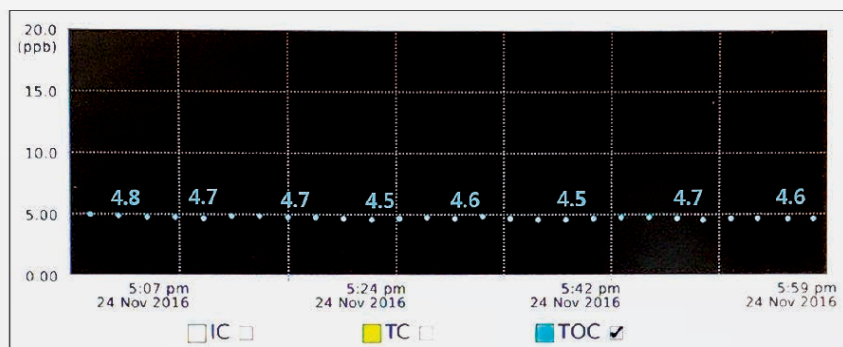
Analysis sample : Ultrapure water produced by aquapuri 551UV

Analysis result (Conc [ppb])

Ag (silver)	< 1.0 ppb	K (Potassium)	< 1.0 ppb
Al (Aluminium)	< 1.0 ppb	Li (Lithium)	< 1.0 ppb
As (Arsenic)	< 1.0 ppb	Mg (Magnesium)	< 1.0 ppb
Au (Gold)	< 1.0 ppb	Mn (Manganese)	< 1.0 ppb
B (Boron)	< 1.0 ppb	Mo (Molybdenum)	< 1.0 ppb
Ba (Barium)	< 1.0 ppb	Na (Sodium)	< 1.0 ppb
Be (Beryllium)	< 1.0 ppb	Ni (Nickel)	< 1.0 ppb
Bi (Bismuth)	< 1.0 ppb	Pb (Lead)	< 1.0 ppb
Ca (Calcium)	< 1.0 ppb	Pd (Palladium)	< 1.0 ppb
Cd (Cadmium)	< 1.0 ppb	Pt (Platinum)	< 1.0 ppb
Co (Cobalt)	< 1.0 ppb	Sb (Antimony)	< 1.0 ppb
Cr (Chromium)	< 1.0 ppb	Sn (Tin)	< 1.0 ppb
Cu (Copper)	< 1.0 ppb	Sr (Strontium)	< 1.0 ppb
Fe (Iron)	< 1.0 ppb	Ti (Titanium)	< 1.0 ppb
Ga (Gallium)	< 1.0 ppb	Tl (Thallium)	< 1.0 ppb
Ge (Germanium)	< 1.0 ppb	V (Vanadium)	< 1.0 ppb
Hg (Mercury)	< 1.0 ppb	Zn (Zinc)	< 1.0 ppb
In (Indium)	< 1.0 ppb	Zr (Zirconium)	< 1.0 ppb

As a result of analysis using ICP-MS, the concentration of all elements analyzed by drinking water analytical method is less than 1 ppb.

TOC Trend Graph of aquapuri 551



TOC data by The Sievers TOC analyzer

Range : 0~20 ppb

Temperature : 5 °C ~ 40 °C (41 °F ~ 104 °F)

FILTER REPLACEMENT

- When filter replacement time arrives, the Filter Bar on the display will show a red light.
- At the time, please replace the filter according to the following procedure.

FILTER REPLACEMENT INSTRUCTIONS

- 1) If you select the filter you want to install or replace, the setting button of the corresponding filter is activated on the right side of the display.
- 2) If you touch [Filter Change] button of the Filter setting screen, "Pressure Down" is executed automatically.
- 3) When the pressure down is completed, the "Filter Change" window pops up (Don't press the OK button!)

At this time, open the panel and replace the filter.

- A. It is the picture when the front panel is opened, the filters are fixed to the filter guard.
- B. When removing the filter, use both hands to pull it forward from the bottom to remove it, then pull it forward to remove it.
- C. AP Pack I, III and IV Filters are removed (from left to right, AP Pack I, III, IV, AP Pack II is located in the right panel)
- D. When attaching the filter, fit the protrusion of the filter to the filter joint inside the device and combine it from the bottom side and then join the upper side.
- E. Finally, press down firmly with your hand to fully engage the top and bottom joints of the Filter. And the filter guard is also reassembled.



(A)



(B)



(C)

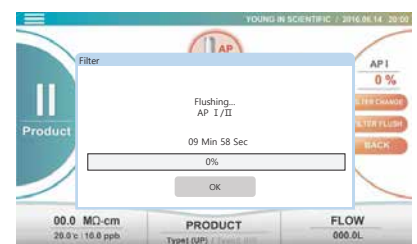
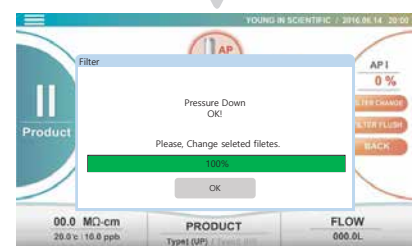
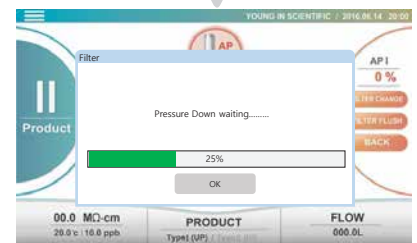
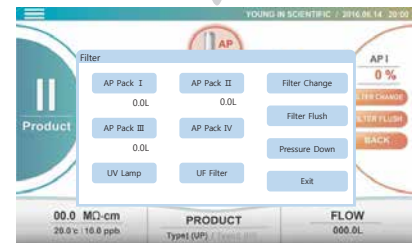
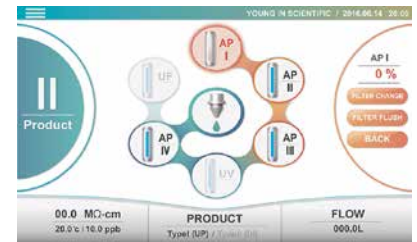


(D)



(E)

- 4) When you touch the [OK] button after replacing the filter, Filter flush is automatically rerunning.



Precautions

- Before replacing the filter, be sure to perform the pressure down completely before replacing the filter.
- If the filter is forcibly removed without fully removing the filter pressure, there is a danger that the filter may burst due to the high water pressure inside the device.
- Please note that if the unit is operated with the filter guard released, the same dangerous situation will occur.



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