

Water Purification System
aquapuri 5 series
The Most In-demand WPS in Your Lab



aquapuri 5

s Water Purification System

In laboratories, there are multiple needs of pure/ultra-pure water depending on various usage, and it's important to provide proper purity of water with superior productivity for efficient utilization.

In this sense, a water purification system (WPS), is the most fundamental instrument that requires the best efficiency for your laboratory.

aquapuri 5 series satisfy all of your needs with a versatile product range while ensuring excellent water quality and user-friendly operation. The tank-less integrated models (541/551 series) produce Type I grade water from tap water by eliminating the possibility of tank contamination.

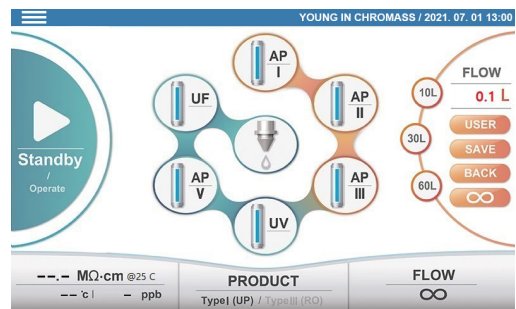


aquapuri at a Glance



Tank-less System

- Minimized contamination
- Space-saving



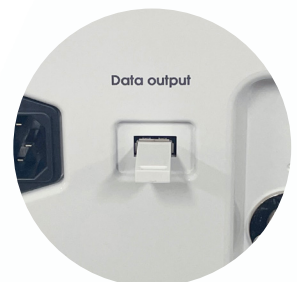
Intuitive Touch LCD

- Easy to control
- Intuitive status check (filter lifetime, water quality, etc.)



Simple Maintenance

- Tool-free replacement of filter
- Magnetic doors for easy access



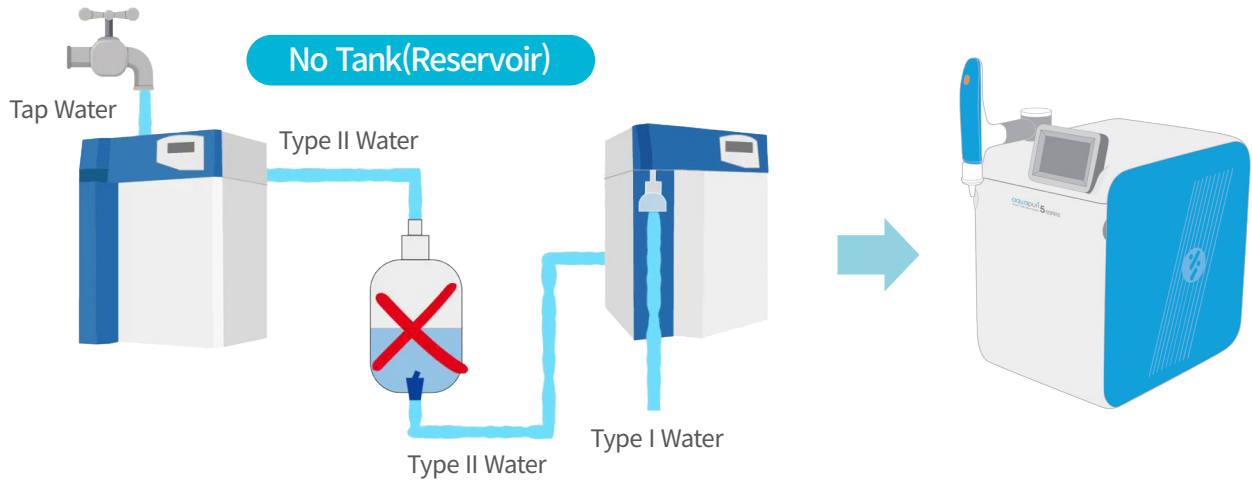
User Convenience

- Extendable dispenser up to 2 m (option)
- Data export via USB
- Single button dispenser

The Most In-demand WPS in Your Lab

No Tank, No Contamination

Unlike the traditional WPS, the integrated WPS (aquapuri 541/551 series) requires neither a water reservoir nor a Type II grade WPS to produce ultrapure water. It eliminates the possibility of secondary contamination and taking up much space to efficiently utilize the WPS.



Intuitive Touch LCD

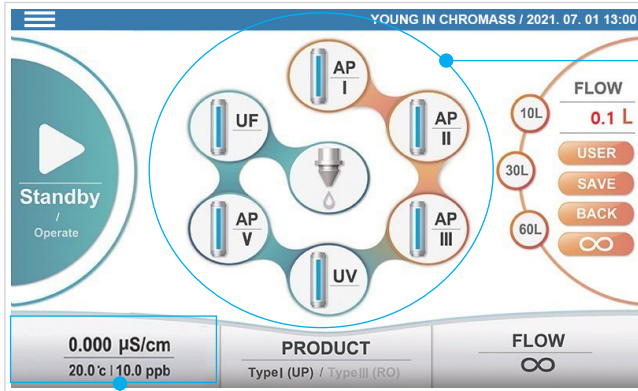
Intuitive touch-screen interface allows you to manage all parameters at a glance for easy operation at your fingertip. This enhances the efficiency and productivity to get pure/ultrapure water faster and easier.

The screenshot shows the touch LCD interface of the aquapuri 551 VF Water Purification System. The interface is divided into several sections:

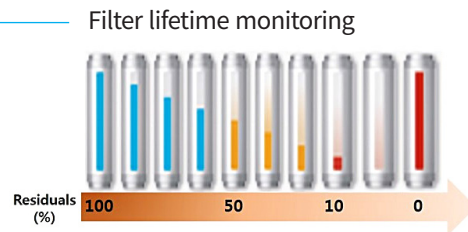
- Menu:** Located at the top left, represented by a hamburger menu icon.
- Date & Time:** Located at the top right, displaying "YOUNG IN CHROMASS / 2021. 07. 01 13:00".
- Current Status:** A large play button icon with "Standby / Operate" text below it.
- Product Water Quality:** Displays "0.000 $\mu\text{S}/\text{cm}$ " and "20.0 c | 10.0 ppb".
- Product Water Grade:** Displays "PRODUCT" and "Type I (UP) / Type III (RO)".
- Model Name:** Displays "aquapuri Water Purification System 551 VF".
- Production Volume:** A circular gauge showing "FLOW" and "000.0 L".
- Control Panel:** A set of buttons for "USER", "SAVE", "BACK", and a power icon, along with volume selection buttons for "10L", "30L", and "60L".
- Process Flow:** A central diagram showing the purification stages: UF, AP I, AP II, AP III, AP V, and UV.

Real-Time Monitoring

aquapuri 5 WPS monitors resistivity (or conductivity) with temperature in real-time for you to keep tracking the water quality. In the flow diagram, the lifetime of each filter is indicated by color so you can be ready for the filter replacement.



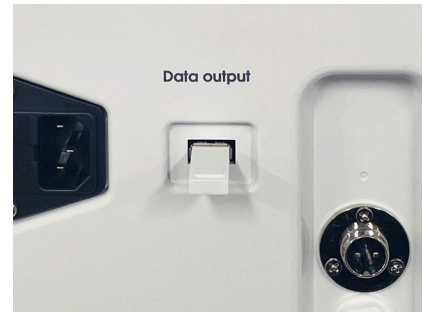
Real-time monitoring of resistivity (or conductivity) and TOC level with temperature



Filter lifetime monitoring

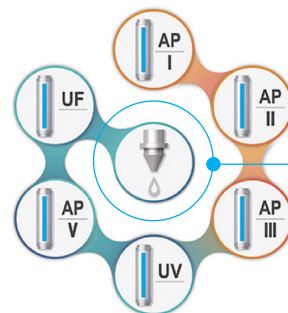
User Convenience

With a built-in single button dispenser, you can easily start/stop producing pure water by production volume. Optional extendable dispenser can be added to enhance the laboratory efficiency.



Tool-Free Maintenance

Magnetic-type doors applied to the front and both sides allow you easy access for maintenance. Insert-type filters make the filter replacement much easier with no tools.

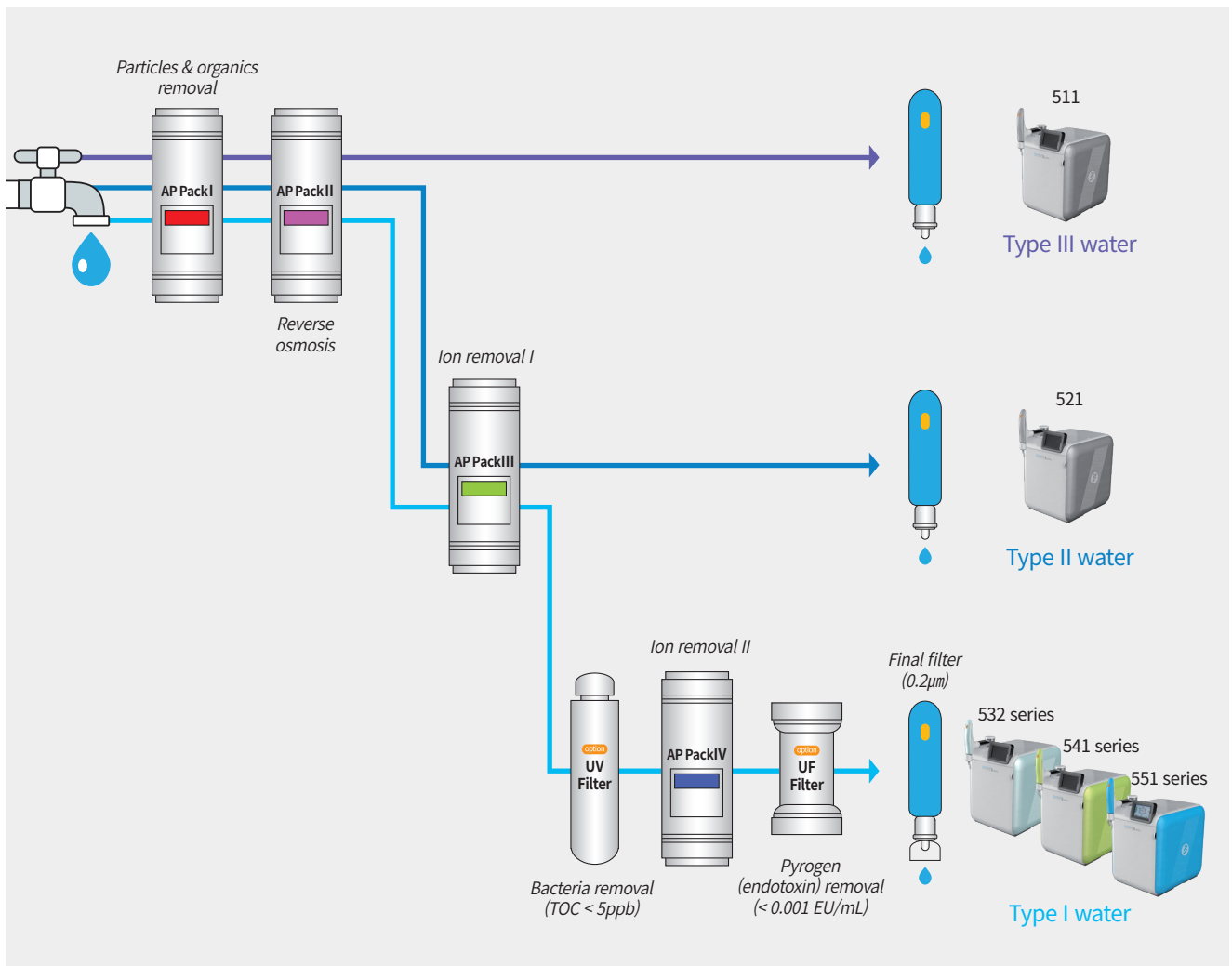


Filter replacement in batch




Selection Guide

Applications	<ul style="list-style-type: none"> • Washing/Rinsing • Autoclaves • Steam generators 	<ul style="list-style-type: none"> • Buffer/Media prep. • Electrophoresis • Feed water for Ultra-pure water 	<ul style="list-style-type: none"> • Reagents • General analysis (IC, AAS, HPLC, ICP-MS) • Standard solvents 	<ul style="list-style-type: none"> • Ultra-trace inorganic/organic analysis • GC-MS/TOC analysis 	<ul style="list-style-type: none"> • Mammalian cell culture • DNA sequencing • Monoclonal antibody production 	<ul style="list-style-type: none"> • PCR • 2-Dimensional electrophoresis • Cell culture
Water Grade	Type III (R.O. water)	Type II (D.I. water)	Type I (Ultrapure water)			
Models	511 541 series	521 551 series	532 series 541 series 551 series	532UV 541UV 551UV	532UF 541UF 551UF	532VF 541VF 551VF

The Flow Diagram of aquapuri WPS



Specification

		511	521	532 Series*
Model				
Resistivity (@25°C)		≥ 10 MΩ·cm	≥ 10 MΩ·cm	≥ 18.2 MΩ·cm
Conductivity (@25°C)		≤ 0.1 μs/cm	≤ 0.1 μs/cm	≤ 0.055 μs/cm
Product Type		Type III	Type II	Type I
Product Volume		60 L/h	60 L/h	120 L/h
TOC	Standard, UF	-	-	3~10 ppb
	UV, VF	-	-	< 5 ppb
Endotoxin**		-	-	< 0.001 EU/mL

		541 series	551 series
Model			
Resistivity (@25°C)		≥ 18.2 MΩ·cm	≥ 18.2 MΩ·cm
Conductivity (@25°C)		≤ 0.055 μs/cm	≤ 0.055 μs/cm
Product Type		Type I, III	Type I, II
Product Volume		60 L/h	60 L/h
TOC	Standard, UF	3~10 ppb	3~10 ppb
	UV, VF	< 5 ppb	< 5 ppb
Endotoxin**		< 0.001 EU/mL	< 0.001 EU/mL

* Type II water is required as a feed water

** Endotoxin control only with UF, VF options



60, Anyangcheondong-ro, Dongan-gu, Anyang-si,
Gyeonggi-do, 14042, Korea
TEL : +82-31-428-8700 / FAX : +82-31-428-8787
E-mail : export@youngincm.com
Homepage : www.youngincm.com



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