

Water Purifier (Ion-exchange+Distillation)

WG251/1001

Distilled water production 1.5L/h WG251 5L/h WG1001

Purified method Ion exchange→Distillation→Filtration

Purified water Deionized water / Distilled water

Water quality A4 Deionized water / A4 Distilled water

Low TOC standard models

- Pre-treatment cartridge removes bacteria, trihalomethane, residual chlorine, organic and dust
- High performance ion-exchange resin cartridge (CPC-S, 4L) achieves high purity water with low electric conductivity and TOC
- Multi-functional control and display panel
- Standard equipped with membrane filter at water feeding port
- Large distilled water tank with capacity of 30L (WG251) and 100L (WG1001)
- Easy to use slide out type water sampling tray with drainage eliminates concerns about overflowing water discharge



WG251



WG1001

Specifications

Product code	253152	253153
Model	WG251	WG1001
Water purifying method	Ion exchange→Distillation→Filtration	
Water feeding	One-touch coupler connecting resin hose / free hose connecting	
Drainage connection	Left / right selection connecting, hose connecting	
Purified water	Deionized water and distilled water	
Distilled water production	Approx. 1.5L/h	Approx. 5L/h
Distilled water delivery rate	0.5 to 1L/min	
Deionized water delivery rate	0.5 to 1L/min	
Range of production	0.1 to 30L / Continuous production	0.1 to 100L / Continuous production
Condenser	Hard glass	
Heater	Ceramic heater 1.2kW	Ceramic heater 1.9kW×2
Pre-treatment cartridge	0.1μm hollow fiber + Activated carbon	
Ion-exchange resin cartridge	CPC-S 4L×1pc. (Activated carbon high-purity cartridge)	CPC-S 4L×2pcs. (Activated carbon high-purity cartridge)
Final filtration	0.1μm membrane filter×2	
Leakage detection	Water leakage detector forcefully shuts off feed water solenoid valve when water leakage detected	
Distilled water tank capacity	30L polyethylene tank	100L polyethylene tank
Distilled water UV sterilization	Optional	
Product water intake tray	Slide out type, Load-bearing capacity 10kg, for 5L beaker	Slide out type, Load-bearing capacity 20kg, for 10L tank
Multi-purpose distilled water sampling port	Water supply connection to WR type, Right side of main unit	
Water level sensor	Lead switch, five level detection	
Raw water pressure range	0.5 to 5×100kPa (0.5 to 5kgf/cm ²)	
Power source (50/60 Hz)	AC115V/AC220V Single phase with step-down transformer	AC220V 18.5A Single phase with step-down transformer
External dimension*1	W600×D660×H780mm	W600×D660×1650mm
Weight	Approx. 55kg	Approx. 105kg
Water level display	LED display	
Water quality display	Digital (conductivity or resistivity)	
Other display	Consumables replacement indication (Ion-exchange resin cartridge, Pre-treatment cartridge, UV sterilizing lamp*2, membrane filter), Error message, log of consumables replacement (20 logs each), Error log, Japanese or english display, Maintenance requirement display	
Accessories	Water supply/drain hose(approx. 2m), Connecting hose assembly, Pre-treatment Cartridge, Ion-exchange resin cartridge, Membrane filter, Hose clamp, Seal tape	

The length of the power cord is about 2m outside the unit.

*1 Protrusions not included

*2 Optional

Control Panel



Membrane Filter (Standard)



Easy to use tray for product water intake

Water Quality Analysis

Japanese Industrial Standard JIS K 0057

Item	Measured value						
	JIS K 0557 A4	WG251			WG1001		
		Deionized water	Distilled water	JIS K 0557	Deionized water	Distilled water	JIS K 0557
Electrical conductivity (μS/cm)	<1	0.0055	0.081	A4	0.0056	0.7	A4
Total organic carbon(TOC) (μgC/L)	<50	4	33	A4	10	20	A4
Zinc (μgZn/L)	<0.1	<0.01	<0.01	A4	<0.01	<0.01	A4
Silica (μgSiO ₂ /L)	<2.5	<0.1	<1.0	A4	<1.0	<1.0	A4
Chloride ion (μgCl ⁻ /L)	<2.5	<0.1	<0.1	A4	<0.1	<0.1	A4
Sulfate ion (μgSO ₄ ²⁻ /L)	<1	<0.1	<0.1	A4	<0.1	<0.1	A4
Total level		A4	A4		A4	A4	

* Raw water: Tap water from Kanagawa Prefecture

* Quality of raw water may cause different results. Distilled water is the value right after production.

Maintenance

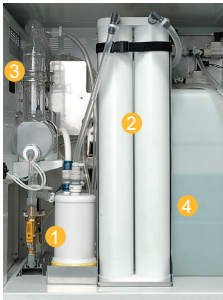


WG1001 interior

Pre-process cartridge and ion-exchange resin cartridge can be easily attached and detached

High Quality Ion-exchange Resin Cartridge (CPC-S)

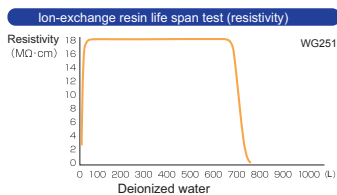
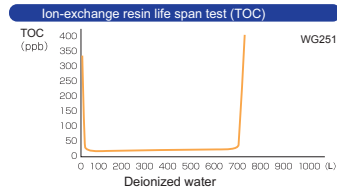
25% more resin than previous products. Activated carbon added to high-quality ion-exchange resin achieves lower TOC.



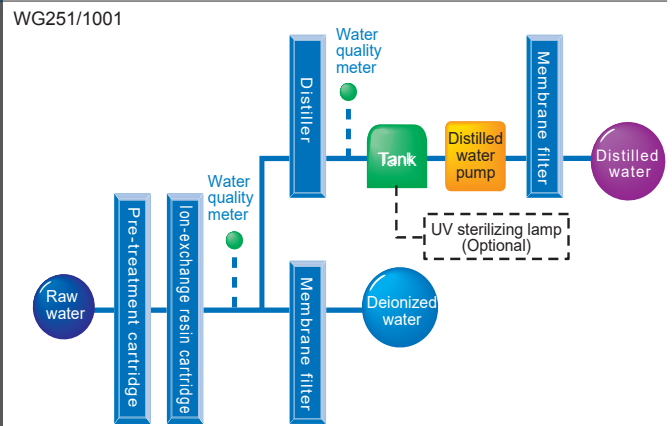
WG251 interior

Automatic drainage function of the boiler water prevents scale adhesion and achieves higher water quality.

- ① High performance pre-treatment cartridge (PWF-1) removes trihalomethane and achieves higher water quality
 - ② Ion-exchange resin cartridge (CPC-S)
 - ③ Distilling boiler
 - ④ Distilled water tank
- ① ② is consumable



Treatment Process



Optional items

No.	Description	Model	Product code
①	Stand (External dimension: W603×D683×H870mm)	AS250	253174
②	Product water hose, hose length 2m	OWG24	253204
③	Water Supply Unit	OWH10	253686
④	Raw water pressure reducing valve	OWG48	253772
⑤	*UV sterilizing lamp (for WG251)	OWG20	253202
⑥	*UV sterilizing lamp (for WG1001)	OWG22	253203
⑦	*Connection Unit G (WL100+WG251)	--	253668
⑧	*Drain trap (for WG251)	OWI11	253221
⑨	*Drain trap (for WG1001)	OWI21	253222

* Please specify when ordering main unit.

Consumable parts

No.	Description	Model	Product code
①	Pre-treatment cartridge	PWF-1	253099
②	Ion-exchange resin cartridge	CPC-S	253080
③	Membrane filter (2 pcs. / set)	MFRL727	9020010004
④	Air vent filter for tank	AVF-1(4210)	9020020001
⑤	UV sterilizing lamp	OWG28	253773



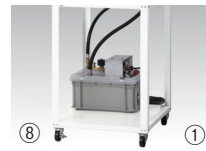
Product water hose (OWG24)



Water Supply Unit (OWH10)



Connection Unit G (WL100+WG251)



Drain trap OWI11+stand AS250



Pre-treatment cartridge PWF-1



Ion-exchange resin cartridge CPC-S



Membrane filter MFRL727



Air vent filter for tank AVF-1