

# Water Purifier - Auto Still®

## WG250B/1000

Distilled water production 1.8L/h (WG250B) 5L/h (WG1000)

Treatment process Ion exchange→Distillation→Filtration

Purified water Deionized water Distilled water

Water quality Type1 / A4 Deionized water Type2 / A4 Distilled water

### Low TOC standard models



WG250B



WG1000

- 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 (WG250B) and 100L (WG1000)
- Easy to use slide out type water sampling tray with drainage eliminates concerns about overflowing water discharge

### Specifications

Model	WG250B	WG1000
Water purifying method	Ion exchange→Distillation→Filtration	
Water feeding	One-touch coupler connecting resin hose / free hose connecting	
Water drain method	Left / right selection connecting / hose connecting	
Purified water	Deionized water and distilled water	
Distilled water production	~1.8L/h	~5L/h
Distilled water delivery rate	0.5~1L/min	
Deionized water delivery rate	0.5~1L/min	
Range of production	0.1~30L / continuous water collection	0.1~100L / continuous water collection
Condenser	Hard glass	
Heater	Ceramic heater 1.4kW	Ceramic heater 1.9kW x 2
Pre-treatment cartridge	0.1µm hollow fiber + activated carbon (PWF-1)	
Ion-exchange resin cartridge	CPC-S 4L x 1pc. (activated carbon high-purity cartridge)	CPC-S 4L x 2pcs. (activated carbon high-purity cartridge)
Final filtration	0.1µm membrane filter x 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	
Water sampling 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	Right side of main unit	
Water level sensor	Lead switch, five level detection	
Raw water pressure range	0.5~5 x 100kPa (0.5~5kgf/cm <sup>2</sup> )	
Power source (50/60 Hz)	AC115V 13A / AC220V 6.8A	Single phase AC220V 18A
External dimension*1	W600 x D660 x H980mm	W600 x D660 x 1850mm
Weight	~60kg	~120kg
Water level display	LED display	
Water quality display	Digital (conductivity or resistivity)	
Other display	Replacement of consumable parts (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	
Included accessories	Feed /drain water hose, connecting hose assembly, cleaning agent, preprocess cartridge, ion-exchange resin cartridge, membrane filter, hose clamp, seal tape	

\*1. Protrusions not included

\*2. Optional

### Control Panel



### Membrane Filter (Standard)



### Maintenance



WG1000 interior

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



Easy to use tray for product water intake

## Water Quality Analysis

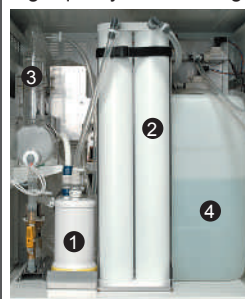
Item	ASTM D 1193 Type1	JIS K 0557 A4	WG250B						WG1000					
			Deionized water			Distilled water			Deionized water			Distilled water		
			Measured value	ASTM D 1193	JIS K 0557	Measured value	ASTM D 1193	JIS K 0557	Measured value	ASTM D 1193	JIS K 0557	Measured value	ASTM D 1193	JIS K 0557
Electrical conductivity ( $\mu\text{S}/\text{cm}$ )	<0.056	<1	0.055	Type1	A4	0.81	Type2	A4	0.056	Type1	A4	0.7	Type2	A4
Total organic carbon ( $\mu\text{g}/\text{l}$ )	<50	<50	4	Type1	A4	33	Type1	A4	10	Type1	A4	20	Type1	A4
Zinc ( $\mu\text{gZn}/\text{l}$ )	-	<0.1	<0.01	-	A4	<0.01	-	A4	<0.01	-	A4	<0.01	-	A4
Silica ( $\mu\text{gSiO}_2/\text{l}$ )	<3	<2.5	<0.1	Type1	A4	<1.0	Type1	A4	<1.0	Type1	A4	<1.0	Type1	A4
Chloride ion ( $\mu\text{Cl}/\text{l}$ )	<1	<1	<0.1	Type1	A4	<0.1	Type1	A4	<0.1	Type1	A4	<0.1	Type1	A4
Sulfate ion ( $\mu\text{SO}_4^{2-}/\text{l}$ )	-	<1	<0.1	-	A4	<0.1	-	A4	<0.1	-	A4	<0.1	-	A4
<b>Total level</b>				<b>Type1</b>	<b>A4</b>		<b>Type2</b>	<b>A4</b>		<b>Type1</b>	<b>A4</b>		<b>Type2</b>	<b>A4</b>

\*Quality of raw water may cause different results.

\*For water quality comparison JIS K 0057 ↔ ASTM D 1193 refer to page 115 of the general catalog.

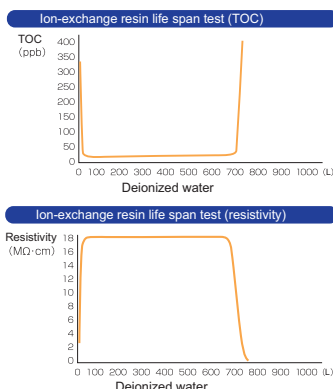
## High Quality Ion-exchange Resin Cartridge (CPC-S)

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

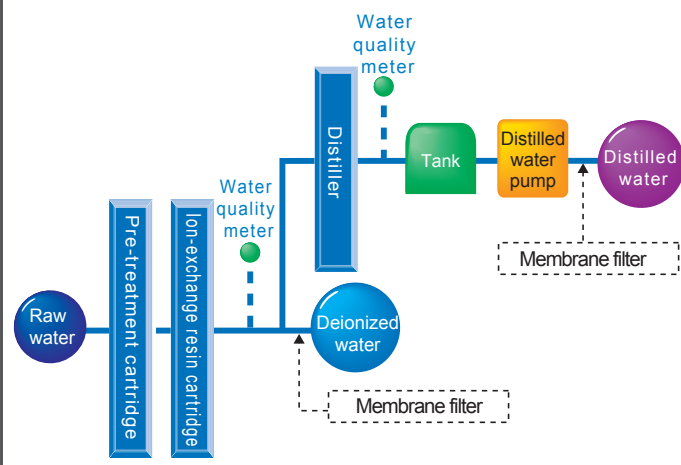


Automatic drainage function of the boiler water prevents scale adhesion and achieves higher water quality.

- (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



## Treatment Process



### Optional items

Product code	Description
253174	Stand AS250 (External dimension: W603 x D683 x H870mm)
253204	Product water hose OWG24 hose length 2m
253686	Feed water connection unit OWH10
253769	Raw water pressure reducing valve OWG42
253202	UV sterilizing lamp OWG20 (for WG250B) *
253203	UV sterilizing lamp OWG22 (for WG1000) *
253211	Drain trap OWI10 (for WG250B) *
253212	Drain trap OWI20 (for WG1000) *

\* Please specify when ordering main unit.

### Consumable parts

Product code	Description
253099	Pre-treatment cartridge PWF-1
253080	Ion-exchange resin cartridge CPC-S
9020010004	Membrane filter (2 pcs. / set) MFRL727
9020020001	Air vent filter for tank AVF-1(4210)
253773	UV sterilizing lamp OWG28



Product water hose (OWG24)



Feed water connection (OWH10)



Drain trap OWI10+stand AS250



Pre-process cartridge PWF-1



Membrane filter MFRL727



Ion-exchange resin cartridge CPC-S



Air vent filter for tank AVF-1

### Attention

- Handle drain hose carefully.
- Attach water supply hose to a faucet with a sink.
- When the sink is remote from the faucet, use optional water supply port unit.

- Keep original water pressure within the specified pressure range.
- Never use in flammable or explosive gas atmosphere.