

High Performance Water Purifier - Super Auto Still®

WG270

Production capacity 1.8L/h

Treatment process Ion exchange → Distillation

Purified Water Deionized water / Distilled water

Water quality Type 1 / A4 level Deionized water Type 2 / A4 level Distilled water



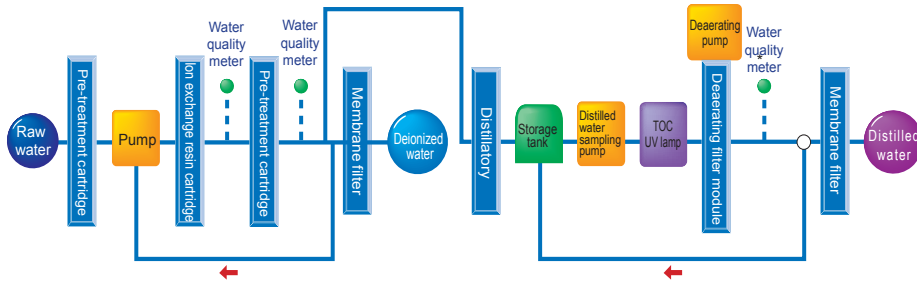
By adopting Yamato's TOC reduction system, distilled water in the storage tank is always kept at Type 2 / A4 level.

- Equipped with Ion exchange water system, TOC reduction UV lamp and Yamato's original TOC (Total Organic Carbon) degradation system
- Capacity of distilled water storage tank: 20L
- Easy to read panel display
- Displays replacement of consumables and its exchange history
- Water sampling tray is equipped with a drainage system to eliminate concerns about discharge of overflowing water
- Feed and drain can be connected on both sides
- Standard equipped with membrane filter (0.1µm hollow fiber membrane) to protect pure water production from contamination
- Easy maintenance as most consumables can be easily attached and detached

Specifications

Model	WG270
Purified water	Deionized water: A4 / Type1 Distilled water: A4 / Type 2
Water purifying method	Ion exchange → High-purity cartridge → Distillation → UV sterilizing → Deaeration → Filtration
Feed water / Drain method	Connection to a tap water faucet with a one-touch coupler water supply resin hose. / Drain water connector on both sides for the connection of a drain hose
Distilled water production	~1.8L/h
Delivery rate	0.5L/min.~1.0L/min. Water capacity setting / continuous water sampling switching system
Setting range of production	0.1~20L Fixed-quantity water sampling / consecutive water sampling
Condenser	Hard glass
Heater	1.4kW Ceramic heater
Pre-treatment cartridge	0.1µm diameter hollow fiber + activated carbon (PWF-1)
Ion-exchange resin cartridge	3L ion-exchange resin cartridge (CPC-N) & 3L High-purity cartridge (CPC-H)
Distilled water storage tank	20L polyethylene tank
Filtration	0.1µm diameter membrane filter for distilled water & deionized water
Deaerating filter of distilled tanking water	MHF membrane (built-in type)
Vacuum pump for deaeration	Diaphragm vacuum pump
TOC reduction UV lamp	UV lamp
Ion exchange water circulation pump	Electromagnetic pump
Leakage detection	Sampling water electromagnetic valve shut down function by water leakage sensor
Water sampling tray	Drawer type, Forced drainage function, load bearing 10kg
Water level sensor	Five-step reed switch (also used for distilling controlling function)
Water feed pressure	0.5~5x100kPa (0.5~5kgf/cm ²)
Power source (50/60Hz)	AC115V 13A, AC220V 7A
External dimensions	W600 x D660 x H780mm
Weight	~55kg
Water level display	LED display
Water quality display	LCD display (conductivity / resistivity)
Other display	Replace consumable parts (process cartridge, ion exchange resin, high purity cartridge, UV lamp x 2, MHF module membrane filter), alarm display, consumable parts replacement history, error log, language switching, maintenance indication
Accessories	Supply/drain water hoses, hose clamp, pre-treatment cartridge, ion exchange resin cartridge (CPC-N), high purity cartridge (CPC-H), membrane filter, seal tape

Treatment Process



Control Panel



Water Quality Analysis

Item	ASTM D 1193 Standard Type 1	JIS K 0057 Standard A4	Deionized water		Distilled water			
			Measured value	Level	Measured value	Level		
Electrical conductivity ($\mu\text{S/cm}$)	<0.056	<1	0.055	Type 1	A4	0.76	Type 2	A4
Organic carbon ($\mu\text{g/l}$)	<50	<50	16	Type 1	A4	50	Type 1	A4
Zinc ($\mu\text{g Zn/l}$)	-	<0.1	<0.01	-	A4	<0.01	-	A4
Silica ($\mu\text{g SiO}_2/\text{l}$)	<3	<2.5	<0.1	Type 1	A4	1.5	Type 1	A4
Chloride ion ($\mu\text{Cl/l}$)	<1	<1	<0.1	Type 1	A4	<0.1	Type 1	A4
Sulfate ion ($\mu\text{g SO}_4^{2-}/\text{l}$)	-	<1	<0.1	-	A4	<0.1	-	A4
Total level				Type 1	A4		Type 2	A4

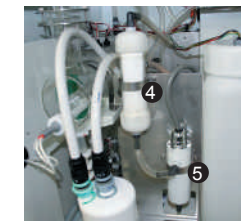
*Quality of raw water may cause different results.

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

Structure



- (1) Ion exchange resin cartridge CPC-N
 (2) High purity cartridge CPC-H
 (3) Pre-treatment cartridge PWF-1



- (4) Deaerating filter module
 (5) TOC reduction UV lamp unit

Optional items



Stand



Water sampling hose unit
 Hose length 2m, 0.1 μm
 with membrane filter



Water supply port unit



Drain Trap

Product code	Product name	
253174	Stand W603 x D683 x H870mm	AS250
253204	Water intake hose unit	OWG24
253686	Water supply port unit	OWH10
253769	Pressure reducing valve for raw water	OWG42
253211	Drain Trap	OWI10

Consumable Parts



Pre-treatment cartridge



Ion exchange resin cartridge



High purity cartridge



Membrane filter



TOC reduction UV lamp



Deaerating filter



Tank air vent filter

Product code	Product name	
253099	Pre-treatment cartridge	PWF-1
CPCN30010	Ion exchange resin cartridge	CPC-N
CPCNS30011	High purity cartridge	CPC-H
9020010004	Membrane filter (2pcs set)	MFRL727
253250	TOC reduction UV lamp	UV-Y1
253249	Deaerating filter module	DGF-1
9020020001	Tank air vent filter	AVF-1 (4210)
253251	TOC measurement UV lamp	UV-Y2

- Attention**
- Avoid tangling the drain hose
 - Attach water supply hoses to the faucet with sink
 - When sink is separate from the faucet, please use optional Water Supply Port Unit
 - Raw water pressure should be within specified pressure range
 - Avoid flammable or explosive gas atmosphere