

Water Purifier (Ion-exchange+Distillation, Large Capacity)

WG511/711

Distilled water production 5L/h WG511 10L/h WG711

Purified water Deionized water / Distilled water

Water quality A4 Deionized water

A4 Distilled water

Large capacity water purifier producing highly pure water in a single motion.

Supplied water, Ion exchange water and Distilled water to the storage tank are automatically controlled.

- For production of large amounts of distilled water and deionized water.
- Digital display of water quality, touch button water collection.
- Easy to replace ion-exchange resin cartridge.
- Optional UV lamp for sterilization.



WG511

WG711

Specifications

Product Code	253137	253138
Model	WG511	WG711
Water quality*1	Distilled water	JIS K0557 A4 Standards compliance*2
	Deionized water	JIS K0557 A4 Standards compliance*2
Treatment process	Distilled water	Pre-treatment cartridge → Ion-exchange cartridge SPC-10 → (Option CPC-H) → Distillation → Tank → Filtration
	Deionized water	Pre-treatment cartridge → Ion-exchange cartridge SPC-10 → (Option CPC-H) → Filtration
Distilled water production*1	Approx. 5L/hr.	Approx. 10L/hr.
Collection of distilled water*1	Approx. 1.0 to 2.0L/min. (50Hz) 1.5 to 2.5 L/min. (60Hz) *It depends on the amount of water in the tank.	
Collection of Ion exchange water*1	Approx. 1.4L/min.	Approx. 2.8L/min
Setting range of collection capacity	Approx. 0.1 to 85L quantitative water / Continuous water collection*3	
Drainage connection	Left or right, rear side selective connection, Hose connection	
Pre-treatment cartridge	0.1 μm hollow fiber membrane + activated charcoal (PWF-1) (to be replaced at a flow rate of approx. 5,000 L)	
Ion Exchange Cartridge	SPC-10 (approx. 10L of resin) (Exchange by approx. 2,000L of water flow)	
High-purity cartridge (option)	CPC-H (Exchange by approx. 2,500L of flow rate with together SPC-10)	
Final filtration	0.1 μm membrane filter MFRL730 (Mounted at the sampling outlet) (to be replaced at a flow rate of approx. 3,000L)	
Distilled water storage tank capacity	Polyethylene made, 100L (Full water setting 30/55/85L)	
Distilled water UV sterilization	Optional	
Product water intake tray	Standard	
Raw water pressure range	0.10MPa to 0.50MPa	0.15MPa to 0.50MPa*5
External dimensions*4	W800×D685×H1510mm	W870×D685×H1510mm
Weight	Approx. 130kg	Approx. 140kg
Power source (50/60Hz)	AC220V 20A Single phase with step-down transformer	AC220V 40A Single phase with step-down transformer
Accessories	Water supply hose×1pc, Ion-exchange resin Cartridge (SPC-10)×1pc, Pre-treatment Cartridge×1pc, Membrane Filter×2pcs, Seal tape×1pc, Elbow fitting×1pc, Hose band×2pcs, Connection hose assy×1pc, Drain hose (3m)assy×1pc	

The performance data is based on 200 V AC, room temperature 23°C±5°C, humidity 65%RH±20%.

The operating temperature range of this unit is 5°C to 35°C. The temperature range of raw water should be between 5°C and 30°C.

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

*1 The guaranteed performance range is 2.0 to 5.0×100kPa (2 to 5kgf/cm²) of raw water pressure and water temp. of 20°C.

The amount of water collected varies depending on the temperature of the water..

*2 This is the value immediately after distillation.

*3 The continuous water collection capacity is limited to the amount you select when the tank is full.

*4 Protrusions not included.

*5 When the drainage temperature lowering mechanism is turned off, the water pressure range is 0.10 to 0.50MPa.

Structure



Water sampling tray
Large stainless steel sink with a splashing preventive mechanism

① Membrane filter MFRL730

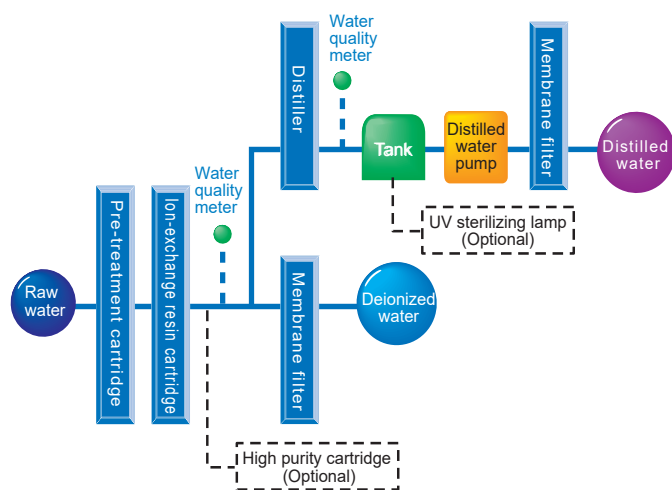
Inner View



Arrangement of consumables

- ② Ion-exchange resin SPC-10
- ③ Pre-treatment cartridge PWF-1
- ④ High purity cartridge CPC-H (Optional)

Treatment Process



Water quality analysis

Japanese Industrial Standard JIS K 0057

Item	WG511/711		WG511	WG711
	Deionized water		Distilled water (*Just after production)	
	SPC-10	SPC-10 + CPC-H		
Electric conductivity(mS/m) (at water temp. 25°C)	0.0056	0.0056	0.084	0.066
Organic carbon (TOC) (µgC/L)	0.02	0.01	0.015	0.014
Zinc (µgZn/L)	<0.1	<0.1	<0.1	<0.1
Silica (µgSiO ₂ /L)	<1.0	<0.1	1.2	2
Chloride Ion (µgCl ⁻ /L)	<0.5	<0.1	<0.2	<0.5
Sulfuric acid Ion (µgSO ₄ ²⁻ /L)	<0.5	<0.1	<0.2	<0.5
Total Level	JIS A4			

Optional items

No.	Description	Option Model	Product Code
①	Product water intake hose unit (1m extension of the sampling port)	OWF10	253208
②	Water Supply Unit	OWH10	253686
③	Pressure reducing valve for raw water	OWG48	253772
④	*Connection Unit G (Connection Set for WL100)		253668
⑤	*Drain trap WG511 (when PVC pipe is used for drainage and the water supply temperature exceeds 30°C)	OWI21	253222
⑥	*Drain trap WG711 (when PVC pipe is used for drainage and the water supply temperature exceeds 28°C)	OWI41	253223
⑦	*UV sterilization lamp	OWG66	253226
⑧	High purity cartridge (CPC-H) connection unit*1	OWG62	253781
⑨	External alarm output	OWG64	253225

* Please specify when ordering main unit. *1 High purity cartridge (CPC-H) is not included.



Water Supply Unit (OWH10)



High Purity Cartridge (CPC-H)



Pre-treatment cartridge (PWF-1)

Consumable parts

No.	Description	Option Model	Product Code
①	Membrane filter (1pc)	MFRL730	9020010006
②	UV sterilization lamp (for optional sterilization lamp)	OWG28	253773
③	Ion-exchange resin cartridge	SPC-10 set	9110010004
④	High-purity cartridge	CPC-H	CPCNS30011
⑤	Pre-treatment cartridge	PWF-1	253099