

# Water Purifier - Pure Line

## WL200/220/220T

Treatment process: Ion-exchange    Purified water: Deionized water    Water quality: Type2 / A3

Economical, space saving benchtop water purifier which connects directly to tap water.



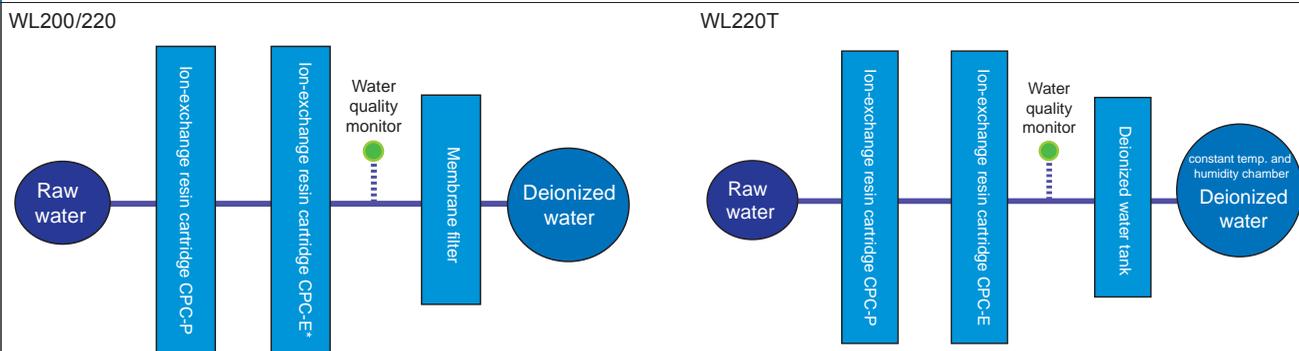
- Collecting deionized water is as simple as connecting to a faucet
- Benchtop, space-saving design
- Digital display for easy operation
- Deionized water compliant with ASTM D1193 Type 2 / JIS K 0557 A3 level, suitable for trace analysis
- Displays replacement of consumables
- Standard equipped with membrane filter (WL200/220)
- A solenoid valve at the water sampling port prevents water leakage from final membrane filter
- WL220T is equipped with constant temperature control and pure water tank. Constant temperature and deionized water delivery to pure water tank controlled by electromagnetic valve

### Specifications

Model	WL200	WL220	WL220T
Water purifying method	Ion-exchange (controlled by key)		Ion-exchange (manual)
Raw water supply	One touch coupler water connection resin hose		
Deionized water production	~1L/min. (continuously produced)		~1L/min. (by natural fall)
Ion-exchange resin cartridge	2L ion-exchange resin with activated carbon (CPC-P) x 1pc.	2L ion-exchange resin with activated carbon (CPC-P) x 1pc. 2L ion-exchange resin (CPC-E) x 1pc.	
Final filtration	0.1µm (membrane filter)		N/A
Pure water tank	N/A		3L polyethylene tank
Water leakage detection	Solenoid valve forced shutdown of water supply by detecting water leakage		
Raw water pressure range	0.5~5x100kPa (0.5~5 kgf/cm <sup>2</sup> )		
Sampling port	250mm above floor RC1/4 (membrane filter connection)		ø9 nipple (hose connection)
Safety device	Circuit breaker, water leakage indicator, pressure reducing valve, water quality abnormal alarm		
Power source (50/60Hz)	AC100~240V <0.2A		
External dimensions*	W350xD350xH450mm		
Weight	14kg	16kg	17kg
Water quality display	7 segments LED display (conductivity / resistivity)		
Other display	Display of consumables replacement (CPC-P and CPC-E: should be replaced simultaneously to prevent degradation of water quality, membrane filter), alarm display (water leakage alarm)		
Accessories	Raw water supply hose, power cord (2m), Ion-exchange resin CPC-P (WL200 only), Ion-exchange resin CPC-P+CPC-E (WL220/ WL220T), membrane filter (WL200/220), Y-shaped water supply hose with strainer 4m (WL220T), constant temperature and humidity chamber hose ø9xø13 3m (WL220T), hook (WL220T), seal tape		

\*Protrusions not included.

### Treatment Process



\*CPC-E only for WL220

WL220T used only for constant temperature and pure water tank, no water sampling port in the front.

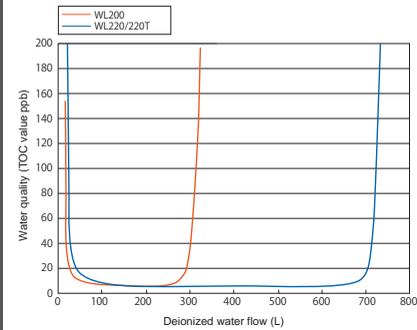
## Water Quality Analysis

Item	ASTM D 1193 Standard Type 2	JIS K 0557 A3 level	WL200			WL220		
			Measured value	Level		Measured value	Level	
				ASTM D 1193	JIS K 0557		ASTM D 1193	JIS K 0557
Electrical conductivity ( $\mu\text{S}/\text{cm}$ )	<1	<1	0.055	Type1	A4	0.055	Type1	A4
Organic carbon ( $\mu\text{g}/\text{l}$ )	<50	<200	19.6	Type1	A4	19.0	Type1	A4
Zinc ( $\mu\text{g Zn}/\text{l}$ )	-	<0.1	<0.1	-	A4	<0.1	-	A4
Silica ( $\mu\text{g SiO}_2/\text{l}$ )	<3	<5	<3	Type2	A3	<3	Type2	A3
Chloride ion ( $\mu\text{g Cl}^-/\text{l}$ )	<5	<1	<0.5	Type1	A4	<0.5	Type1	A4
Sulfate ion ( $\mu\text{g SO}_4^{2-}/\text{l}$ )	-	<1	<1.0	-	A4	<1.0	-	A4
<b>Total level</b>				<b>Type2</b>	<b>A3</b>		<b>Type2</b>	<b>A3</b>

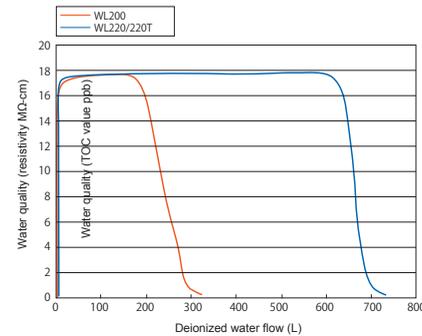
\*Quality of raw water may cause different results.

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

### Ion exchange resin lifespan test (TOC value)



### Ion exchange resin lifespan test (resistivity value)



### Optional items

Product code	Description	Applicable model
253686	Water supply port unit OWH10	WL200/220/220T
253769	Pressure reducing valve for raw water OWG42	WL200/220/220T
253261	CPC-E connection set (CPC-E included) OWL36	WL200
253267	*Pre-process cartridge connection set OWL38	WL200/220
253266	*Water sampling stand with connection set OWL40	WL200/220
253268	*External alarm output terminal OWL42	WL200/220/220T
253269	*Remote water sampling function OWL44	WL200/220
253270	Remote water sampling function with sampling switch OWL46	WL200/220
253272	Input terminal for remote water sampling with solenoid valve OWL48	WL220T
253271	Shelf plate OWL50	WL220T
253273	Power cord (4m) OWL52	WL200/220

\* Please specify when ordering main unit.



Shelf plate (OWL50): used when WL220T is placed on top of the constant temperature control plate



Water supply port unit OWH10

### Consumables



Membrane filter



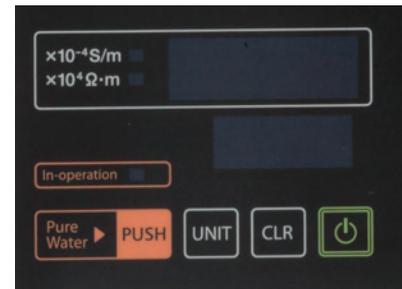
CPC-P Ion exchange resin cartridge



CPC-E Ion exchange resin cartridge

Product code	Description
253254	Ion exchange resin cartridge CPC-P
253262	Ion exchange resin cartridge CPC-P+CPC-E
9020010004	Membrane filter x 2pcs.

## Control Panel



WL220T has no PUSH key and POWER key

## Structure



WL220



WL220T