

Laboratory Washer (Process Monitorable)

AWD510/AWD510DRY

Washing
system

Upper / Middle / Lower-stage
rotating jet nozzles

hot water
disinfection

any setting temperature
up to 93°C.

Reliable cleaning function

- Compared to hand washing, it is more uniform and safe to wash and disinfect.
- It is possible to rinse at any setting temperature up to 93°C.
- The sliding two-stage rack allows you to clean a large number of glassware at a time.
- The upper, middle, and lower rotating nozzles showers allow for thorough cleaning.
- The detergent is automatically measured and fed into the machine. (liquid detergent)
- The jet rack (optional) enables cleaning of flasks and other containers that are difficult to wash inside.
- Drying is done by clean warm air with HEPA filter. (AWD510DRY)
- Hot water is cooled down to 60°C or less and discharged, so no heat-resistant piping work is required.

Excellent usability

- The LED display on the front panel and internal color lighting allow to check for progress from a distance.
- Double-glazed windows prevent the surface from becoming hot when disinfecting with hot water.
- There is no danger of accidentally opening the door during cleaning due to the electronic lock.

Specifications

Product code	291020	291070
Model	AWD510	AWD510DRY
Washing system	Upper / Middle / Lower-stage rotating jet nozzles	
Washing process	Pre-washing, Washing, Rinsing, Rinsing with pure water	Pre-washing, Washing, Rinsing, Rinsing with pure water, Pre-drying
Water temp.	Set Off to Max. 80°C (pre-washing / washing), Max. 93°C (rinsing)	
Hot-water supply	2kW Pipe heater	
Detergent supply	Automatic weighing and loading (liquid detergent)	
Drain method	Hot water cooling and forced draining with pump	
Drying method	—	Hot-air drying (HEPA filter, fixed at approx. 60°C)
Ambient temperature	5 to 40°C (indoor only)	
Water supply	Tap water (necessary)	Temp. 5 to 25°C , Raw water feed pressure 0.1 ~ 0.5MPa, Connection port: G3/4 (main unit), G1/2 (primary)
	Hot water (discretionally)	Temp. 5 to 60°C , Raw water feed pressure 0.1 ~ 0.5MPa, Connection port: G3/4 (main unit), G1/2 (primary)
Detergent	Dedicated detergent (optional)	
Pure water connection (discretionally)	Feed pressure 0.02 to 0.1MPa (when using pure water rinse), Hose nipple I.D. 10.5mm	
Exterior material	Stainless steel plate (SUS304)	
Interior material	Stainless steel plate (SUS316)	
Leg	Level adjuster	
Display	4.3-inch LC touch panel / LED lamp (process) / Interior lighting color by process	
Safety Device	Over current / Electric leakage breaker, Overheat prevention, Door lock, Water leak detector	
Internal dimensions	W500×D480×H480mm	
External dimensions*1	W580×D600×H845mm	
Weight	Approx. 87kg	
Power source (50/60Hz)	AC220V 13A Single phase with step-down transformer	
Accessories	Water supply hose (length 1.5 m), Hot water supply hose (length 1.5 m), Drain hose (length 2m), Overflow hose (length 1.5 m), Hose bands (for drain hose and overflow hose), Upper rack removable lid (with 2 knurled screws), Detergent tube (for Alkaline liquid detergent) Detergent bottle storage rack	

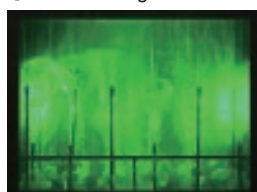
*1 Do not include protrusions.

The length of the power cord is about 3m outside the unit.

Front LED lamp / Internal color lighting

Five-color lighting to differentiate each process enables quick confirmation of the current progress even from a distance.

① Pre-washing



② Washing



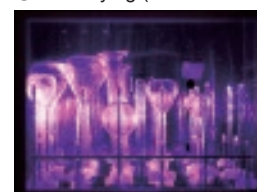
③ Rinsing



④ Rinsing by pure water

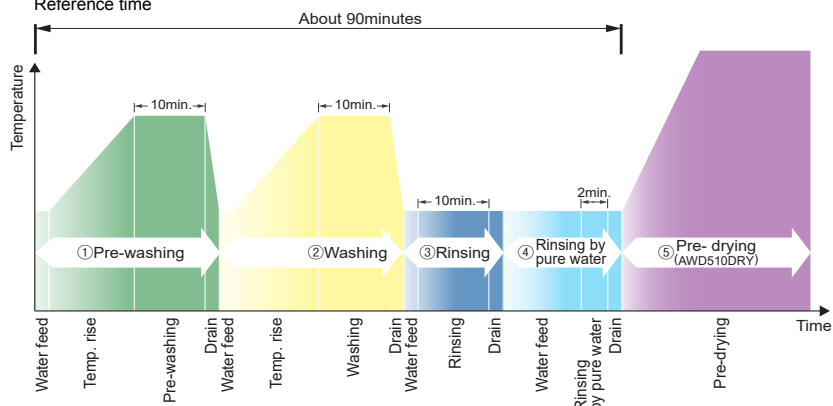


⑤ Pre-drying (AWD510DRY)



Guide for washing period, Mode[B]

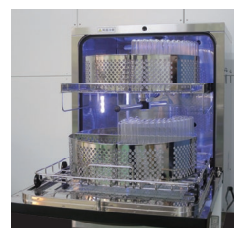
Operating conditions : Room temperature : 23±5°C / Water temperature:23°C /
Raw water pressure : 0.1 MPa / Power supply : 200V±5% / Mode (without rinsing with pure water)
Mode [B] (Frequency of rinsing and rinsing with pure water changed to once+preliminary drying)
Reference time



Example of rack mounting



Jet rack, Slide-type A5
(Flask not included)
The end of each pipe is a nozzle.



Test tube rack
(Test tube not included)+
Rack base, Slide-type
upper/lower-stage

Optional Items and Consumables

No.	Description	Option Model	Item Code
①	Rack base, Slide-type upper-stage	-	291061
②	Rack base, Slide-type lower-stage	-	291062
③	Jet rack, Slide-type A5 (rack base is not used)	-	291063
④	Test tube rack (used as a set with rack base)	-	291068
⑤	Band to hold a small number of glassware items for test tube rack, 4-piece set	-	291071
⑥	Beaker rack A5 (used as a set with rack base)	-	291064
⑦	Beaker rack net for beaker rack A5	-	291069
⑧	Stand	-	291067
⑨	Mesh basket	-	291072
⑩	Drainage junction pipe for the confluence of overflow drainage and normal drainage	-	291065
⑪	Water supply connection unit, valve R1/2 with 60-mesh strainer and joint for G1/2	-	291066
⑫	Water purifier for pure water rinsing	WL220T	253629
⑬	Water supply unit for WL220T	OWH10	253686
⑭	Drain pan for WL220T	OWL50	253271
⑮	Power cord 4m for WL220T	OWL52	253273
⑯	Ion exchange cartridge set for WL220T	CPC-P+CPC-E	253262
⑰	Amorphous phosphorus detergent, General use. Alkaline powder detergent 8kg	-	8190026001
⑱	Detergent, General use. Alkaline liquid detergent, 2L×4	AWL100	291077
⑲	Detergent, Grease-cutting. Alkaline liquid detergent, 2L×4	AWL200	291078
⑳	Detergent, General use. Weak alkaline liquid detergent, 2L×4	AWL300	291079
㉑	Detergent for Inner chamber, Strong acid, 500g×4	AWP500	291080

Installation example

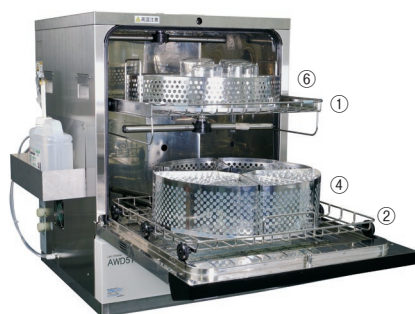
⑫ Water purifier WL220T (optional item)

The use of a pure waterfeed system or the water purifier WL220T enables rinsing with pure water.

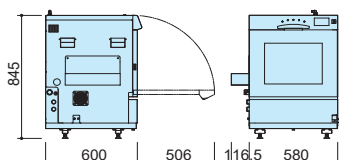
⑭ Drain pan for WL220T

⑧ Stand (optional item)

With casters / adjuster. Capable of housing the washing bottles and test tube racks.



Dimensions (mm)



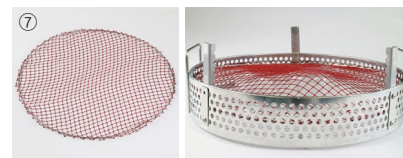
Slide-type upper-stage rack base



Test tube rack



Beaker rack net



Slide-type lower-stage rack base



Beaker rack A5



Band to hold a small number of glassware items



Slide-type jet rack A5



Mesh basket



Drainage junction pipe



Water supply connection unit

