



ALP Co.,Ltd.
TOKYO JAPAN

Horizontal **AUTOCLAVE**

MCY-40 series

40~127°C, Sterilizing.....**MCY-40 & 40L** models

Sterilizing & Drying **MCY-40DP & 40LDP** models



Big size for laboratory

40 φ × 65cm(82 ℓ)

40 φ × 83cm(105 ℓ)

Even 2 or 3 pcs. of 5 ℓ conical flask can be held on the drawer tray,
so unnecessary to lift up the heavy basket holding many objects
as vertical autoclaves.

Full Automatic, (Water Supply), Sterilization, Warming

82 or 105 litres Inner Volume

Even 2 or 3 pieces of 5 l conical flask can be put directly on the lower drawer tray.

Drawer Trays with Sliding Rollers

When you set or take out the objects, you need not reach your hand into the deep chamber, and you can put the heavy objects easily and safely on the trays drawn out of the chamber.

5 Operation Patterns

- A : Sterilization → Auto. exhaust Glassware & tools
- B : Sterilization → Natural cooling Liquid
- C : Sterilization → Natural cooling → Warming Culture medium
- D : Dissolution → Natural cooling (→ Warming) Culture medium
- E : Sterilization → Auto. drain → Air circulating drying (DP models)

By only pushing the start key, you can get full automatic operation. All set data are memorized even after the electric power is cut off.

Warming System after Sterilization

The memory provides process of warming sterilized culture medium at proper temperature (40~60°C) for its use at any time.

Soft and Safe Lid System with Safety Cover

The lid can be opened and closed securely due to the four handles and the self-closing silicone rubber gasket.

Operation does not start if all handles do not lock surely.

Electronic and Magnetic Air Exhaust Device

(Temperature & Time Free Steaming System)

Even petri dishes or small items in bags or buckets are to be exposed to saturated steam.

Control of Integrating Sterilization Temperature

The timer-operation stops while temperature in the chamber comes down more than 1°C under the set temperature, and starts again after return.

Start Timer

By this function, operation can be started by calendar . . . month, day, hour and minute.

For example, if you set on Friday evening, operation will start before your arrived at your office on Monday morning and you can quickly take out the objects at your working-start.

Model	MCY-40	MCY-40W	MCY-40L	MCY-40LW	MCY-40DP	MCY-40DPW	MCY-40LDP	MCY-40LDPW
Use	Sterilization · Warming	Sterilization · Warming Auto. water supply · Pre-heat	Sterilization · Warming	Sterilization · Warming Auto. water supply · Pre-heat	Sterilization · Drying	Sterilization · Drying Auto. water supply · Pre-heat	Sterilization · Drying	Sterilization · Drying Auto. water supply · Pre-heat
Chamber	40cm φ × 65cm depth (82 l)		40cm φ × 83cm depth (105 l)		40cm φ × 65cm depth (82 l)		40cm φ × 83cm depth (105 l)	
Ability	Usable max. 127°C							
Elec.	AC220~240V, 1 φ, 3.6KW		AC220~240V, 1 φ, 4.0KW		AC220~240V, 1 φ, 3.6KW		AC220~240V, 1 φ, 4.0KW	

Outer look



MCY-40
(Cabinet wagon : option)



MCY-40LDP
(Cabinet wagon : option)



3~4 pcs. of dressing drum
(27 φ × 18cm) can be put in
the chamber and 8 pcs. in
the cabinet.

Models with vacuum pump
MCY-40DVP (W)
MCY-40LDVP (W)
are prepared.

g, Hot Air Circulating Drying, Rapid Cooling System

Hot Air Circulating Drying through Micro-Filter (DP models)

In order to dry the sterilized wet objects leaving the lid close, clean air is poured into the chamber through micro-filter by air pump, heated by drying heater, and exhausts out together with inner humidity. So, even clothes can be dried cleanly, and you can use them soon after take out. The operation is full automatic from the sterilization-start to the drying-end.



Automatic Water Supply System (-W models)

Instead of troublesome check and manual supply of water at every operation-start, proper quantity of water is automatically supplied, by means of the sub-water-storage-tank piped directly from city water supply and the water level sensor in the chamber. Even when the chamber is empty of water for cleaning or inspecting its bottom and the start-key is pushed, the heater is operated only after water is supplied to the proper level. Especially on pattern E, you can get great labor-saving if this supply system will be adopted, because water is drained out at every operation.

Pre-heat System (-W models)

In order to complete required sterilization in shorter time, this pre-heat system keeps always the chamber at 60°C and shorten much the time from sterilization-start to arrival at the set-temperature. While the pre-heat switch is ON, the chamber is always kept at 60°C.

Rapid Cooling System (optional except DP models)

...greatly shorten the take-out-time

In case of sterilizing bottles of culture medium, natural cooling takes long time. The cooling fans operate after the sterilization-end, and force the chamber and bottles to cool down to 80°C, then they can easily be taken out. It takes half shorter time than natural cooling.

Safety

- ① Highly reliable chamber and lid
Shiny polished SUS-304 stainless steel chamber and pressed lid with reasonable reinforcements, and passed through water pressure test (0.36 MPa...twice as high pressure as safety valve pour-out).
- ② In case of abnormal conditions or faults, the safety devices operate, cut electricity source and exhaust the pressure out. Water lack, over pressure, abnormal of lid lock system or sensor trouble etc, are indicated on the panel by Er.-signal and electronic sound.
- ③ Heat protect cover of the lid

Safe and easy to work

Drawer Trays with Sliding Rollers

When you set or take out the objects, you need not reach your hand into the deep chamber, and you can put the heavy objects on the trays drawn out of the chamber directly, easily and safely. (You need not lift up the heavy basket holding many objects as vertical autoclaves.)

Every tray stops at this side stopper and even then, it is designed strong enough for heavy sterilized objects. And also, as it can be taken out of the chamber, you can use this autoclave for many purposes as shown below.

For 5 ℓ conical flask (only the lower tray)

For vial bottle (the lower & middle tray)

For many small objects (2~3 trays)



5 ℓ conical flask...2(3) pcs. can be held
3 ℓ conical flask...3(4) pcs..can be held



500ml vial bottle...20(28) pcs. can be held
1 ℓ conical flask ...8(12) pcs. can be held



100ml conical flask...85(100) pcs. can be held

Size of tray : Lower W24×D61(79)×H3cm () : for MCY-40L
Middle W30×D66(84)×H3cm Lower & Upper trays are with sliding rollers.
Upper W36×D61(79)×H3cm

Recorder & floating sensor for sterilized objects : option

		MCY-40	MCY-40L	MCY-40DP	MCY-40LDP
Chamber(inner dia×depth)		40 φ ×65cm (82 ℓ)	40 φ ×83cm (105 ℓ)	40 φ ×65cm (82 ℓ)	40 φ ×83cm (105 ℓ)
Ability	Usable max. press.	0.16MPa (1.6kg/cm ²)			
	Usable max. temp.	127°C			
	Adjustable	40~127°C			
	Warming temp.	50°C(40~60°C adjustable)			
Operation controller		Digital temperature-time controller aided by microprocessor(Temperature-integration system)			
		A : 121°C Ster.→Natural cooling or exhaust B : 127°C Ster.→Natural cooling or exhaust C : 121°C Ster.→Natural cooling or exhaust→Warming D : 115°C Ster.→Natural cooling or exhaust→Warming E : 40~127°C Ster.→Natural cooling or exhaust		A : Sterilization→Drain→Air circulating drying B : Sterilization→Exhaust C : Sterilization→Natural cooling D : Sterilization→Natural cooling→Warming E : Dissolving →Natural cooling→Warming	
	Operation	(Automatic)water supply→Start key→Auto. air exhaust→Sterilization→(Drying)→Completion…full automatic			
	Timer	Sterilization : 1~999min. & continuous		Sterilization or drying : 1~999min. & continuous	
	Start timer	Able to set the operation-start by calender . . . month,day,hour and minute.			
Ster.system	System	Saturated steam generating system by stainless pipe heater & air exhaust device			
	Air exhaust device	Electronic & magnetic system (Temperature & time free steaming system)			
	Drain valve	Automatic magnetic valve (DP models) & manual valve			
Drying system	System	Hot air circulating by drying heater and pump			
	Micro filter	—			
	Drying Temp.	0.2 μm cartridge filter (area…500cm ²) 60~180°C adjustable(standard…130°C)			
-W models	Auto. water supply	Automatic water supply system from city water by level sensor and controller			
	Pre-heat system	40~60°C adjustable (standard…60°C) Pre.heating ON~OFF switch and indicating lamp			
Option	Vacuum pump	Water sealed type 200W			
	Rapid cooling system	Chamber cooling system by 3 fans & controller		—	
Safety	Water lack preventor	Automatic cut-off system by a sensitive thermostat(warning by indicator ER-1 & electronic sound)			
	Sensor break	Automatic cut-off of heater operation(warning by indecator ER2 & electronic sound)			
	Lid lock monitor	For all 4 handles …Operation starts only after checking all lid handles rock			
	Lid safety cover	Heat-resisting molded resin			
	Safety switch	Automatic cut-off of mother relay to heater by a over-pressure safety switch			
	Safety valve	0.18MPa (1.8kg/cm ²)			
	Water test press.	0.36MPa (3.6kg/cm ²)			
	Press.vessel standard	〔Small Pressure Vessel〕 by Japan Pressure Vessel Law			
		Breaker for slight leakage & over current Insulation : 100MΩ ~ Voltage resistance : 1,500V-1min.			
Material		Chamber & lid : SUS304, Lid gasket : Silicon rubber, Outer panel : Steel with baked enamel finish			
Electricity (50/60Hz)		220~240V, 1 φ, 3.6KW	220~240V, 1 φ, 4.0KW	220~240V, 1 φ, 3.6KW	220~240V, 1 φ, 4.0KW
Outer size W×D×H		59×90×83(154)cm	59×108×83(154)cm	59×90×83(154)cm	59×108×83(154)cm
		92(128)kg	106(146)kg	102(138)kg	116(156)kg
Accessories	Trays	Drawer trays with sliding rollers (Lower & Upper) 2 pcs. & Middle tray 1 pc.			
	Others	Stainless drain hose, Water supply hose (-W models), Lid drain receiver			
	Cabinet wagon	(Option)	W59×D76×H71cm, Closed structure, Outer total height(154)cm 4 casters & level adjusters, 2 shelves		

● Specifications subject to change without notice for improvement.



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