

Automatic

CL-32 CL-40 series

40~140°C, 37 & 54L CL-32S&L models

40~137°C, 60~105L CL-40S,M&L models

With warm air drying-DP models



Quick lock lid Lid interlock Light lid -up -down

More safety and more ease!

*QUICK LOCK LID

By the central lock lever, you can easily lock the lid with fingertip. The lid is lightened up and down by the automatic hinge.

★ LID INTERLOCK

The lid is locked reliably during operation and cooling down to the safe temperature.

★ELECTRO MECHANICAL LOCKING SYSTEM

This function brings more safety to operator by locking the lid at the power failure or in the power OFF, to prevent operator from contamination by contacting un-sterilized objects carelessly. Locking is released only on standby state in the power ON.

★GRAPHIC DISPLAY

The current process is indicated clealy.

★TIMED FREE STEAMING

This reliable automatic air exhaust system guarantees always sure sterilization under pure steam exposure.

***ADJUSTABLE AUTO, EXHAUST**

After sterilization process, steam is slowly released or cooled by the key set especially for liquid bottles.

★WARMING & DISSOLVING OF CULTURE MEDIUM

Warming after sterilization and dissolving of culture medium.

★LIGHT TO USE ··· -S models

-32S and -40S models have very low loading heights especially for heavy objects such as liquid bottles.

It is possible to work with light steps.

★START-TIMER BY CALENDER

You can set operation start by month, day, hour and minute. The sterilized objects can be taken out at your work-start.

★ MEMORY BACK UP

Even on a power failure, the process progress is memorized. When the power is returned, it is re-displayed.

★ COMPLIANCE WITH EMC

(ELECTROMAGNETIC COMPATIBILITY) REQUIREMENTS

These products comply with EMI requirements which must not radicate radio waves to surrouding electro instruments, and more, comply with EMS requirements which must have immunity from radio waves of surrounding electro instruments. The EMC test of CL series is based on IEC 61326(2002).

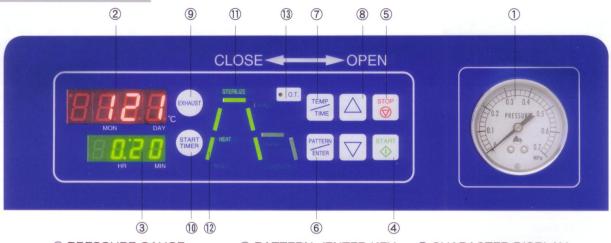
★WARM AIR DRYING… -DP models

By warm flow through $0.2\mu m$ micro-filter, the sterilized objects can be dried clearly and cleanly.

The vacuum-drying models(CLG series) with pulse prevacuum system by the vacuum pump are also prepared.



OPERATION PANEL



- 1) PRESSURE GAUGE
- **② TEMPERATURE DISPLAY**
- **③ TIME DISPLAY**
- **4** START KEY
- **5** STOP KEY

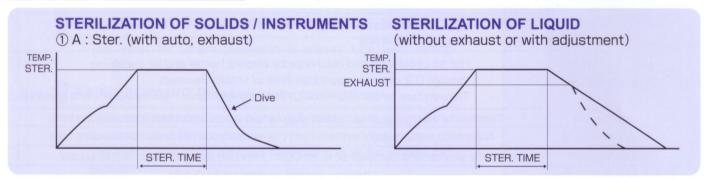
- 6 PATTERN/ENTER KEY
- TEMP/TIME KEY
- **® CHANGE KEY**
- **(10)** START TIMER KEY
- 1) CHARACTER DISPLAY
- 1 PROCESS LINE DISPLAY

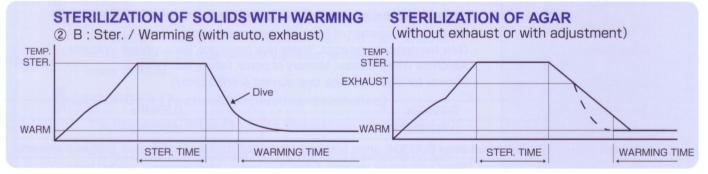
OPTION

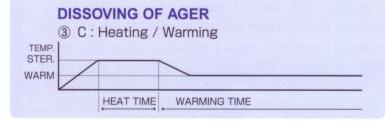
(13) OBJECT TEMP. KEY

OPERATION PATTERNS

It can be chosen from 3 patterns (-DP 5 patterns) according to your purposes. Once changed the values are stored, even if the power is switched off.



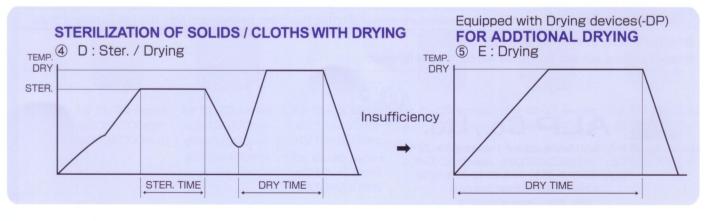




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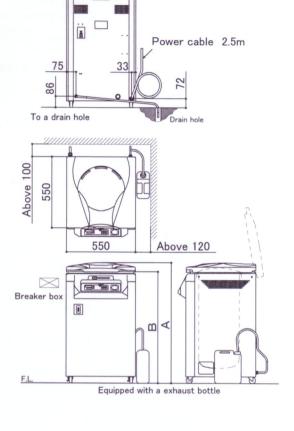
If a lot of materials difficult of air-exhaust, such as many small containers in sterilization bags, are sterilized at usable maximum temperature, pressure inside the chamber must increase and the over pressure detector may operate.

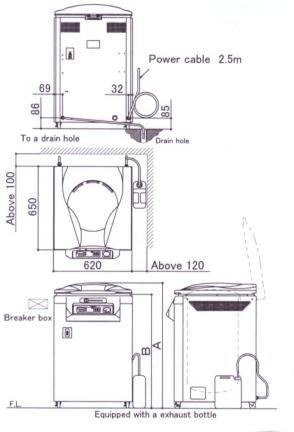
Then, it is requested to decrease the set temperature a little (about 3°C or more).



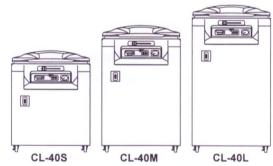
Model		CL-32S	CL-32L		
Total height	Α	790	950		
Loading height	В	720	880		

Model	CL-40S	CL-40M	CL-40L
Total height	790	990	1140
Loading height	700	900	1050









LOADING CAPACITY FOR LABORATORY FLASKS

	100ml	200ml	300ml	500ml	1,000ml	2,000ml	3,000ml	5,000ml
Round flasks Dimension	201 \$\phi 66	156 080 080	φ90 8 <u>4</u> <u>Γ</u> <u>Γ</u>	τ <u>π</u> Δ	\$12 \$\frac{134}{\phi}\$	0 22 φ172	305	00 00 00 00 00 00 00 00 00 00 00 00 00
in CL-40 stainless wire basket								
	23pcs.	16pcs.	12pcs.	8pcs.	5pcs.	3pcs.	1рс.	1рс.
in CL-32 stainless wire basket								
	14pcs.	9pcs.	7pcs.	5pcs.	3pcs.	1 pc.	1 pc.	1 pc.

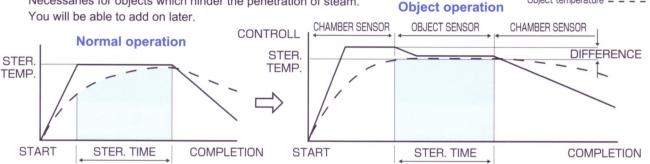
OPTIONAL FUNCTIONS

OBJECT TEMPERATURE SENSOR (For reliable sterilization)

The timer begins to move only after the temperature mesured by the object temperature sensor reaches the set temperature.

Necessaries for objects which hinder the penetration of steam.

You will be able to add on later.



AUTOMATIC WATER SUPPLY (To save your manual water supply)

In stead of troublesome check and manual supply of water before operation, proper quantity of water is automatically supplied.

PRE-HEATING (To shorten the heating-up time)

The water for steam generation is always kept near boiling condition.

RAPID COOLING (To shorten the cooling time)

When the sterilization process is completed, the cooling fan is operated to cool the chamber.

The cooling time which occupies the majority in all the process can be much reduced.

PRINTER (To manage the sterilization temperature)

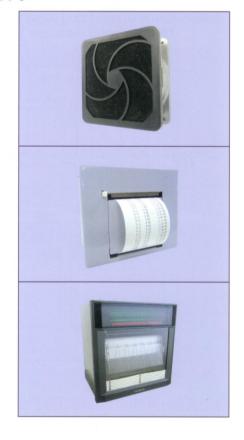
It prints out the date and time of operation start, and 2 temperatures of the sensor in the chamber and the object temperature sensor, in every 1 minute.

RECORDER (To check temperature distribution)

The temperature distribution in the chamber can be measured in the combination with 3 sensors.

It is the hybrid type which can be recorded up to 5 temperature and 1 pressure.

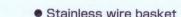
We can submit documents for validation requirements.



Chamber temperature -

Object temperature - - - -

STANDARD / OPTIONAL ACCESSORIES





for CL-32 series φ300×200mm φ300×300mm



for CL-40 series φ380×200mm φ380×300mm φ380×400mm

Basket with pan



for CL-32 series φ270×400mm φ270×600mm for CL-40 series φ370×400mm

φ370×600mm

Stainless bucket



for CL-32 series φ270×270mm





for CL-32 series φ240×240mm

for CL-40 series φ330×270mm

 Stainless dressing drum



for CL-32 series φ270×180mm for CL-40 series

φ360×240mm

SPECIFICATIONS

Autoclave CL/CL-DP series

del	Basic	CL-32S	CL-32L	CL-40S	CL-40M	CL-40L		
Model	With warm air drying	CL-32SDP	CL-32LDP	CL-40SDP	CL-40MDP	CL-40LDP		
Ch	amber(usable inner size) Capacity	φ320×420mm 34L	φ320×676mm 54L	φ400×478mm 60L	φ400×832mm 105L			
	Usable maximum temperature pressure	1	0°C 'MPa	137°C 0.25MPa				
	Usable temperature	Sterilization: 40~140°C Sterilization: 40~137°C Dissolving: 40~99°C, Warming: 40~60°C						
	Usable time	Sterilization, Dissolving: Omin.~10hrs. 00min. and continuous, Warming: Omin.~48hrs.00min						
	Controller	Microprocessor controller, graphic display Temperature…3digits, PID control						
A : Heating→Sterilization→Exhaust(adjustable) B : Heating→Sterilization→Exhaust(adjustable)→Warming C : Dissolving→Warming								
dels	Operation pattern with drying	D : Heating→Sterilization→Drain→Drying E : Only drying						
-DP models	Drying devices	Hot air circulating and discharge by electric heater and air pump through 0.2 μ m micro cartridge filter of untake passage Temperature range : 60 \sim 180°C, Timer range : 0min. \sim 99hrs.59min. and continuo						
	Air exhaust device	Temperature sensing·time control & solenoid valve(Timed free steaming system)						
u C	Auto. water supply	Automatic water supply system from city-water-faucet by level sensor controller						
Option	Pre-heat system	To shorten the come-up time, at 60°C . Provided only with auto. water supply.						
0	Rapid cooling system	Chamber cooling system by 1~2 fans						
Safety	Safety devices	Interlock system, Electro mechanical lock system Double check system of lid close, Over pressure detector Over temperature detector, Water lack preventor, Sensor break indicator Abnormal time indicator, Memory of power failure, Safety valve Breaker for slight leakage, over current & short circuit						
	Safety valve operation	0.29	0.29MPa		0.27MPa			
	Water test pressure	0.58	MPa	0.54MPa				
Material	Chamber & lid	Stainless steel	SUS304, shiny polis	shed. Modeld silicon	rubber lid gasket (se	elf-seal system)		
Mai	Outer panel	Steel with baked melamin finish. Top panel : Heat-resisting molded resin						
	Power requirement	AC220 / 230 / 240V, 1 phase						
	(50/60Hz)	12A	12A	18A	18A	20A		
Outer dimensions WXDXH Weight		550×550×790mm 56kg	550×550×950mm 60kg	620×650×790mm 72kg	620×650×990mm 78kg	620×650×1140mm 84kg		
ories	Stainless wire	φ300×200×2pcs.	φ300×300×2pcs.	φ380×200×2pcs.	φ380×300×2pcs.	φ380×400×2pcs.		
Accessories	basket	Standard for CL-32S~CL-40L models. Optional for all CL-DP models.						
(Optional accessories	Object tempe	rature sensor, Printe	er, Recorder, Basket	with pan, Bucket, D	ressing drum		

- Please specify the voltage when you order.
- Specifications subject to change without notice for improvement.



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