

AUTOMATIC

AUTOCLAVE

KT-40 series



Model	Big Size	High Ability
KT-40S	...40cm ϕ ×50cm depth (62 ℓ)	
KT-40	...40cm ϕ ×65cm depth (82 ℓ)	0.16MPa, 127℃
KT-40L	...40cm ϕ ×83cm depth (100 ℓ)	



ALP CO.,Ltd.
TOKYO JAPAN

for sterilizing only (62ℓ)	model	KT-40S
for sterilizing only (82ℓ)	model	KT-40
for sterilizing only (100ℓ)	model	KT-40L
for sterilizing and drying	model	KT-40SD, 40D & LD

Big size and high ability

- Have chamber of 40 cm dia x 50~83 cm depth (62ℓ~100ℓ), so 24~48 vial bottles of 500ml can be located in at the same time.
- As the ability is 0.16MPa, 127°C, high-speed sterilizing can be secure.

Soft and safe lid system

- The lid can be opened and closed softly with your one hand, yet securely due to the six handles, sub-rings and the self-closing silicon rubber gasket.
- The lid is lightened by being pressed, keeping enough strength with reasonable reinforcements. The up-opening system occupies minimum space.
- As the grip of the lid is put diagonally (left or right ...exchangeable), steam does not pour out directly to you at opening it. The shape of the handle and the whole low height (surface 82 cm) are elaborately considered for your easy use.

Automatic operation

- By just closing the exhaust valve and setting the timer, you get fully automatic performances from start to finish.
- Automatic air exhaust valve guarantees perfect sterilization under pure steam exposure.
- Timer begins to move only after the set pressure/temperature is reached, buzzer announces sterilizing (and drying) completion and electricity cuts off.
- Automatic pressure/temperature regulator.

One touch setting of sterilizing temperature

- Before operating, you can select and set sterilizing temperature by the control knob. So you need not adjust it in sterilizing operation. Also change of temperature (ex. 121↔110°C) is one-touch.

Prevention of water lack

- The sensitive thermostat mounted on the surface of immersion-type sheathed heater, cuts off immediately the electrical source in case of water lack, and the buzzer sounds continuously (also red lamp goes on ...-40S~L). And even after the chamber cooled, the heater does not operate until you reset the timer.

Safety

- Shiny polished SUS-304 stainless steel chamber and pressed lid with reasonable reinforcements, passed through water pressure test (0.36MPa ... twice as high pressure as safety valve).
- Pressure safety valve with enough inner diameter and stainless spring, operates surely at 0.18 MPa in case of abnormal pressure rise and the pressure safety switch cuts off heater operation.
- Highly reliable pressure regulator and electrical parts selected after years of testing.
- Safety breaker cuts off the electricity source in case of short circuit, over current or even a slight electricity-leakage of the heater, etc.

Exhaust and Drain

- As the needle exhaust valve can finely exhaust steam in the chamber, you can sterilize capped bottles.
- As the drain valve and piping of large diameter can pour out dust and dirty water in the bottom, you can keep the chamber-inside clean.

Lid safety cover ... - C models

- Lid safety cover is provided for prevention of your unexpected burn with touch of the hot lid in operation. The soft-coated grips of the lid are mounted diagonally both right and left.

Drying system ... model KT-40SD, 40D & 40LD

- Band heaters fixed around the chamber and covered with glass-fiber insulation, ensures drying of sterilized wet materials.
- The drying process can be done by turning the drain-valve-knob after completion of sterilizing so that hot water inside the bottom of chamber pour out, by turning the switch from STERILIZE to DRYING after you recognize the pressure zero, and by turning again the timer-knob to the set time for drying.
- Timer begins to move only after the inside temperature reaches at the drying set temperature (usually 130°C ...adjustable).

1 Sterilizing Temperature Selector



One touch setting – you need not adjust in operation.

Also if you move the dial clockwise, it stops at the stopper so that inner pressure does not rise above 0.16 MPa.

2 Pressure Gauge

showing actual inside chamber temperature

4 Water-lack Pilot Lamp (red)

In case of water lack, this lamp goes on, the buzzer sounds and the heater cuts off. Even after the chamber cooled, the heater does not operate until you reset the timer.

5 Timer (60 min.)

6 Safety Breaker

for short circuit, over current and slight leakage

7 Sensitive Exhaust Valve

8 Drain Knob

9 Stainless Drain Hose (1m)

3 Sterilizing Pilot Lamp (green)

- In case of models with drying, pilot lamps are shown under here.



10 Safety Valve

11 Smooth Handle fit your hand

12 Stainless Steel Double Lid

13 Lid Safety Cover (-C models)

14 Self-closing Silicon Rubber Gasket

15 Lid Grip

16 The fully removable Side Covers

allow easy inspection and maintenance.

17 Casters

18 Stainless Wire Basket

37 ϕ \times 20cm \times 2 pcs.(-40S), 3 pcs.(-40) or 4 pcs.(-40L)

12 bottles of 500ml can be put in each basket (total 24, 36 or 48 bottles)







Model KT-40C



- 37 ϕ \times 30cm or 37 ϕ \times 40cm baskets are also prepared.

Specifications

Autoclave **KT-40** series

Model		KT-40S KT-40SC	KT-40SD KT-40SDC	KT-40 KT-40C	KT-40D KT-40DC	KT-40L KT-40LC	KT-40LD KT-40LDC
Use		Sterilizing	Sterilizing Drying	Sterilizing	Sterilizing Drying	Sterilizing	Sterilizing Drying
Chamber (inner dia.×depth) (Usable capacity)		40 φ×50cm (62 ℓ)		40 φ×65cm (82 ℓ)		40 φ×83cm (100 ℓ)	
Ability	Usable press.	0.16MPa(1.6kg/cm ²)					
	Usable max. temp.	127℃					
	Adjustable	105~127℃					
	One-touch setting temp.	110,115,121 & 127℃					
Sterilization system	System	Saturated steam generated by sheathed electric heater					
	Main controller	Precise pressure switch					
	Temp. set system	Analog temperature set on the panel of pressure switch					
	Temp. indicator	Saturated steam scale on the panel of pressure gauge					
	Timer	1~60 min. (Operates after the set temperature is reached.)					
	Operation	Start→Remained air exhaust→Sterilization→Completion…full automatic					
	Operation-start	Operation starts at the moment the timer is set					
	Air exhaust valve	Automatic exhaust system of remained air by heat expansion bellows valve					
	Exhaust valve	Manual needle valve being opened only in required rapid exhaust					
Drain valve	Manual ball valve (Inner dia. : 10mm)						
Drying	System	—	Band heaters	—	Band heaters	—	Band heaters
	Drying temp.	—	130℃	—	130℃	—	130℃
Safety	Water lack preventor	Automatic cut-off system by a sensitive thermostat (Warning by buzzer and lamp)					
	Safety switch	Automatic cut-off of heater relay by 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 Japanese authorized regulation					
	Electric safety	Over current & slight leakage breaker Insulation : 100MΩ~(500VDC)					
	Lid safety cover	Only on - C models Heat resisting resin					
Material	Chamber & lid	SUS304 Lid gasket : Molded silicon rubber					
	Outer panel	Steel with baked enamel Caster (front two with stopper)					
Electricity	Voltage	AC220~240V, 1 φ (3 φ), 50/60Hz					
	Consumption	3.6kW(4.5kW)				4.0kW(4.5kW)	
Outer size W×D×H		73×57×76cm		73×57×91cm		73×57×109cm	
Weight		45kg	49kg	60kg	64kg	80kg	86kg
Accessory	Wire basket	37φ×20cm×2pcs.	Option	37φ×30cm×2pcs.	Option	37φ×40cm×2pcs.	Option
	Hose	Stainless flexible drain hose (Inner dia. 10mm)					
Option	● Stainless wire basket	 37φ×20cm 37φ×30cm 37φ×40cm					
	● Stainless bucket	 36φ×30cm					
Option	● Dressing drum	 33φ×27cm with plain lid					
		 27φ×18cm 36φ×24cm					

● Specifications subject to change without notice for improvement.



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