

RETORT STERILIZER

for Research & Development

RK-3030

High retort 140°C sterilization is possible

1. Low retort : 80-100°C, 0.01-0.03MPa
2. Regular retort : 110-127°C, 0.13-0.20MPa
3. High retort : 130-140°C, 0.24-0.34MPa

By the button on control panel, you can select the daily operation condition. The setting value of button is variable by the key of controller.

Steam sterilization or hot water sterilization can be selected by the switch

Water level control inside chamber is switched for each sterilization. After water is supplied automatically up to the appropriate water level, heater operates to preparation heating state(90°C...variable), then informed and kept.

Preparation heating to shorten come-up time

Open the lid when the chamber is ready in pre-heating state, put the objects in the chamber, close the lid, and start sterilization. Shortening come-up time can keep the taste and quality of food.

Precise pressure control system

By precise digital pressure controller, pressure is controlled in unit of 0.001MPa during sterilization and especially in cooling process after sterilization. This can surely realize no deformation or burst of the sterilized pouch or pack.

Multistage pressure control

In addition to normal constant pressure control, the 2-step pressure control can be selected according to temperature of heating and cooling process of pouch. You can obtain better test result about deformation or sealing performance.

Cooling function with temp.-controlled water shower

Cooling water is stored in tank controlled at room-temp. to 70°C, and poured into the chamber by pump through 3 spray nozzles at lid center and upper side wall of chamber uniformly. This prevents even small deformation of pouch from rapid condensation.

OPTIONAL FUNCTIONS

Recorder (Paperless 12 CH type)

Internal temperature and pressure of chamber, up to 4 points temperature of the objects and F-values are recorded and displayed. These data can be taken into PC by USB memory.

F-value management operation

The sterilization process can be stopped when F-value of the control sensor and object temperature sensor 1 & 2 in the sterilized objects reach the set value individually or simultaneously.

Monitoring window / Lighting

From the window adopting the pressure/heat-resistant glass plate, the condition of pouch inside chamber can be brightly observed with light of halogen lamp located on the lid.

Hot water / Steam cooling drainage unit

This unit can cool waste hot water and steam after sterilization complete. It is possible to discharge cooled water and steam even to the vinyl chloride drain pipe facilities.



Model	RK-3030	
Chamber inner size	φ300mm×H450mm/32ℓ	
Usable max. pressure	0.34MPa	
Retort temp. range	80°C-140°C	
Controller	Digital temperature / time program controller	
Pressure controller	Digital pressure controller (minimum set value 0.001MPa)	
Pressurizing device	Air compressor (Located separately) (By factory air : option)	
Cooling method	Shower injection through 3 nozzles on lid and chamber by pump	
Cooling water tank	Stored water is controlled at room temp. -70°C	
Water supply	Automatic to chamber & water tank from city water tap	
Operation process	Pre-heating → Loading objects → Heating → Pressurizing / Sterilization → Pressure holding / Shower cooling → Auto. exhaust-drain → Unloading objects	
Sterilization mode	Steam sterilization ↔ Hot water sterilization is selectable by switch	
Safety devices	Water lack preventer, Water tank lack preventer, Water supply error detector, Over pressure detector, Safety valve, Lid lock check, Leakage breaker	
Safety valve operation pressure	0.37MPa	
Material	Chamber / Lid : SUS304 Stainless Outer plate : Steel with melamine baking finish	
Outer dimensions/Weight	W1050×D470×H1000mm/110kg	
Accessories	Exhaust / Drain hose, Pressure-resistant hose for water supply	
Options	Recorder, Object temperature sensor, Stainless wire basket, Monitoring window / Lighting, Hot water / Steam cooling drainage unit	
Necessary utility	Electricity	AC220/230/240V, 1 phase, 40A
	Water supply	City water piping 3/8B
	Drain	Heat-resistant(130°C) piping or pit

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



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ISO9001



ISO13485