

Model JSAT-45, JSAT-65, JSAT-85, JSAT-105 : Autoclave, Vertical



JSAT-Series Autoclave, Steam Sterilizer is for sterilization of bacteria, microorganism and virus with steamed hot air usually at +121 °C, 0.12 Mpa.

Sterilization for laboratory ware needs being sterilized before use such as flasks, bottles, pipets, animal cages and plastic wares, broth or agar media for bacterial culture or disposal of biohazard wastes such as syringes, cloth, gloves or Petri dishes.

Model JSAT-105, JSAT-85, JSAT-65, JSAT-45

MAIN FEATURES

Performance

Maximum sterilization temperature and pressure up to 123 °C and 0.13 Mpa

Automatic sterilization cycle starts just by setting sterilization temperature and time

Validation compliance performance with accuracy within ± 0.5 °C and uniformity within ± 2.0 °C

Controller

± 0.1 °C Digital PID Controller

Automatic START/STOP timer

Dual LED displays temperature and remaining time

Temperature calibration function

Auto-tuning function

Class A Pt-100 Ω sensor

Construction

Vertical loading type chamber with 2 ea service baskets

Light weight self balanced door

SAFETY DOOR INTER-LOCKING SYSTEM lock the door during operation which integrated with temperature, pressure in the chamber and in case electric cut-off

Stainless steel 304 (AISI 304) chamber, lid and top plate to protect from corrosion by water and steam

Special plated heating element provides resistant to dry-burn, corrosion and guarantee long life in repeated use

Two Stainless Steel Wire Basket included

Convenience

Steam collection bottle removes most of steam generated during operation for comfortable laboratory environment
Equipped with drain valve for cleaning and changing with fresh water
High pressure and temperature resistant silicone gasket
Built-in analog pressure gauge
Manual pressure release valve
Caster for easy transport

Safety

SAFETY DOOR LOCK

Door interlocking system integrated with high temperature, pressure and electric cut-off

TRIPLE OVER-TEMP. CUT-OFF

Controller cut-off heater and AUDIO VISUAL ALARMS in case +2 °C above set temperature

MAX TEMP CUT-OFF heater and AUDIO VISUAL ALARM when +1 °C above maximum limit (123 °C)

Analog system cut-off heater 10% above set temp.

TRIPLE OVER-PRESSURE CUT-OFF

Controller open valve to release excess pressure and AUDIO VISUAL ALARM in case +2 °C above set temperature

Controller open valve to release excess pressure and AUDIO VISUAL ALARM in case +1 °C above maximum limit +123 °C

Mechanical over pressure valve automatically release excess pressure in case over maximum pressure limit 0.15 Mpa

ANALOG PRESSURE GAUGE

0 ~ 0.3 Mpa pressure gauge indicating actual pressure

MANUAL PRESSURE RELEASE VALVE for emergency

OVER CURRENT CUT-OFF : Electrical Leakage Breaker

Warranty

1 Year

SPECIFICATIONS

MODEL	JSAT-45T	JSAT-65T	JSAT-85T	JSAT-105T
Performance Data				
Temperature Range	MAX. +123°C			
Accuracy	± 0.5 °C at +121 °C			
Uniformity	± 2.0 °C at +121 °C			
Operating Pressure Range	up to 0.12 MPa			
Pressure Gauge Range	0 ~ 0.3 MPa			

Controller	
Type	Microprocessor PID control Auto START / STOP Timer
Sensor	Class A PT-100 Ω Sensor
Timer	99min 59sec by 1 sec division
Display	PV and SV or Timer Dual Display Independent ON/OFF Switch
Printer	Thermal Printer [OPTION]

Capacity and Dimensions				
Capacity	45 Liters	65 Liters	85 Liters	105 Liters
Inner Dims. (Dia. x H) mm	Ø350 x H490	Ø350 x H680	Ø450 x H535	Ø450 x H665
Outer Dims. (W x D x H) mm	555 x 670 x 955	555 x 670 x 1105	655 x 780 x 1010	555 x 780 x 1110
Usable Dims. (Dia. x H) mm	Ø350 x H410	Ø350 x H620	Ø450 x H480	Ø450 x H610
Basket Dims. (Dia. x H) mm	Ø330 x H190	Ø330 x H280	Ø430 x H220	Ø430 x H270
Basket	Electro-polished Stainless Steel 304 wire basket			
No. of basket included	2 EA	←	←	←

Safety Data	
Safety Device	Over Temperature Cut-Off Over Pressure Cut-Off Over Current Cut-Off

Material Data	
Body	Epoxy Powder Coated Steel, 1.0 mm thickness
Chamber, Lid, Top Plate	Stainless Steel 304
Gasket	High Density One-piece Silicone

Electrical Data

Rated voltage [VAC]	220 ± 10%			
Power frequency [Hz]	50/60			
Nominal power [kW]	2.0	3.0	4.0	5.0
Power Rating [Amp]	9.2	13.7	18.2	22.8
Phase (Nominal voltage)	1~	←	←	←
Plug configuration	CEE 7/7 Schuko or BS 1363			

Usable Condition

Temp. & Humidity	5°C - 40°C, < 80% RH
Altitude	Less than 1,000 m above sea level

Standard Accessories included

Heater Cover	1	←	←	←
Stainless Steel Wire Basket	2	←	←	←
Steam Collection Bottle	1	←	←	←
Operation Manual	1	←	←	←
Warranty Certificate	1	←	←	←

Packaging Data

Shipping Dims. (W x D x H mm)	740 x 650 x 1130	740 x 650 x 1280	850 x 750 x 1180	850 x 750 x 1280
Type of packaging	Carton on a wooden palette			
Net Weight (kg)	86.0	93.0	113.0	120.0
Shipping Weight (kg)	101.0	116.0	130.0	138.0

ORDERING INFORMATION

Art. No.	Descriptions	Voltage
JSAT-45	Autoclave, 45 Liters	220 VAC 1~ ph 50/60Hz
JSAT-65	Autoclave, 65 Liters	220 VAC 1~ ph 50/60Hz
JSAT-85	Autoclave, 85 Liters	220 VAC 1~ ph 50/60Hz
JSAT-105	Autoclave, 105 Liters	220 VAC 1~ ph 50/60Hz

ACCESSORIES

Art. No.	Descriptions	Component
PER-A08	Thermal Printer [Factory built-in]	
PHG-A05	Stainless Steel 304 Wire Basket for JSAT-45, JSAT-85, ø350 mm	
PHG-A06	Stainless Steel 304 Wire Basket for JSAT-65, JSAT-105, ø450 mm	

JS RESEARCH INC.

Gongju-City, Korea

TEL +82 41 856 3677

FAX +82 41 856 3679

info@jsresearch.co.kr

www.jsr.kr