

## Model JSAT-85 : Autoclave, Vertical



JSAT-105

JSAT-85

JSAT-65

JSAT-45

JSAT-Series Autoclave, Steam Sterilizer is for sterilization of bacteria, microorganism and virus with steamed hot air 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.

### 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  $\pm 0.5$  °C and uniformity within + 2.0 °C above 121 °C

#### CONTROLLER

- JSC-2D Digital PID Controller with  $\pm 0.1$  °C resolution
- Automatic START/STOP timer
- Dual LED displays temperature and remaining time
- Temperature calibration function and Auto-tuning function
- Class A Pt-100  $\Omega$  sensor

## CONSTRUCTION

- Vertical loading type chamber with 2 ea service baskets
- Light-weight lifting 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 corrosion and guarantee long life in repeated use
- Two Stainless Steel Wire Basket included

## CONVENIENCE

- Two steam collection bottles 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 with 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 +0.1 °C above 125 °C
- 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 +0.1°C above +125°C
  - Mechanical over pressure valve automatically release excess pressure in case over maximum pressure limit 0.15 Mpa
- ANALOG PRESSURE GAUGE
- Analog system cut-off heater 10% above set temp.
- 0 ~ 0.3 Mpa pressure gauge indicating actual pressure
- MANUAL PRESSURE RELEASE VALVE for emergency
- OVER CURRENT CUT-OFF : Electrical Leakage Breaker

## SPECIFICATIONS

**MODEL** JSAT-85T

### Capacity and Dimensions

Capacity	85 Liters
Inner Dims. (Dia. x H) mm	φ450 x H535
Outer Dims. (W x D x H) mm	610 x 780 x 1010
Usable Dims. (Dia. x H) mm	φ450 x H480
Basket Dims. (Dia. x H) mm	φ430 x H220
Basket	Electro-polished Stainless Steel 304 wire basket
No. of basket included	2 EA

### Performance Data

Temperature Range	up to +123 °C
Accuracy	±0.5 °C at 121 °C
Uniformity	within +2.0 °C above 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]

### Safety Data

Safety Device	Safety door lock Triple over temp. cut off Triple over pressure cute off Analog pressure gauge Manual pressure release valve for emergency Over current cut-off : Electrical Leakage Breaker
---------------	---

**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]	3.0
Power Rating [Amp]	13.6
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 )	850 x 750 x 1180
Type of packaging	Carton on a wooden palette
Net Weight (kg)	113.0
Shipping Weight (kg)	130.0

**ORDERING INFORMATION**

Art. No.	Descriptions	Voltage
JSAT-85	<b>Autoclave, 85 Liters</b> including standard accessories 1 ea x Heater Cover 2 ea x Stainless Steel Wire Basket 2 ea x Steam Collection Bottle 1 ea x Operation Manual 1 ea x Warranty Card	220 VAC 1~ ph 50/60Hz

**OPTIONAL ACCESSORY**

Art. No.	Descriptions
OER-020	Thermal Printer, Time/Date/Temp. Recording [Factory built-in]

**SPARE ACCESSORIES**

Art. No.	Descriptions
PHG-A06	Stainless Steel 304 Wire Basket for JSAT-85, ø450 mm
PHC-A02	Heater Cover for JSAT-85
PHG-A06	Silicone Gasket for JSAT-85
PHB-A06	Steam Collection Bottle for JSAT-85

**JS RESEARCH INC.**

Gongju-City, Korea  
 TEL +82 41 856 3677  
 FAX +82 41 856 3679  
 info@jsresearch.co.kr  
 www.jsr.kr