Autoclaves (Vertical Type)

Microprocessor control with reliable safety functions guarantees optimum sterilization temperature.

ST-65G

Standard accessories • Baskets (2ea), Heater cover, Exhaust tank, Drain bucket

Optional accessories • Pressure sensor, Recorder

Performance

• Microprocessor controller and temperature calibration function allows for high precision temperature control.
 - Sterilization temperature at 110 to 123°C
 - Melting* temperature at 60 to 100°C
   * Liquefaction of coagulated agar media.

• Automatic sterilization system for unattended operation.
 - Heating > Check safe > Sterilization > Sterilization safe
  > Exhausting > End

• Convenient operation modes for various uses.
 - Standard modes and program modes are listed in detail as below tables.

• Temperature calibration function.

Standard modes	Temp. (°C)	Time (min.)
Decontamination	121	35
Solids sterilization	121	20
Liquids sterilization	121	15
Melting	100	30

Program modes	Temp. (°C)	Time (min.)
Sterilization 1	110 to 123	1 to 999
Sterilization 2	110 to 123	1 to 999
Liquid sterilization	110 to 123	1 to 999
Melting	60 to 100	1 to 999

Over Temp.

Convenience

· Conveniently monitored by an independent control display, sterilization process display, and pressure gauge.
- VFD for visualization of temp, pressure (optional), timer, warning alert checks.
- LED lamps for sterilization process check.
- Easy pressure check with the standard gauge attached to the front.

· Vertical type autoclaves which allow for top loading are suitable for high volume sterilization.
- Baskets are stackable two high or even more levels, which secure inside the chamber space requirements.

· Low-maintenance
- The chamber is constructed of stainless steel which is superiorly resistant to corrosion.
- Easy to replace silicone gasket.

· Convenient documentation with the optional data recorder.
- Dot type recorder(6 point) allows for precise documentation.

Safety

· Mechanical safety devices
- Over current protection.
- Over temperature protection by automatic power cutoff.
- Over pressure protection by automatic and manual safety valve.

· Safety warning systems
- Over temperature warning.
- Low temperature warning.
- Low water level warning.
- Low heat warning if the temperature does not reach the sterilization or melting temperature.
- Sterilization fail warning if the operation is unexpectedly stopped during sterilization process.

· Slide opening door with plastic cover of low thermal conductivity prevents burns from the contact.

Model		ST-50G	ST-65G	ST-85G
Control		Microprocessor PID control		
Chamber volume (L / cu ft)		50 / 1.8	65 / 2.3	85 / 3.0
Temperature [1]	Sterilization temp. (℃ / ℉)	110 to 123 / 198 to 221.4		
	Melting temp. (℃ / ℉)	60 to 100 / 108 to 180		
Pressure	Sterilization at 121℃ (kg/cm²)	1.1 to 1.2		
	Gauge range in analog (Mpa)	- 0.1 to 0.6		
Safety		Over temperature protector / Pressure safety valve / Over current protector		
		Warning alert (over temp. / low temp. / low heat / sterilization fail / low water level)		
Timer		0 to 999 min.		
Dimension	No. of baskets (standard / max.)	2 / 2	2 / 2	2 / 2
	Load per baskets (Kg / lbs)	10 / 22.0		
	Basket (ØxH) (mm / inch)	380x180 / 14.9x7.1	380x230 / 14.9x9.1	380x330 / 14.9x13.0
	Interior (WxH) (mm / inch)	400x458 / 15.7x18.0	400x558 / 15.7x21.9	400x758 / 15.7x29.8
	Exterior (W×D×H) (mm / inch)	624x672x870 / 24.6x26.5x34.2	624x672x971 / 24.6x26.5x38.2	624x672x1083 / 24.6x26.5x42.6
	Exterior with exhaust tank (W×D×H) (mm / inch)	722x672x870 / 28.4x26.5x34.2	722x672x971 / 28.4x26.5x38.2	722x672x1083 / 28.4x26.5x42.6
	Net weight (Kg / lbs)	94.5 / 208.3	99.5 / 219.4	104 / 229.3
Electrical requirements (230V, 50 / 60 Hz)		14.3A	14.3A	14.3A
Cat. No.		**AAHL1015K**	**AAHL1025K**	**AAHL1035K**

1) Technical data according to EN 554 / BS EN 285:1997.
※ Permissible environmental conditions: temperature (5-40℃) and relative humidity (10-80%).
※ FDA establishment registered company. FDA listed products.

Max. Loading Capacity of Erlenmeyer Flask			
Capacity ml, (O.D.xH, mm)	ST-50G (ea x floor)	ST-65G (ea x floor)	ST-85G (ea x floor)
250 (82x132)	14x3	14x4	14x5
500 (101x176)	14x3	8x3	8x4
1000 (129x216)	5x2	5x2	5x3
2000 (160x268)	3x1	3x2	3x2

Max. Loading Capacity of Media Bottle			
Capacity ml, (O.D.xH, mm)	ST-50G (ea x floor)	ST-65G (ea x floor)	ST-85G (ea x floor)
250 (70x143)	20x3	20x3	20x5
500 (86x181)	14x2	14x3	14x4
1000 (101x230)	8x1	8x2	8x3
2000 (136x265)	5x1	5x1	5x2

Accessories & Options

Cat. No.	Description	Suitable for
AAAL1501	Recorder set; Recorder (dot type, 6 point) & Temp. sensor (double)	All models
AAAL1511	Pressure sensor (0~3.5 bar)	All models

Cat. No.	Description	Suitable for
ATC0002	Basket (stainless steel, Ø380x180mm)	ST-50G
ATC0003	Basket (stainless steel, Ø380x230mm)	ST-65G
ATC0004	Basket (stainless steel, Ø380x330mm)	ST-85G
AAAL1521	Exhaust Tank	All models
ATC0091	Drain Bucket (490x291x107mm)	All models