

11. AUTOCLAVE



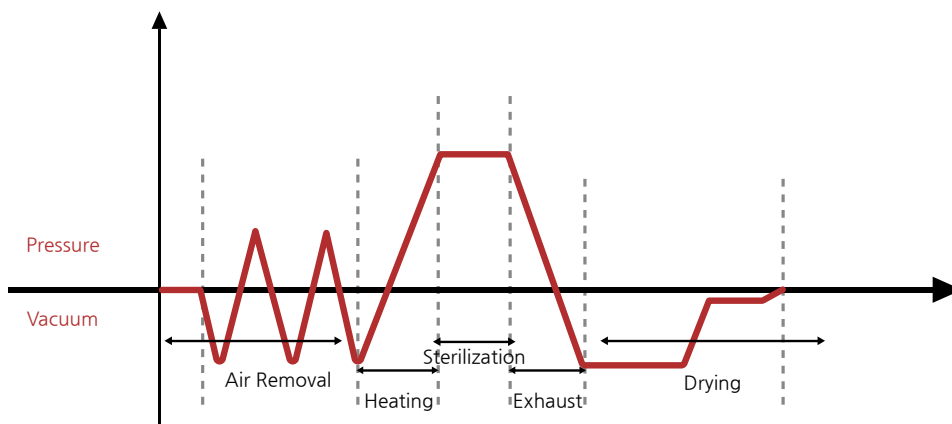
Tabletop Autoclave	131
Vertical Autoclave	136

Tabletop Autoclave

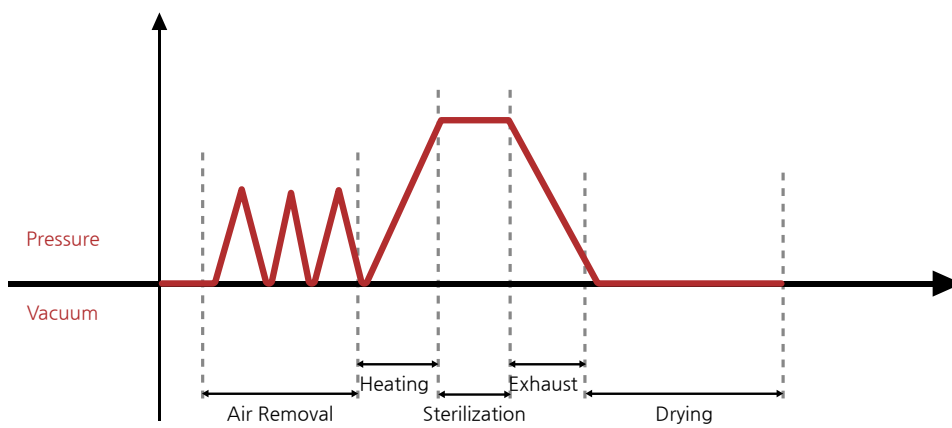
-Feature

Graphic of working cycle

■ Class B (pre & post vacuum)



■ Class N (non vacuum)

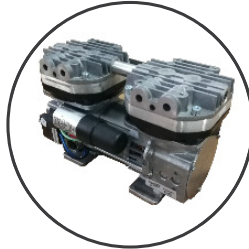


Feature



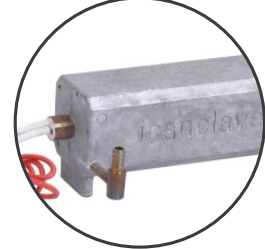
Water tank

- Convenient & accessible Water tank



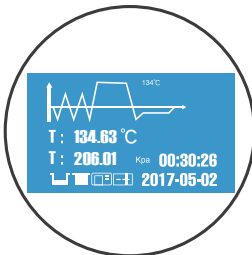
Vacuum pump

- Rapid post sterilization vacuum drying. (Class B only)



Independent steam generator

- In built independent rapid steam generator ensures quick sterilization cycles.



LCD displaying

- Fully automatic benchtop autoclave with pre set programs.
- LCD screen displaying time, temperature and pressure, process alert and instrument conditions. Liquid sterilization program
- Alarm function : Insufficient water supply or when the door is locked



Double locking device



Stainless steel chamber and trays

- European standard EN 13060 (Class B only)
- Automatically output the result of sterilization by external printer installation



Stainless steel rack (SH-AC-33B only)

• Option

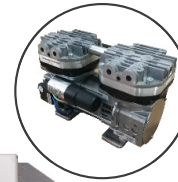


Printer

• Safety Device

- Double door protection system
- Safety relief valve
- Electric leakage circuit breaker
- Automatic water supply system
- Automatic reset function incoming power cut
- Over temperature protection device

Tabletop Autoclave



+ Vacuum pump

Rapid post sterilization vacuum drying.



Button open



Touch close

Simple opening and closing

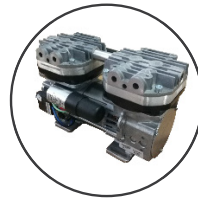
Electronic door is opened by pressing the button.

Vacuum door closed system, the door is closed properly only by pushing it softly. (AC-33B Only)

Model	SH-AC-33B
Temp Range	Max 138°C (280.4°F)
Volume	33 L
Using Press	110 to 210 kPa (1.2 to 2.1 kg/cm ²)
Temp Controller	Touch Controller
Material Internal	Stainless Steel
Tray	Stainless Steel Rack
Chamber size	Ø319x417mm
Dimension External (WxDxH)	640x640x560(mm) 25.2X25.2X22.0(inch)
USB port and USB stick	Standard
Printer	Standard(Built-in)
Net weight	95 kg
Power	2300 W

Program	Temp(°C)	Pressure(kPa)	Holding Time(min)	Total Time(min)	Type	Max, Load (kg)	Max, Load per tray (kg)
SOLID	134	210	4	23-25	Unwrapped solid material	5.00	1.50
LIQUID	121	110	30	50-70	Liquid	1.20	0.40
WRAPPED & TEXTILE	134	210	8	47-60	Unwrapped porous material	1.25	0.40
					Single-wrapped porous material	1.10	0.30
	121	110	30	45-65	Dual-wrapped porous material	0.75	0.25
					Single-wrapped hollow material	4.00	1.25
PRION	134	210	18	57-70	Dual-wrapped solid and hollow material	2.00	0.60
					Unwrapped porous material	1.25	0.40
					Single-wrapped porous material	1.10	0.30
					Dual-wrapped porous material	0.75	0.25
DRYING (Optional)	-	-	-	1-20	-	-	1
B & D TEST	134	210	3.5	35-40	-	-	-
HELIX TEST	134	210	3.5	35-40	-	-	-
VACUUM TEST	-	-	-	20-25	-	-	-

Class B AUTOCLAVE



+ Vacuum pump

Rapid post sterilization vacuum drying.



Model	SH-AC-8B	SH-AC-16B	SH-AC-18B	SH-AC-23B
Temp Range	Max 138°C (280.4°F)			
Volume	8 L	16 L	18 L	23 L
Using Press	110 to 210 kPa (1.2 to 2.1 kg/cm ²)			
Temp Controller	Touch Controller			
Material Internal	Stainless Steel			
Tray	2 EA	3 EA	3 EA	3 EA
Chamber size	∅170x320mm	∅230x360mm	∅247x350mm	∅247x450mm
Dimension External (WxDxH)	370x565x345(mm) 14.56x22.24x13.58"	445x605x410(mm) 17.51x23.81x16.14(inch)	480x700x450(mm) 18.89x27.56x17.71(inch)	480x700x450(mm) 18.89x27.56x17.71(inch)
USB port and USB stick	Standard			
Printer	Option			
Net weight	34.5 Kg	45Kg	47 Kg	51 Kg
Power	1500 W	2000 W	2200 W	2200 W

Pre-programmed cycles

Program	Temp(°C)	Pressure(kPa)	Sterilization Time(min)	Total Time(min)		
				SH-AC8B	SH-AC16B	SH-AC18B & SH-AC23B
SOLID	134	210	4	15-25	14-30	20-45
	121	110	20	25-40	30-45	35-60
LIQUID	134	210	10	25-50	30-55	35-60
	121	110	30	30-55	35-60	35-60
WRAPPED	134	210	4	20-45	30-45	45-65
	121	110	20	30-50	30-50	50-75
TEXTILE	134	210	4	20-45	30-45	45-65
	121	110	20	30-50	30-50	50-75
PRION	134	210	18	30-50	35-55	45-75
DRYING	-	-	-	1-20	1-20	1-20
B & D TEST	134	210	3.5	22-35	22-35	22-35
HELIX TEST	134	110	3.5	22-35	22-35	22-35
VACUUM TEST	-	-	-	15-20	15-20	15-20

Class N AUTOCLAVE



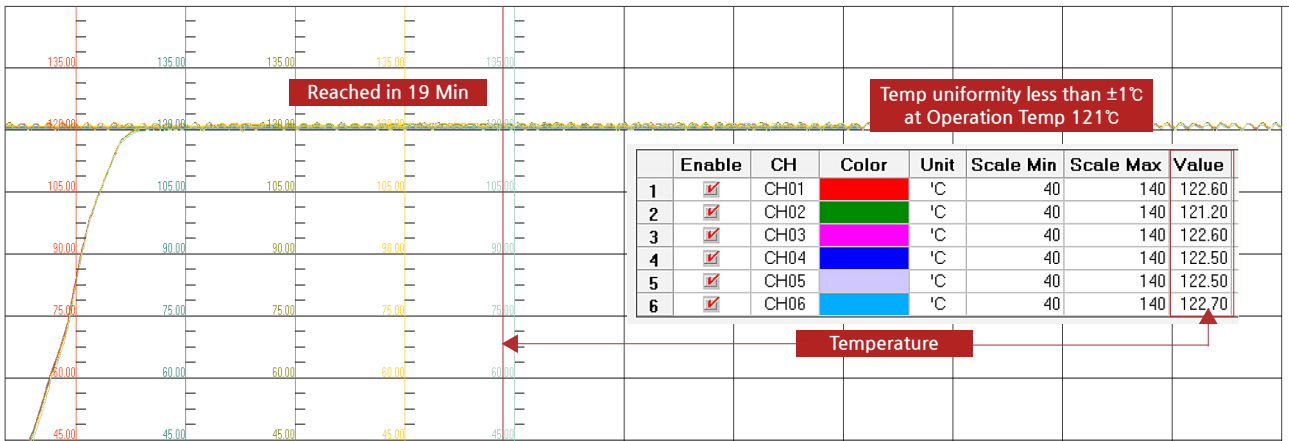
Model	SH-AC-8N	SH-AC-16N	SH-AC-18N	SH-AC-23N
Temp Range	Max 138°C (280.4°F)			
Volume	8 L	16 L	18 L	23 L
Using Press	110 to 210 kPa (1.2 to 2.1 kg/cm ²)			
Temp Controller	LCD Controller			
Material Internal	Stainless Steel			
Tray	2 EA	3 EA	3 EA	3 EA
Chamber size	∅170x320mm	∅230x360mm	∅247x350mm	∅247x450mm
Dimension External (W×D×H)	370x565x345(mm)	445x605x410(mm)	480x700x450(mm)	480x700x450(mm)
	14.56x22.24x13.58(inch)	17.51x23.81x16.14(inch)	18.89x27.56x17.71(inch)	18.89x27.56x17.71(inch)
USB port and USB stick	Standard			
Printer	Option			
Net weight	30 Kg	43 Kg	45 Kg	48 Kg
Power	1400 W	1900 W	2100 W	2100 W

Pre-programmed cycles

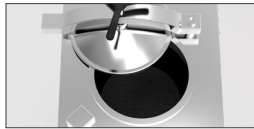
Program	Temp(°C)	Pressure(kPa)	Sterilization Time(min)	Total Time(min)		
				SH-AC8N	SH-AC16N	SH-AC18N & SH-AC23N
SOLID	134	210	4	15-25	14-30	20-45
	121	110	20	25-40	30-45	35-60
LIQUID	134	210	10	25-50	30-55	35-60
	121	110	30	30-55	35-60	35-60
WRAPPED	134	210	10	20-45	30-45	45-65
	121	110	30	30-50	30-50	50-75
TEXTILE	134	210	10	20-45	30-45	45-65
	121	110	30	30-50	30-50	50-75
PRION	134	210	18	30-50	35-55	45-75
DRYING	-	-	-	1-20	1-20	1-20

Vertical Autoclave -Feature

Uniformity sheet



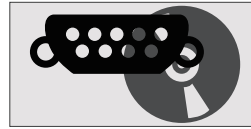
Feature



Stainless steel



Door sealing gasket



RS-485 or RS-232C interface



Leveling caster



Safety devices



Digital PID controller



Automatic inner pressure relief valve

Basket detail



Catalog No.	Type	Dimension(ØxH)	Q-ty	Weight	Material	Applicable Model
AC60WB	WIRE BASKET	Ø318x265	2EA	1 Kg	Stainless steel	SH-AC-60M
AC80WB	WIRE BASKET	Ø368 x 270		1.3 Kg		SH-AC-80M
AC100WB	WIRE BASKET	Ø418 x 270		1.5 Kg		SH-AC-100M
AC128WB	WIRE BASKET	Ø468 x 270		3 Kg		SH-AC-120M

Vertical Autoclave



Model	SH-AC-60M	SH-AC-80M	SH-AC-100M
Temp Range	Max 130°C (266°F)		
Using Press	0.1177 to 0.1274 MPa (1.2 to 1.3 kg/cm ²)		
Temp Controller	Microprocessor Digital PID Controller		
Sterling Time	00.00 to 99HR 59MIN (MIN SEC) selectable		
Pressure Gauge	Mechanical type 0 to 0.3 MPa		
Sensor	PT-100		
Capa	60 L	80 L	100 L
Dimension Internal	350Φx630Hmm	400Φx650Hmm	450Φx650Hmm
	13.78x24.80"	15.75x25.59"	17.72x25.59"
Dimension External (WxDxH)	550x680x1070mm	600x730x1150mm	650x780x1150mm
	21.65x26.77x42.12"	23.62x28.74x45.27"	25.59x30.71x45.27"
Net weight	74 Kg	100 Kg	120 Kg
Material Internal	Stainless Steel		
Material External	Steel Plate with Powder Heating Coated		
Heater	3 KW		5 KW
Electrical Requirements 120V ,50/60Hz, 1Φ	25.0 A		41.7 A
Cat. No.	AC60M120	AC80M120	AC100M120
Electrical Requirements 230V ,50/60Hz, 1Φ	13.0 A		22.7 A
Cat. No.	AC60M230	AC80M230	AC100M230

• Accessory

-Wire basket x 2EA



• Option

-RS-485 interface
-RS-232C interface

• Safety Device

-Automatic reset function incoming power cut
-Buzzer on when set time arrived
-Electric leakage circuit breaker
-Over temperature protection device
-Safety relief valve

Vertical Autoclave



Model	SH-AC-128M
Temp Range	Max 130°C (266°F)
Using Press	0.1177 to 0.1274 MPa (1.2 to 1.3 kg/cm ²)
Time Controller	Microprocessor Digital PID Controller
Sterling Time	00.00 to 99HR 59MIN (MIN SEC) selectable
Pressure Gauge	Mechanical type 0 to 0.3 MPa
Sensor	PT-100
Capa	128 L
Dimension Internal (WxDxH)	500Φx650Hmm 19.69x25.59"
Dimension External (WxDxH)	700x830x1365mm 27.56x32.68x53.74"
Net weight	140 Kg
Material Internal	Stainless Steel
Material External	Steel Plate with Powder Heating Coated
Heater	5 KW
Electrical Requirements 120V ,50/60Hz, 1Φ	41.7 A
Cat. No.	AC128M120
Electrical Requirements 230V ,50/60Hz, 1Φ	22.7 A
Cat. No.	AC128M230

• Accessory

-Wire basket x 2EA

• Option

-RS-485 interface
-RS-232C interface

• Safety Device

-Automatic reset function incoming power cut
-Buzzer on when set time arrived
-Electric leakage circuit breaker
-Over temperature protection device
-Safety relief valve