

# VERTICAL AUTOCLAVE



# VERTICAL AUTOCLAVE

Laboratory Vertical Autoclave is designed to accommodate a wide range of applications. The user can choose to add the features needed according to intended use. Features are designed specifically for lab based sterilizations used in pharmaceuticals, microbiology labs, research laboratories, food and chemical industries. Very reliable and convenient method of sterilization.

Used in Food industry, Chemical industry, Research, Laboratory, Pharmaceutical.

Also known as Vertical Pressure Sterilizer, Vertical Pressure Autoclave, Vertical Sterilizer, Laboratory Vertical Autoclave,.

## AUT11 VERTICAL AUTOCLAVE

Microcomputer control system

Unique anti scald design chamber for corrosion resistance

Stainless steel chamber

Five sterilization modes

User friendly control panel

Multi layered pressure protection

Fully automatic internal discharge control embedded with a steam trapping bottle

Automatic checking of locking condition of cover

Automatic sterilization according to preset time

Safety device: Self-induction pressure interlocking device, over temperature protection system, dry scorch protection system, overpressure protection, safety valve, over current and short circuit protection, cover inspection system, leakage protection device, anti-scald safety protection and automatic troubleshooting system



## SPECIFICATIONS

Model	AUT11-054ADF	AUT11-054AD	AUT11-054A
Capacity	54 L		
Function	Fully automatic, Drying function	Fully automatic	Fully automatic, No flow chart
Temperature Range	5°C-138°C		
Sterilization Temperature	105-135°C		
Warming Temperature	45-60°C		
Warming Time	1-9999 min		
Melting Temperature	60-100		
Melting Time	1-300 min		
Humidity Range	10%-85% RH		
Working Pressure	0-0.6 MPa		
Chamber Dimension	320x730 mm		
Overall Dimension (LxWxH)	460x542x1070 mm		
Weight	80/120 kg		
Power	2900 W		
Power Supply	220 V, 60Hz		

Model	AUT11-080ADF	AUT11-080AD	AUT11-080A
Capacity	80 L		
Function	Fully automatic, Drying function	Fully automatic	Fully automatic, No flow chart

Temperature Range	5°C-138°C
Sterilization Temperature	105-135°C
Warming Temperature	45-60°C
Warming Time	1-9999 min
Melting Temperature	60-100
Melting Time	1-300 min
Humidity Range	10%-85% RH
Working Pressure	0-0.6 MPa
Chamber Dimension	400x700 mm
Overall Dimension (LxWxH)	620x680x1040 mm
Weight	140/180 kg
Power	4600 W
Power Supply	220 V, 60Hz

Model	AUT11-100ADF	AUT11-100AD	AUT11-100A
Capacity	100 L		
Function	Fully automatic, Drying function	Fully automatic	Fully automatic, No flow chart
Temperature Range	5°C-138°C		
Sterilization Temperature	105-135°C		
Warming Temperature	45-60°C		
Warming Time	1-9999 min		
Melting Temperature	60-100		
Melting Time	1-300 min		
Humidity Range	10%-85% RH		
Working Pressure	0-0.6 MPa		
Chamber Dimension	400x800 mm		
Overall Dimension (LxWxH)	620x680x1140 mm		
Weight	145/185 kg		
Power	4600 W		
Power Supply	220 V, 60Hz		

For Models AUT11-054ADF, AUT11-054AD, AUT11-054A

For Models AUT11-080ADF

For Models AUT11-080AD

For Models AUT11-080A

For Models AUT11-100ADF, AUT11-100AD

For Models AUT11-100A

## ACCESSORIES

Accessory Code	Name
1602705005	Stainless steel baskets
1602705006	Drainage hose

1602705007	Exhaust bottle
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**OPTIONAL ACCESSORIES**

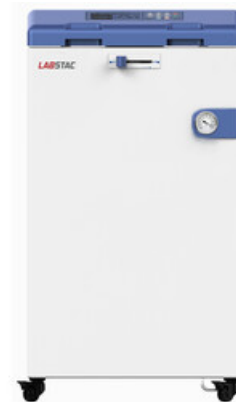
Accessory Code	Name
1602705008	Printer
1602705009	Printing set
1602705010	Load thermometer
1602705011	Cooling fan
1602705012	Temperature controller
1602705013	Temperature sensor
1602705014	Pressure Sensor
1602705015	Heater
1602705016	Sealing ring

Accessory Code	Name
1602705017	Pressure gauge
1602705018	Stainless steel pail
1602705019	Relay
1602705020	Main board
1602705021	Display board
1602705022	Jiggle switch
1602705023	Handle
1602705024	Pressure switch
1602705025	Solenoid Valve



# AUT12 VERTICAL AUTOCLAVE

- Microcomputer control system
- Stainless steel chamber
- Six sterilization modes
- Resin coated insulation of Chamber cover and bench to avoid hand burns
- User friendly control panel
- Waste sterilization mode and drying function
- Rounded corners avoid collisions and injuries
- Automatic sterilization according to preset time
- Temperature and pressure calibration interface
- Convenience of frequent water feeding
- Automatic monitoring of the discharge conditions of cold air
- Automatic opening of the vent valve to discharge steam on completion of sterilization procedure
- Fully automatic internal discharge control embedded with a steam trapping bottle
- Safety function: "Eight-column evenly distributed" interlocking device, electric double inner locks, dry scorch protection, overpressure protection, safety valve, over temperature protection, overcurrent and short circuit protection, leakage protection, cooling lock, anti-scald chamber cover and bench, automatic troubleshooting



## SPECIFICATIONS

Model	AUT12-060ADC	AUT12-060AC	AUT12-060A
Capacity	60 L		
Function	Fully automatic, Automatic water feeding, Fast cooling fan, Drying function	Fully automatic, Automatic water feeding, Fast cooling fan	Fully automatic
Sterilization Temperature	105-138°C		
Sterilization Time	1-300 min		
Warming Temperature	45-60°C		
Warming Time	1-9999 min		
Melting Temperature	60-100		
Melting Time	1-300 min		
Steam Exhausting Temperature	73-104°C		
Humidity Range	10%-85% RH		
Working Pressure	0-0.6 MPa		
Maximum Working Pressure	0.27 MPa		
Timer Range	0 minute-6 days		
Chamber Dimension	400x505 mm		
Overall Dimension (LxWxH)	660x644x980 mm		
Weight	101/140 kg		
Power	2900 W		
Power Supply	220 V, 60Hz		

Model	AUT12-085ADC	AUT12-085AC	AUT12-085A
Capacity	85 L		
Function	Fully automatic, Automatic water feeding, Fast cooling fan, Drying function	Fully automatic, Automatic water feeding, Fast cooling fan	Fully automatic
Sterilization Temperature	105-138°C		

Sterilization Time	1-300 min
Warming Temperature	45-60°C
Warming Time	1-9999 min
Melting Temperature	60-100
Melting Time	1-300 min
Steam Exhausting Temperature	73-104°C
Humidity Range	10%-85% RH
Working Pressure	0-0.6 MPa
Maximum Working Pressure	0.27 MPa
Timer Range	0 minute-6 days
Chamber Dimension	400x700 mm
Overall Dimension (LxWxH)	660x644x980 mm
Weight	113/160 kg
Power	4600 W
Power Supply	220 V, 60Hz

Model	AUT12-110ADC	AUT12-110AC	AUT12-110A
Capacity	110 L		
Function	Fully automatic, Automatic water feeding, Fast cooling fan, Drying function	Fully automatic, Automatic water feeding, Fast cooling fan	Fully automatic
Sterilization Temperature	105-138°C		
Sterilization Time	1-300 min		
Warming Temperature	45-60°C		
Warming Time	1-9999 min		
Melting Temperature	60-100		
Melting Time	1-300 min		
Steam Exhausting Temperature	73-104°C		
Humidity Range	10%-85% RH		
Working Pressure	0-0.6 MPa		
Maximum Working Pressure	0.27 MPa		
Timer Range	0 minute-6 days		
Chamber Dimension	400x895 mm		
Overall Dimension (LxWxH)	660x644x1180 mm		
Weight	125/170 kg		
Power	4600 W		
Power Supply	220 V, 60Hz		

For Models AUT12-060ADC, AUT12-060AC, AUT12-060A

For Models AUT12-085ADC

For Models AUT12-085AC

For Models AUT12-085A

For Models AUT12-110ADC

For Models AUT12-110AC, AUT12-110A

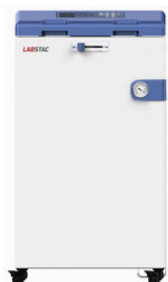
## ACCESSORIES

Accessory Code	Name
1602705005	Stainless steel baskets
1602705006	Drainage hose
1602705007	Exhaust bottle

## OPTIONAL ACCESSORIES

Accessory Code	Name
1602705008	Printer
1602705009	Printing set
1602705010	Load thermometer
1602705011	Cooling fan
1602705012	Temperature controller
1602705013	Temperature sensor
1602705014	Pressure Sensor
1602705015	Heater
1602705016	Sealing ring

Accessory Code	Name
1602705017	Pressure gauge
1602705018	Stainless steel pail
1602705019	Relay
1602705020	Main board
1602705021	Display board
1602705022	Jiggle switch
1602705023	Handle
1602705024	Pressure switch
1602705025	Solenoid Valve



AUT12-060ADC



AUT12-060AC



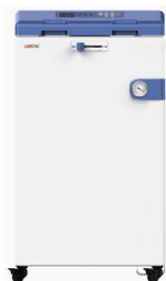
AUT12-060A



AUT12-085ADC



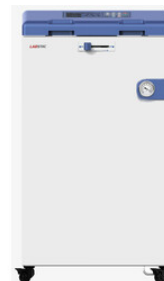
AUT12-085AC



AUT12-085A



AUT12-110ADC



AUT12-110AC



AUT12-110A

# AUT14 VERTICAL AUTOCLAVE

Sterilization process can be pre-set and completed automatically

Simple and easily understandable control panel to show the sterilization temperature, sterilization time and drying time at the same time, pressing separate keys to set the temperature and time makes the operation easier

System automatically monitors the discharging of the cold air to guarantee a pure steam sterilization environment and optimal sterilization effects

LED screen clearly shows the dynamic sterilization process

13 error detection procedures to monitor the normal operation of the instrument

Self-induction interlocking devices to avoid risk of misuse

Dual over-pressure protection system: upon detection of any abnormal pressure, system will relieve pressures or disconnect power supplies

Over temperature protection system: power supply will be disconnected for protection upon detection of over temperature

Dry soorch protection system: power supply will be disconnected for protection upon detection of overflow water level

Cover checking system: system can automatically check the locking of the cover, if the cover is not tightly locked, the autoclave can't be started

Electric leakage, over current and short circuit protection: system will disconnect the power supply to avoid an electricity shock or other accidents

Unique anti-scald cover and bench: avoid causing corrosions and scald



## SPECIFICATIONS

Model	AUT14-029T	AUT14-0029	AUT14-054T	AUT14-0054
Capacity	29 L		54 L	
Sterilization Temperature	105-135°C			
Sterilization Time	1-999 min			
Sterilization mode	1.Liquid 2.Liquid with warming 3.Solid 4.Instruments packed with cloth 5.Fabric 6.Rubber 7.Fast 8.Waste 9.Agar melting 10.Self defined	1.Solid 2.Agar with warming 3.Self-defined		
Melting temperature	60-100°C			
Melting time range	1-999min			
Warming Temperature	45-60°C			
Warming time range	1-9999min			
Exhaust temperature range	73-104°C(Liquid mode) 73-127°C(Solid mode)	-	73-104°C(Liquid mode) 73-127°C(Solid mode)	-
Exhaust mode	Automatic internal discharging with an embedded steam collector			
Timer range	0-6 days(Sterilization auto start up appointment)	-	0-6 days(Sterilization auto start up appointment)	-
Pressure gauge range	-0.1-0.5Mpa			
Pressure	Safety valve set pressure:2.9bar			
Controller	"Smart II" fast speed microcomputer controller			
Working environment	5-45°C,relatively humidity 10%-85%			
Chamber material	SUS304			
Chamber(Diax H)	325x381			
Rate power supply(W)	2600			
Power requirement	220V±10%,16A,50/60Hz			



Dimension(LxWxH,mm)	460x542x940		460x542x1070	
Baskets(DiaxH)	(300x200)x2		(300x200)x3	
Safety device	Soft-induction interlocking device, lid closing checking, over temperature protection system, dry scorch protection, over pressure protection, safety valve, over current and short circuit protection, electric leakage protection, scald protection, automatic failure-inspection system.			
Storage	up to 60 programs	up to 20 programs	up to 60 programs	up to 20 programs

Model	AUT14-080A	AUT14-0080	AUT14-100A	AUT14-0100
Capacity	80 L		100 L	
Sterilization Temperature	105-135°C			
Sterilization Time	1-999 min			
Sterilization mode	1.Liquid 2.Liquid with warming 3.Solid 4.Instruments packed with cloth 5.Fabric 6.Rubber 7.Fast 8.Waste 9.Agar melting 10.Self defined			
Melting temperature	60-100°C			
Melting time range	1-999min			
Warming Temperature	45-60°C			
Warming time range	1-9999min			
Exhaust temperature range	-	-	-	-
Exhaust mode	Automatic internal discharging with an embedded steam collector			
Timer range	0-6 days(Sterilization auto start up appointment)	-	0-6 days(Sterilization auto start up appointment)	-
Pressure gauge range	-0.1-0.5Mpa			
Pressure	Safety valve set pressure:2.9bar			
Controller	"Smart II" fast speed microcomputer controller			
Working environment	5-45°C,relatively humidity 10%-85%			
Chamber material	SUS304			
Chamber(Diax H)	400x709		400x809	
Rate power supply(W)	4600			
Power requirement	220V±10%,32A,50/60Hz			
Dimension(LxWxH,mm)	620x680x1100		620x680x1200	
Baskets(DiaxH)	(360x280)x2		(360x220)x3	
Safety device	Soft-induction interlocking device, lid closing checking, over temperature protection system, dry scorch protection, over pressure protection, safety valve, over current and short circuit protection, electric leakage protection, scald protection, automatic failure-inspection system.			
Storage	up to 60 programs	up to 20 programs	up to 60 programs	up to 20 programs

For Models AUT14-029T

For Models AUT14-0029, AUT14-054T, AUT14-0054

For Models AUT14-080A

For Models AUT14-0080

For Models AUT14-100A

For Models AUT14-0100



AUT14-029T



AUT14-0029



AUT14-054T



AUT14-0054



AUT14-080A



AUT14-0080



AUT14-100A



AUT14-0100

## AUT033 VERTICAL AUTOCLAVE

- Three times pre-vacuum
- High quality stainless steel material
- Microcomputer automatic control, arbitrary setting sterilization parameters
- Safety interlocking device
- LED touch screen display
- Standard test interface
- Self-expanding seal
- With drying function
- With stainless steel bucket or basket
- With automatic protection function: over temperature protection; over pressure self discharge protection ; low water level protection; anti dry burning.
- Automatic water
- External steam Generator
- Buzzer reminder after sterilization, automatic stop.
- Automatic discharge of cold air, automatic steam exhaust after sterilization
- Internal printer



### SPECIFICATIONS

Model	AUT033-035	AUT033-050	AUT033-075	AUT033-100
Capacity	35 L	50 L	75 L	100 L
Power	3.5 kW		4.5 kW	
Voltage	AC 220V. 50HZ			
Design pressure	0.25 Mpa			
Design temperature	139°C			
Rated working pressure	0.22 Mpa			
Rated working temperature	134°C			
Sterilization temperature setting range	116°C-134°C			

Sterilization time setting range	4 ~ 120 min			
Drying time setting range	0 ~ 240 min			
Chamber volume	Ø 350x400	Ø 400x505	Ø 400x655	Ø 450x650
Bucket dimension	Ø 330x320	Ø 380x430	Ø 380x560	Ø 420x540
Basket dimension	Ø 320x350	Ø 360x280x1	Ø 360x280x2	Ø 410x300x2
Outer dimension	698x498x940	630x500x1180	725x525x1170	760x560x1260
Packing size	790x610x1130	800x600x1230	840x610x1310	870x650x1380
Net weight	115 Kg	118 Kg	124 Kg	132 Kg
Gross Weight	130 Kg	138 Kg	150 Kg	159 Kg



AUT033-035



AUT033-050



AUT033-075



AUT033-100

## AUT034 VERTICAL AUTOCLAVE

- Hand wheel translation and quick opening structure
- High quality stainless steel material
- With drying function
- Microcomputer automatic control, arbitrary setting sterilization parameters
- Safety interlocking device
- Digital display and Touch buttons
- Standard test interface
- Self-expanding seal
- With automatic protection function: over temperature protection; over pressure self discharge protection; low water level protection; anti dry burning
- With stainless steel bucket or basket
- Buzzer reminder after sterilization, automatic stop
- Automatic discharge of cold air, automatic steam exhaust after sterilization, Internal steam cycle



## SPECIFICATIONS

Model	AUT034-035	AUT034-050	AUT034-075	AUT034-100
Capacity	35 L	50 L	75 L	100 L
Power	3.5 kW		4.5 kW	
Voltage	AC 220V. 50HZ			
Design pressure	0.25 Mpa			
Design temperature	139°C			
Rated working pressure	0.22 Mpa			
Rated working temperature	134°C			
Sterilization temperature setting range	116°C-134°C			
Sterilization time setting range	4 ~ 120 min			

Drying time setting range	0 ~ 240 min			
Chamber volume	Ø 350x400	Ø 350x525	Ø 400x625	Ø 450x650
Bucket dimension	Ø 330x320	Ø 330x460	Ø 380x560	Ø 420x540
Basket dimension	Ø 320x350	Ø 320x240x2	Ø 360x280x2	Ø 410x300x2
Outer dimension	698x498x940	630x500x1180	725x525x1170	788x588x1255
Packing size	790x610x1130	800x600x1230	840x610x1310	870x650x1380
Net weight	110 Kg	112 Kg	114 Kg	129 Kg
Gross Weight	125 kg	130 Kg	145 Kg	156 Kg



AUT034-035



AUT034-050



AUT034-075



AUT034-100

## AUT035 VERTICAL AUTOCLAVE

- Hand wheel translation and quick opening structure
- High quality stainless steel material
- Microcomputer automatic control, arbitrary setting sterilization parameters
- Yr Safety interlocking device
- Digital display and Touch buttons
- Standard test interface
- Self-expanding seal
- With drying function
- With automatic protection function: over temperature protection; over pressure protection; low water level protection; anti dry burning
- With stainless steel bucket or basket Buzzer reminder after sterilization, automatic stop
- Automatic discharge of cold air, automatic steam exhaust after sterilization



## SPECIFICATIONS

Model	AUT035-035	AUT035-050	AUT035-075	AUT035-100
Capacity	35 L	50 L	75 L	100 L
Power	3.5 kW		4.5 kW	
Voltage	AC 220V. 50HZ			
Design pressure	0.25 Mpa			
Design temperature	139°C			
Rated working pressure	0.22 Mpa			
Rated working temperature	134°C			
Sterilization temperature setting range	116°C-134°C			
Sterilization time setting range	4 ~ 120 min			
Drying time setting range	0 ~ 240 min			
Chamber volume	Ø 350x400	Ø 350x525	Ø 400x625	Ø 450x650

Bucket dimension	Ø 330x320	Ø 330x460	Ø 380x560	Ø 420x540
Basket dimension	Ø 320x350	Ø 320x240x2	Ø 360x280x2	Ø 410x300x2
Outer dimension	480x480x1000	480x480x1120	525x525x1190	550x550x1250
Packing size	580x630x1130	580x630x1230	630x680x1290	690x650x1410
Net weight	58 Kg	80 Kg	90 Kg	106 Kg
Gross Weight	79 Kg	106 Kg	120 Kg	133 Kg



AUT035-035



AUT035-050



AUT035-075



AUT035-100

## AUT036 VERTICAL AUTOCLAVE

- Hand wheel translation and quick opening structure
- High quality stainless steel material
- Microcomputer automatic control, arbitrary setting sterilization parameters
- Safety interlocking device
- Digital display and Touch buttons
- Standard test interface
- Self-expanding seal
- With automatic protection function: over temperature protection; over pressure self discharge protection; low water level protection; anti dry burning
- With stainless steel bucket or basket
- Buzzer reminder after sterilization, automatic stop
- Automatic discharge of cold air, automatic steam exhaust after sterilization



## SPECIFICATIONS

Model	AUT036-035	AUT036-050	AUT036-075	AUT036-100
Capacity	35 L	50 L	75 L	100 L
Power	3.5 kW		4.5 kW	
Voltage	AC 220V. 50HZ			
Design pressure	0.25 Mpa			
Design temperature	139°C			
Rated working pressure	0.22 Mpa			
Rated working temperature	134°C			
Sterilization temperature setting range	116°C-134°C			
Sterilization time setting range	4 ~ 120 min			
Chamber volume	Ø 350x400	Ø 350x525	Ø 400x625	Ø 450x650
Bucket dimension	Ø 330x320	Ø 330x480	Ø 380x540	Ø 430x550
Basket dimension	Ø 320x350	Ø 320x240x2	Ø 360x280x2	Ø 410x300x2
Outer dimension	480x480x1000	480x480x1120	525x525x1190	555x555x1250
Packing size	580x630x1130	580x630x1230	630x680x1290	690x650x1410

Net weight	58 Kg	80 Kg	90 Kg	106 Kg
Gross Weight	79 Kg	106 Kg	120 Kg	133 Kg



AUT036-035



AUT036-050



AUT036-075



AUT036-100

## AUT037 VERTICAL AUTOCLAVE

Bolt structure

High quality stainless steel material

Microcomputer automatic control, arbitrary set of sterilization parameters

Digital display and touch buttons

Standard test interface

The container with automatic protection function: over temperature protection; over pressure protection self discharge; low water level protection, anti dry burning

With stainless steel bucket or basket

Buzzer reminder after sterilization, automatic stop.

Automatic cooling air, sterilization end automatic exhaust steam



## SPECIFICATIONS

Model	AUT037-035	AUT037-050	AUT037-075
Capacity	35 L	50 L	75 L
Power	2.5 kW	3.5 kW	4.5 kW
Voltage	AC 220V. 50HZ		
Design pressure	0.25 Mpa		
Design temperature	139°C		
Rated working pressure	0.22 Mpa		
Rated working temperature	134°C		
Sterilization temperature setting range	116°C-134°C		
Sterilization time setting range	4 ~ 120 min		
Chamber volume	Ø 300x500	Ø 350x525	Ø 400x625
Bucket dimension	Ø 280x400	Ø 330x460	Ø 380x560
Outer dimension	400x400x860	480x480x960	525x525x1060
Packing size	550x500x1030	580x630x1100	630x680x1190
Net weight	41 Kg	53 Kg	61 Kg
Gross Weight	58 Kg	75 Kg	82 kg
Basket dimension	-	Ø 320x240x2	Ø 360x280x2

Model	AUT037-100	AUT037-120	AUT037-150
Capacity	100 L	120 L	150 L

Power	4.5 kW		6.0 kW
Voltage	AC 220V. 50HZ		
Design pressure	0.25 Mpa		
Design temperature	139°C		
Rated working pressure	0.22 Mpa		
Rated working temperature	134°C		
Sterilization temperature setting range	116°C-134°C		
Sterilization time setting range	4 ~ 120 min		
Chamber volume	Ø 450x650	Ø 450x760	Ø 500x780
Bucket dimension	Ø 420x540	Ø 420x660	Ø 470x720
Outer dimension	555x555x1080	555x599x1200	605x649x1210
Packing size	690x650x1230	690x650x1330	750x700x1370
Net weight	78 Kg	82 Kg	90 Kg
Gross Weight	103 Kg	108 Kg	116 Kg
Basket dimension	Ø 410x300x2	Ø 410x350x2	Ø 460x350x2



AUT037-035



AUT037-050



AUT037-075



AUT037-100



AUT037-120



AUT037-150

# LABSTAC

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