

Easy-to-Read & Easy-to-Operate

New HICLAVE

equipped with Color Touch Panel

HICLAVE

HV- II series

HV-25 II / 50 II / 85 II / 110 II

HV-25 II LB / 50 II LB / 85 II LB / 110 II LB

Controlled medical devices (Class II)
LB: for laboratories



Maintenance information is also displayed.

HICLAVE HV- II series autoclaves



HV-50 II

HV-110 II

HV-85 II

HV-25 II



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ISO 13485 CERTIFIED

Products shown in this brochure
are manufactured by the company,
ISO 13485 certified.

STERILIZING
SIMPLY AND WELL

HIRAYAMA

HICLAVE HV-II series

Controlled medical devices (Class II)

HV-25 II / 50 II / 85 II / 110 II

For laboratories

HV-25 II LB / 50 II LB / 85 II LB / 110 II LB



The user-friendliness has been enhanced by employing a color touch panel.

Various information is displayed in detail by using characters.

Reliability and safety are provided to users.

We offer the new model autoclaves:
HICLAVE HV-II series autoclaves

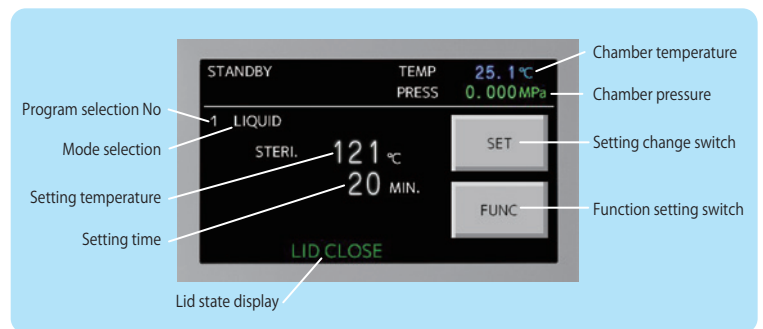


Modest and simple design



Easy-to-Operate with Color Touch panel

A color touch panel allows an operator to select an operation screen at a glance.



A mode selection is easy.

A mode selection is easy. Touch the screen to select a desired mode from five modes shown on the screen, then press the START button.



A color screen is easy to read when setting temperature, time, warming or exhaust.

The setting change of temperature, time, warming or exhaust is easily carried out by means of touch operation while checking a color screen.

The set contents are registered up to 8 patterns. It is convenient when sharing and utilizing them with other people.



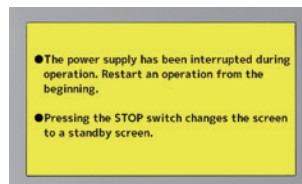
Sterilization temperature setting



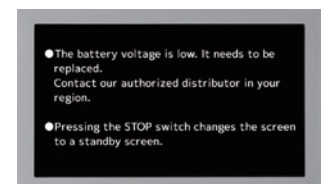
Program registration/selection

Maintenance information is also displayed. Reliable & Safe!

Various information including settings, maintenance, safety or alarms is displayed on a color screen. Detailed contents are provided by the character information.



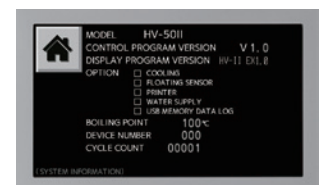
Maintenance information
Notification of periodic self inspection, power failure, cycle count, etc. are displayed.



Alarms



Alarm history
Date of generation, alarm contents, stage ID number are displayed.



System information
Program version No., cycle count, next self inspection date are displayed.

Unique safety functions



Electro-mechanical lid lock system

A lid is locked not by a handle but by a slide lever that can be lightly operated. So, opening / closing of a lid is easy and reliable. In addition, the pressure seal method consisting of an internal pressure type gasket and several lock pins which are inserted from the lid circumference is employed for safety.



Dual interlock mechanism

The dual interlock mechanism which can lock a lid by detecting the chamber pressure and temperature during sterilization is installed. A lock state is maintained even when a cycle is interrupted by power failure or manual stop operation.

※This interlock mechanism keeps operating even after a cycle is interrupted or manually stopped.



Lid lock release temperature

The lid lock release temperature can be set up for each mode or program, so safety at the time of unloading is secured.

LIQUID, AGAR, DISSOL modes : 60 - 95°C
SOLID mode : 60 - 97°C

Functions that support secure sterilization

Dual sensing system for residual air

The residual air which may cause sterilization failure is dually detected to always maintain the sterilization conditions that are appropriate for loads.

※Air removal is performed not only by gravity displacement but also by over-pressure exhaust, and the residual air is detected dually.

Exhaust level is selectable

It is possible to perform the fine exhaust by presetting an exhaust amount. The exhaust level is adjustable during operation.



Forced cooling device (option)

At the end of sterilization, the chamber temperature is lowered using a forced cooling device (air cooling). It is possible to shorten time to unloading after sterilization.

Functions that improve usability



Air removal time setting

The air removal time that is effective for sterilization of such objects as Durham tubes can be set.

HV-25 II /25 II LB, HV-50 II /50 II LB:

Arbitrary time between 3-9 minutes

HV-85 II /85 II LB, HV-110 II /110 II LB:

Arbitrary time between 6-18 minutes

Memory function

A program which is set for each application can be registered up to 8 patterns.

Programmable auto-start function

The programmable auto-start function that starts an operation at the set time is provided.

Boiling point setting

When it is not possible to use the equipment in standard settings in a place which is more than 800 m from the sea level, you can change a boiling point to use it.

Maximum Effective Capacity : 110 ℓ

Please select the most suitable model that meets your purposes from the following medical devices and laboratory equipment.



HV-25 II /25 II LB



HV-50 II /50 II LB



HV-85 II /85 II LB



HV-110 II /110 II LB






Specifications & Standards

MD: Medical devices, LB:for laboratories

Product name		HICLAVE HV-II															
		HV-25 II		HV-25 II LB		HV-50 II		HV-50 II LB		HV-85 II		HV-85 II LB		HV-110 II		HV-110 II LB	
Classification of MD/LB		MD		LB		MD		LB		MD		LB		MD		LB	
Chamber dimension		φ 240 × D550 mm				φ 300 × D710 mm				φ 420 × D615 mm				φ 420 × D795 mm			
Chamber volume		28 ℓ				54.2 ℓ				98.8 ℓ				123.7 ℓ			
Effective capacity		25 ℓ				50 ℓ				85 ℓ				110 ℓ			
Temp. settings	Sterilization temperature	105 ~ 126°C variable				105 ~ 135°C variable											
	Dissolution temperature									60 ~ 100°C variable							
	Warming temperature									45 ~ 60°C variable							
	Lid lock temperature									LIQUID, AGAR, DISSOL modes: 60 - 95°C variable, SOLID, WASTE modes: 60 - 97°C variable ※							
Time settings	Sterilization timer	1 - 250 min, The remaining time is displayed.															
	Dissolution timer	1 - 60 min, The remaining time is displayed.															
	Auto-start timer	1 min later - 1 week later, A start date and time is set.															
	Air removal time	3 - 9 min variable								6 - 18 min variable							
Mode selection		LIQUID, SOLID, WASTE, AGAR, DISSOL/ 8 programs															
Exhaust settings		3 steps (No exhaust, Fine exhaust, Small amount of exhaust)															
Maximum working pressure		0.186MPa								0.255MPa							
Thermometer		Digital display 5.0 ~ 128.9°C								Digital display 5.0 ~ 137.9°C							
Pressure gauge		Digital display 0-0.3 MPa/Analog display 0-0.4 MPa															
Safety devices and alarms		Safety pressure valve, Earth leakage breaker with O.C.protection, Low water cut off device, Alarms: Low water heating, Temperature sensor wire disconnection, Over-temperature, Over-cool, Over-pressure, Abnormality in lid, Abnormality in the lock of lid opening/closing lever															
Outside dimension (in mm)		W485 × D470 × H949				W547 × D532 × H1046				W667 × D652 × H1026				W667 × D652 × H1206			
Weight (approx.)		44 kg				60 kg				83 kg				89 kg			
Pressure vessel category		Simple pressure vessel								Small sized pressure vessel							
Chamber material		Stainless steel (SUS 304)															
Power source		AC110/120/220/230/240V, 50/60Hz (specify voltage when ordering)								AC220/230/240V, 50/60Hz (specify voltage when ordering)							
Power consumption		1.5kW				2.0kW				3.0kW				4.0kW			
Power cord connection		Plug with ground terminal pin								Ring terminal (A plug is not supplied.)							
Supplied accessories		Wire basket, Exhaust bottle, Bottom plate, Drainage hose (50 cm), Exhaust hose (50 cm), Drainage collecting bottle, Cable tie, Caster stopper, Operation manual, User inspection procedure, Small sized pressure vessel specifications (excluding HV-25 II and HV-25 II LB)															
Medical device certification number 229AABZX00056000		○	—	○	—	○	—	○	—	○	—	○	—	○	—	○	—
Controlled medical devices (Class II)		○	—	○	—	○	—	○	—	○	—	○	—	○	—	○	—
Controlled medical devices requiring special maintenance		○	—	○	—	○	—	○	—	○	—	○	—	○	—	○	—
EMC compliance JIS C 1806-1:2010		○	—	○	—	○	—	○	—	○	—	○	—	○	—	○	—

※ The upper limit value changes according to the set boiling point.

Optional devices for upgrading a system

					• Software available
Recorder / Printer for data collection	Floating sensor A sterilization timer is activated after the material to be sterilized reaches the set temperature.	Forced cooling device (air cooling) Time to unloading after sterilization is shortened.	Automatic water supply system Water is automatically supplied without troublesome water supply work.	USB interface port	

Optional accessories

						• Sterilization tape, label, bag, etc. Ask us for details
Round wire basket Stainless steel	Sterilization bucket Stainless steel	Round wire basket with bottom plate Stainless steel	Special sterilization bucket for medical wastes treatment	Deodorizer for autoclaves	Detergent for autoclaves	

Specifications and appearance are subject to change without notice due to continuous product improvement.



ISO 13485 CERTIFIED
Manufactured under ISO 13485

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