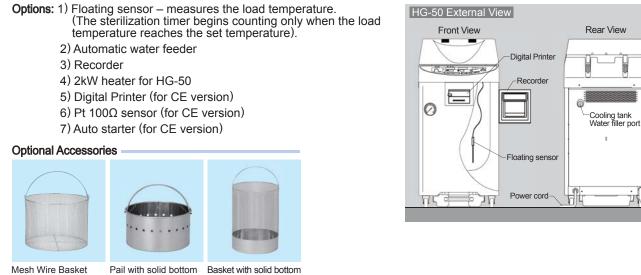
Main Specifications of HGseries Autoclaves

	lain Specifications of F	IGseries Autoclaves		
Model		HG-50	HG-80	
Outside dimensions		455W x 691D x 890H mm	455W x 691D x 1030H mm	
Chamber size (Volume)		364Φ x 482H mm (Effective volume 50.2 liter)	364Φ x 730H mm (Effective volume 76 liter)	
Net weight (Approx.)		62 kg	73 kg	
Power source		AC110V / 120V / 220V / 230V / 240V 50 / 60 Hz (Specify the voltage when ordering)	AC220V / 230V / 240V 50 / 60 Hz (Specify the voltage when ordering)	
Power consumption		3kW (2kW for AC110V / 120V)	3.8kW	
Category of pressure vessel		Small sized pressure vessel		
Chamber material		Stainless steel (SUS 304)		
	Sterilization temperature	105 - 135°C Variable		
ange	Sterilization timer	1 - 300 minutes Remaining time is displayed		
	Dissolution temperature	60 - 100°C Variable		
	Dissolution timer	1 - 60 minutes Display the remaining time		
	Warming temperature	45 - 60°C Variable		
R	Exhaust level	Level 0 - 3, 4-steps Variable		
Setting Range	Fan cooling	ON or OFF		
	Reservation timer	1 - 99 hour, Setting the operation start-up time		
	Air removal time	3 - 9 minutes variable (Default 4 min.)	8 - 16 minutes variable (Default 8 min.)	
	Lid lock temperature	Liquid, Agar, Dissolution : 60 - 95°C (Default 80°C) Solid : 60 - 97°C (Default 97°C)	Liquid, Agar ,Dissolution : 60 - 95°C (Default 65°C Solid : 60 - 97°C (Default 97°C)	
Selectable mode		LIQUID, AGAR, SOLID, DISSOLUTION mode, (Three kinds of operating conditions can be set for each mode)		
Exhaust treatment		Vapor condensation by water cooling		
Drain bottle (when full)		Built-in 2 liter bottle (Indication lamp blinks when filled with water)		
Safety valve operating pressure		0.26 MPa		
Thermometer		5.0 - 137.9°C (Resolution: 0.1°C)		
Pressure gauge		Digital display: 0 - 0.3MPa, Analog display: 0 - 0.4MPa		
Safety devices		Pressure safety valve, Earth leakage and over current breaker, Low water cut off device, Error display (Boil-dry, Disconnection of temperature sensor wire, Over-temperature, Over-cooling, Over-pressure, Abnormality in the lid, Abnormality in the exhaust valve, Abnormality in the heater)		
Supplied accessories		Wire basket (HG-50 : 2, HG-80 : 3), Drain bottle, Bottom plate, Caster stopper(2), Support bracket and bolt (2)		
Power cord connection		Ring terminal (Plug is not attached)		
Medical device classification		Controlled medical device (Class II), Specifically designated maintenance medical device, (by Japan PAL)		
×WI	nen this autoclave is used in a place wl	nich is more than 800 m higher than sea level (low-pressure condit	ion in a mountainous area), change of specifications is	

When this autoclave is used in a place which is more than 800 m higher than sea level (low-pressure condition in a mountainous area), change of specifications is necessary. Please be sure to inform of it when inquiring.

Options



 Pair with Solid bottoff
 Basket with Solid bottoff

 HG-50
 For HG-50

 330 ϕ x185H mm
 330 ϕ x450H mm

 330 ϕ x185H(perforated)
 For HG-80

 HG-80
 330 ϕ x690H mm

 330 ϕ x270H mm
 330 ϕ x270H mm

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

Distributor :

Manufacturer : HIRAYAAMA Manufacturing Corp. 2-6-5, TOYONO-CHO, KASUKABE-SHI, SAITAMA 344-0014, JAPAN TEL:+81-48-735-1242 FAX:+81-48-733-2384 http://www.hirayama-hmc.co.jp/

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Hose for Auto wate feeder

JAC

CE Option available



For safer and more reliable medical and laboratory equipment HIRAYAMA

Just push the button, the lid opens, shuts and locks automatically!!

A new-generation autoclave that features the advanced function and the enhanced user-friendliness as well as the automated lid operation system is born.



Capable of opening or closing the lid with one switch

HG series autoclave is equipped with a newly developed unique opening and closing system of the lid. The opening and closing of the lid or the lock of the lid can be carried out easily with only one finger. Since an operator does not need to come near to the opening of the chamber when operating the lid, safety becomes still higher.



Electromechanical

The electromechanical lid operation system can open, shut and lock the lid automatically. The lid lock plates with lock holes are attached to the lid, while, the lid lock plate guides with lock holes are welded to the body of the chamber and the high rigid locking pins are mounted on the outer ring which rotates around the chamber. When closing the lid, the lid lock plates are inserted into the lid lock plate guides. Then, the locking pins are inserted into the lock holes of these parts when the outer ring which is driven by a motor rotates, the lid is securely locked thereby. Since the lid is locked firmly the higher safety is assured.

Highly secure locking system

When an operation stops in the course of the cycle as well as during sterilization, the safety interlock system which is capable of locking the lid by detecting both pressure and temperature of the chamber operates. It also enhances safety of the equipment.

User-settable lid lock release temperature

Since a user can set the lid lock release temperature for every mode or program within the range of 60°C-97°C*, it ensures safety and improves user-friendliness further.

*Setting range of the lid lock release temperature

Mode	HG-50	HG-80
LIQUID,AGAR,	60-95°C	60-95°C
DISSOLUTION	(Default 80°C)	(Default 65°C)
SOLID	60-97°C (Default 97°C)	60-97°C (Default 97°C)

Reservation time

The reservation timer which can start operation Dissolution cycle which dissolves coagulated agar

at the desired time in the range of 1 - 99 hours is medium is a standard feature. provided

Double sensing system for air removal

Air in the chamber which may cause insufficient sterilization is detected by the double sensing system and the appropriate sterilization condition in accordance with the load condition is maintained.

Air removal time can be freely set

Default setting : 4 min.(HG-50) 8 min. (HG-80) Setting range : 3~ 9 min. (HG-50) 8~16 min. (HG-80) This function is useful when sterilizing a Durham decreased. tube, etc

High water alarm for the drain bottle

The forced air cooling system that lowers the pressure of the chamber by air cooling is a standard feature. Since it is possible to reduce time until the load is taken out after sterilized, the total working hour is

Automatic exhaust system that can select the exhaust level

We are apt to forget discharge of water which is collected to the drain bottle (antibacterial treatment bottle). HG series autoclaves have a function which detects the high water of the drain bottle automatically and warns with an alarm lamp and a sound. It is easy to remove the drain bottle, too

Fine exhaust is automatically performed by setting the exhaust level (4-step) in advance. In addition, fine exhaust adjustment is possible also during exhaust

The vapor condensing system improves working environmen

The vapor during exhaust is condensed by the water cooling unit. Working environment is improved by controlling leakage of unpleasant vapor to the room.

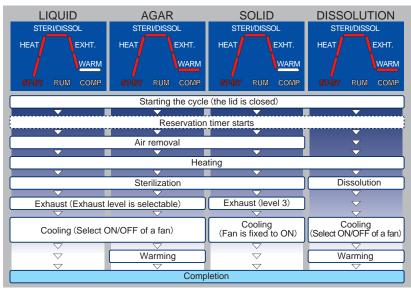
Large operation panel

Drain bottle

The new large operation panel is employed. The ongoing process is easily understood just by looking at the stage display and the operation cycle which is selected according to the load is indicated with the lamps. As the size of switches and display window became larger, the operation panel is very easy to use.



Select the sterilization cycle from LIQUID, AGAR, SOLID or DISSOLUTION cycle according to the purpose. The stage display by which the state of progress can be easily understood just by looking is employed.



Dissolution cycle is a standard feature

Body is compact and easy to use

Appearance has functional beauty and is compact. HG-50 is a space-saving model that reduced the size of width and height compared with conventional HV type autoclaves. The height of the lid to take out the load is designed to about 751mm so that the handling of the load becomes easier.

e memory function which can save the setting for each cycle

The memory function which can save 3 kinds of settings for each cycle is provided

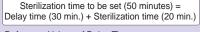
The loading capacity was increased by enlarging the chamber diame

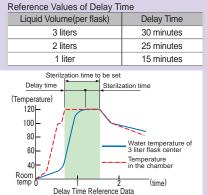
As the diameter of the chamber was enlarged, 2 sets of 50-hole tube racks for 18mm test tubes can be placed in the wire basket and the 2 wire baskets can be stacked (HG-80:stackable up to 3 steps). Moreover, four 1L flasks can be put .

The forced air cooling system can reduce the cooling time

Point for perfect sterilization

•When sterilizing liquid, set a longer sterilization time, taking delay time into account and referring to the table below. In case that there is 3 liters of water in the flask, it takes nearly 30 minutes (delay time) for the water temperature of the flask center to reach to the set sterilization temperature after the temperature in the chamber has reached the sterilization temperature. Therefore, set the sterilization time 30 minutes longer for perfect sterilization of liquid.





Selecting the sterilization cycle