

HV-25, HV-50, HV-85, and HV-110

Portable Top-Loading Autoclaves with Advanced Safety and User-friendly Features

The 25-liter (HV-25), 50-liter (HV-50), 85-liter (HV-85), and 110 liter (HV-110) Autoclaves are self-contained, portable floor models mounted on caster wheels. They occupy minimum floor space and can fit conveniently into many locations in the laboratory. Their many uses include the sterilization of agar, media, wastes, glassware, and fermentors, especially for the larger models.



Space-Saving Design
with lid opening upward.

Programmable Auto-Start
for initiating a cycle up to
1 week later.

One-Touch Lever
to easily open and close
chamber lid.

Programmable Rate
for steam exhaust.

Door-Closure Sensor
provides a prompt and the
cycle will not start unless
the door is closed properly.

Automatic Air Purging
by a microprocessor
prevents over-pressuriza-
tion during a cycle.

Agar Sterilization Mode
for sterilizing agar and then
automatically maintaining
it at liquid temperature.

Dual-Sensing Lid Interlock
prevents lid opening when
chamber is pressurized or
when temp. is $>97^{\circ}\text{C}$

Special Option:
floating (load) sensor to
monitor load temperature.
Sterilization timer is
activated only when the
load temperature reaches
set temperature.

In-Process Display
shows status and
progress of sterilization
cycle in real time.

Other Options: Digital
printer, data logger, cooling
fan and auto water supplier

Agar Melting Mode
for rapidly melting agar
and maintaining it at liquid
temperature, or for a hot
and faster start-up.

Memory Backup System
retains user-programmed
parameters even in case
of power failure.

CONTROL PANEL



MODELS: HV-25, HV-50, HV-85, and HV-110

SPECIFICATIONS	HV-25	HV-50	HV-85	HV-110
TEMPERATURE				
Operating Range	105°C to 126°C	105°C to 135°C		
Display Range	10°C to 128°C	10°C to 137°C		
Warming Range	45°C to 60°C			
Agar Dissolution	Heating at 60°C to 100°C for up to 1 hour (temp. and time programmable), followed by 45°C to 60°C (temp. programmable) for up to 20 hours.			
GAUGE PRESSURE				
Operating Range	3 to 22 PSI gauge (0.02 to 0.148 MPa)		3 to 30 PSI (0.02 to 0.206 MPa)	
Maximum Allowable	27 PSI (0.186MPa)		38 PSI (0.26MPa)	
TIMER				
Sterilization	1 to 250 minutes			
Delayed Auto-start	Program autoclave to start 1 minute to 7 days later			
DIMENSIONS				
Overall: (W x D x H)	(19 x 18 x37) in (48 x 46 x 95) cm	(20 x 21 x 41) in (51 x 53 x 104) cm	(26 x 25.6 x39) in (66 x 65 x 100) cm	(26 x 26 x 46) in (66 x 65 x118) cm
Chamber: (Diameter x Height)	25 liters (9.4 x 21.6) in (24 x 55) cm	50 liters (11.8 x 28) in (30 x 71) cm	85 liters (16.5 x 24) in (42 cm x 61.5) cm	110 liters (16.5 x 31) in (42 x 79.5) cm
PROGRAMS				
1. For agar	Heating → Sterilization → Exhaust (from no exhaust to slow, programmable) → Warming → Completion			
2. For liquids	Heating → Sterilization → Exhaust (from no exhaust to slow, programmable) → Completion			
3. For solids	Heating → Sterilization → Exhaust (from no exhaust to slow, programmable) → Completion			
4. For melting agar or for a faster start-up	Rapid melting at 60°C to 100°C (temperature and time programmable) → Maintain at 45°C to 60°C (temperature programmable) → Completion			
SAFETY DEVICES	Dual-sensing safety lid interlock. Over-pressure/temperature/lower-water power cutoff, mechanical pressure relief valve, microprocessor-controlled pressure relief valve, lid-closure detector, over-current detector and circuit breaker			
POWER				
Source	120V, 50/60 Hz (220V available)		208V/220V/240V	
Consumption	1500 watts (1500VA)	2000 watts (2000VA)	3000 watts (3000VA)	4000 watts (4000VA)
WARRANTY	Autoclaves are protected by a 12 month limited warranty.			
OPTIONS	1. load sensor 2. digital printer 3. data logger 4. cooling fan 5. automatic water supply unit			

Accessories: Baskets, Pails, Drums, and Round Tube Racks



Products shown in this brochure are manufactured by the company, ISO 9001 / 13485 / 14001 certified.



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