

HGD-113, AND HGD-133 AUTOCLAVES

The HGD-113 and HGD-133 of the HG series offer a drying cycle using heat and a vacuum. They are self-contained, and do not need any plumbing for installation. Both models are suitable for liquids and solids without or with drying by heat and a vacuum pump. For solid loads such as racked pipette tips, the vacuum pump is also used in a pre-vacuum stage during which air is evacuated from the chamber at the start of a cycle, thereby providing a most efficient and faster sterilization compared to other autoclaves without a pump. The models also incorporate a steam generator. Features include:

- **Automatic Lid Opening Button** replaces a foot pedal.
- **Automatic Lid Closing Button** closes lid conveniently and safely.
- **Safety Interlock** senses pressure and temperature and prevents lid from opening during a cycle, when the chamber is pressurized, and when the high temperature can cause boil over.
- **Programmable Auto-Start** for running a cycle from 1 to 99 hours later.
- **Large (15 liters)/ Efficient Steam Condenser** ensures no steam exhausts into the lab.
- **Built-in Steam Generator**
- **Built-in Cooling Fan** for faster post-sterilization cooling and shorter completion time.
- **Selectable Rate** of steam venting after sterilization.
- **Programmable Time** for air removal before sterilization.
- **Twelve Programs Cycles** can be stored.



SELF-CONTAINED, PORTABLE TOP-LOADING AUTOCLAVE WITH DRYING CYCLE

MODEL	HGD-113	HGD-133
Overall (W x D x H)	27.0" x 34.3" x 36.6" (686 x 870 x 930) mm	27.0" x 34.3" x 40.7" (686 x 870 x 1034) mm
Chamber Volume (Diameter x Height)	132.9L, 113L effective 19.7" x 22.7" (500 x 576) mm	153.3L, 133L effective 19.7" x 26.8" (500 x 680) mm
Program Cycles	1) Liquid cycle, 2) Agar (liquid with warming) cycle, 3) Solid cycle, and 4) cycle for agar dissolution and then keeping it warm	
Sub-Programs	For each program cycle, there are 3 sub-programs for each of which parameters can be programmed and stored	
Temperature Range	105°C to 135°C	
Sterilization Timer	1 to 300 minutes	
Drying Timer	1 to 99 minutes	
Agar Melting Range	60°C-104°C	
Delayed Auto-Start	Program autoclave to start 1 minute to 7 days later	
Air Exhaust Time	Programmable, 9 to 16 minutes after temperature has reached 97°C	
Steam Venting	Selectable from: No venting and three other venting rates	
Water Cooling	Select ON/OFF	
Steam Generator	Equipped	
Steam Generator Inside Cleaning	Equipped	
Auto Water Supply	Equipped	
Temperature for Release of Lid Interlock	Programmable, 60°C to 97°C for greater safety and flexibility	
Pre-heating	Equipped	
Safety Features	Circuit breaker with GFCI, low-water power cut-off, over-temp power cutoff, over-pressure power cut-off, safety valve, sensor for improper lid closing	
Power Requirments	3-phase, 400VAC (other 3-phase voltages available)	
Power Consumption	8.4kW @ 400VAC	8.7kW @ 400VAC
Net Weight	405 lb (184kg)	425 lb (192kg)