Cole-Parmer®

HG-250 GenoLyte®

Tissue and Cell Lyser for Biological Applications

Quick Start Guide

For 115V/230V (41010-94)

For Product Information

How To Operate HG-250 GenoLyte

- Set up the homogenizer in a well ventilated, unconfined space. The unit should be operated on a flat, hard, stable benchtop due to the vigorous motion and vibration generated during operation.
- Tilt the cabinet, and remove the two bolts on the bottom. They hold the floating baseplate to the cabinet for shipping.
- Remove the foam protector around the clamp assembly inside the unit before turning it on.

<u>Important</u>: Cooling chamber only accepts Cole-Parmer 2 ml vials and Standard 2 ml vials.

Lid

Control Panel

Chiller Connector

Step 1. Connect the power supply to the back of unit. Power On the HG-250 GenoLyte. Upon start-up, Cole-Parmer will appear briefly on the display screen followed by RATE and TIME.

Step 2. Connect the circulating-chiller, attach the quick connect hoses to the HG-250 connector (left and right side). The inlet port to the chiller is attached to the right side of the HG-250 GenoLyte (right chiller connection) and the left chiller connection is attached to the outlet port from the chiller.

<u>Chiller Setting Reference Table 1</u> (Guidelines for Run Protocol)

CHILLER SETTING	RUNTIME	RATE	REST	CYCLE	VIAL TEMPERATURE (during run)
-3°C (26.6°F)	40 seconds	3000 rpm	15 seconds	2	0° to 4°C
-1°C (30.2°F)	35 seconds	3000 rpm	15 seconds	2	3° to 8°C
1°C (33.8°F)	30 seconds	3000 rpm	15 seconds	3	4° to 8°C
3°C (37.4°F)	30 seconds	3000 rpm	15 seconds	3	6° to 10°C

Step 3. Lift the Lid by the Lid Handle. Add sample loaded vials to the Cooling chamber. Close the clamp arm by pushing it down until it clasps the locking tab.

Clamp Arm

Locking Tab
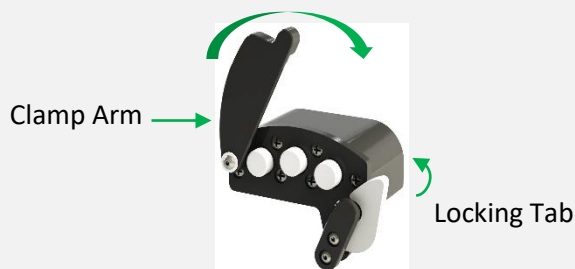
Step 4. Close the lid.

Changing the Run Parameters

NOTE: **Never run the HG-250 GenoLyte with the clamp arm unfastened and not properly secured. Damage and leakage will result.**

- **Time** - Can be set in 5-second increments. Maximum runtime is 5.00 min.
- **Rate** - Run speeds are fixed at 2000 rpm, 2500 rpm, 3000 rpm.
- **Rest** - Runtime is inactive between cycles and can be set in 15 second increments up to 5 minutes.
- **Cycles** - 1 to 5 (the number of runtimes).

Step 5. To set a programmed run push the FUNCTION button to select the Runtime, Rate, Rest, and Cycles**.** Press the plus button (**+**) to increase the selected parameter or press the minus button (**-**) to decrease the parameter.

Step 6. To exit the Function programming screen push the STOP button.

Step 7. Push the START button to begin a programmed run. The timer counts down in 1-second increments, showing the time left in the run. When the timer reaches zero and the motor shuts off, the timer will display RUN COMPLETE. The safety interlock switch prevents the unit from running if lid is open.

Step 8. To have the mill pause during a run and retain the timer setting, push the PAUSE button. The motor will shut off and PAUSED will appear on the display. To resume the run, close lid and push START; the timer will briefly display the exact number of seconds left in the run and then continue to count down in 1-second increments. To abort the run, push STOP; RUN COMPLETE will be displayed.
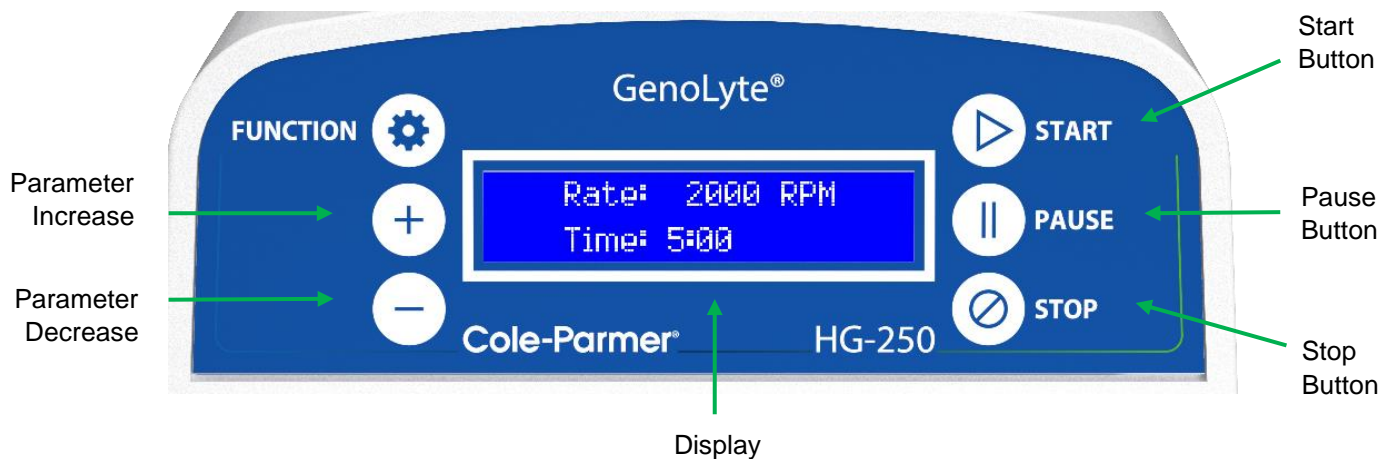
Figure 1 – Control Panel

Our Application Specialists at Cole-Parmer are here to help with advice on accessories and grinding protocols.

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