

USER MANUAL

GLH 850 General Laboratory Homogenizer

Version: J Date: October 2024 Document Number: 03-270

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This product has been engineered for safety; however, basic safety precautions and common sense must always be demonstrated when using any electrical product.

- Use this product only for its intended purpose.
- Keep this product away from heated surfaces.
- **DO NOT** attempt to modify any part of this product.
- **DO NOT** allow the machine to be submerged in any liquid.
- **DO NOT** use in any setting other than an indoor laboratory.
- DO NOT use attachments not recommended by the manufacturer.
- DO NOT operate the product if it is damaged in any way.
- DO NOT operate the product with the safety ground disconnected.
- **DO NOT** modify the plug or cord that is provided.

WARNING: Reduce the risk of unintentional starting; make sure the machine is OFF before plugging into a power supply.

WARNING: Damaged or worn power cords should be repaired or replaced immediately by a qualified electrician.

WARNING: Improper connection of the equipment can result in a risk of electric shock.

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Proper Equipment Operation

To reduce the risk of electric shock, do not remove the cover. No user serviceable parts are inside. Refer to qualified service personnel if help is required. Use this product only in the manner described in this manual. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

FCC

This device complies with part 15 of the FCC (United States Federal Communications Commission) Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation.

CE/UKCA

This device complies with all CE and UKCA rules and requirements.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment is marked with the crossed-out wheeled bin symbol, to indicate that this equipment may not be disposed of as unsorted municipal waste.

It's your responsibility to correctly dispose of your equipment at life-cycle end, by handing it over to an authorized facility for separate collection and recycling of waste equipment. It's also your responsibility to decontaminate your equipment in case of biological, chemical or radiological contamination, and so protect the persons involved in the disposal and recycling of the equipment from health hazards.

For more information about where you can dispose of your waste equipment, please contact your local dealer, from whom you purchased the equipment.

By doing so, you will help to preserve natural and environmental resources and you will ensure that your equipment is recycled in a manner that protects human health.



Table of Contents

Table of Symbols

Symbol	Description	Symbol	Description
	Caution. Refer to the User documentation (ISO 7000-0434B)		On (power). (IEC 60417-5007)
	Hazardous voltage; risk of electric shock. (IEC 60417-6042)	0	Off (power). (IEC 60417-5008)
	- Fuse. (IEC 60417-5016)		Consult Instructions for Use. (ISO 7000-1641)
AC	Alternating current. (IEC 60417-5032)	CE	CE Compliance Mark
UK CA	UKCA Certification Mark		WEEE symbol (EN50419:2005)
RoHS	RoHS Certification Mark		KC Certification Mark

Specifications

Part Number	20-010 (120V) or 20-020 (220V)	
Input Voltage	20-010 - 100-115V, 50/60 Hz and 20-020 - 200-220V, 50/60 Hz	
Weight	3.52 lbs. (1.6 kg)	
Dimensions	W: 2.75″ (7 cm), H: 8.5″ (21.6 cm)	
Power	850 Watts	
Speed	5,000 - 25,000 rpm (increments of 500 rpm)	
Standards Approval	CE and UKCA Approved	

Site Requirements

Operating Environment

4°C to 40°C / 39°F to 104°F, Humidity: 5% to 95% RH

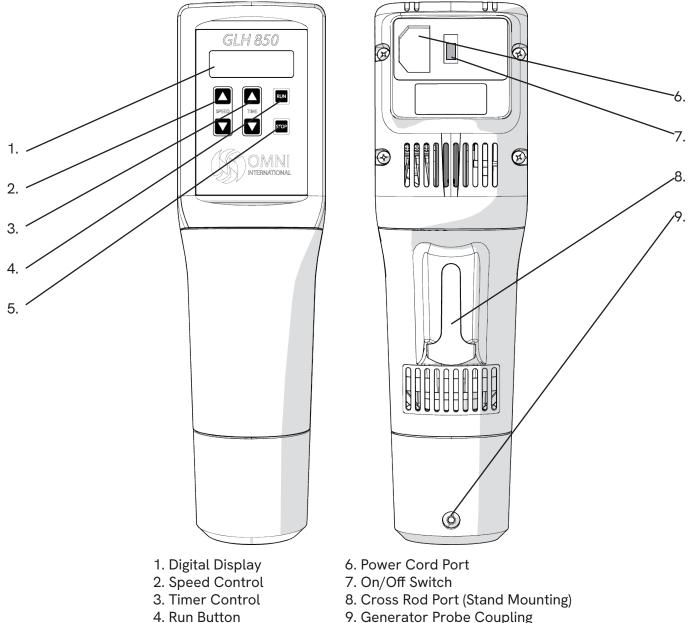
Ambient Air

The system must be located in an area where the ambient air is clean. No emission of solid particles or smoke in the air by adjacent equipment is allowed. The level of dust should be comparable to that of normal laboratory spaces.

External Fire Protection

External fire protection should be installed according to local regulations for equipment operating unattended.

System Overview



- 5. Stop Button
- 9. Generator Probe Coupling

Description	Part Number	Quantity
Motor Drive Unit 110V or 220V	20-100-00 or 20-200-00	1
Power Cords 110V or 220V	LT710 or LT708/LT712	1
Cross Rod/Plate	50041/50060	1
Clamp	FS1002	1
Tool Kit	T1001	1
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The GLH 850 consists of the following:

Optional Stand Available (sold separately) - Order No. S1000

General Operation

Power

- Plug in the power cord and move the On/Off switch on back of the unit to the On position.

Set Speed

- Adjust speed using up and down arrow buttons.

Set Timer

- Adjust run time using up and down arrow buttons.

Start

- Press Run button.

Delayed Start

- Press and hold the Run button for 3 seconds. The display will then countdown for 30 seconds before beginning to run.

Constant Run

- Set the timer above 9:59 or below 0:01. The display will read Constant Run. Press Run to start.

Pause/Stop

- Press Stop Button to Pause.
- Press Stop again to reset timer.

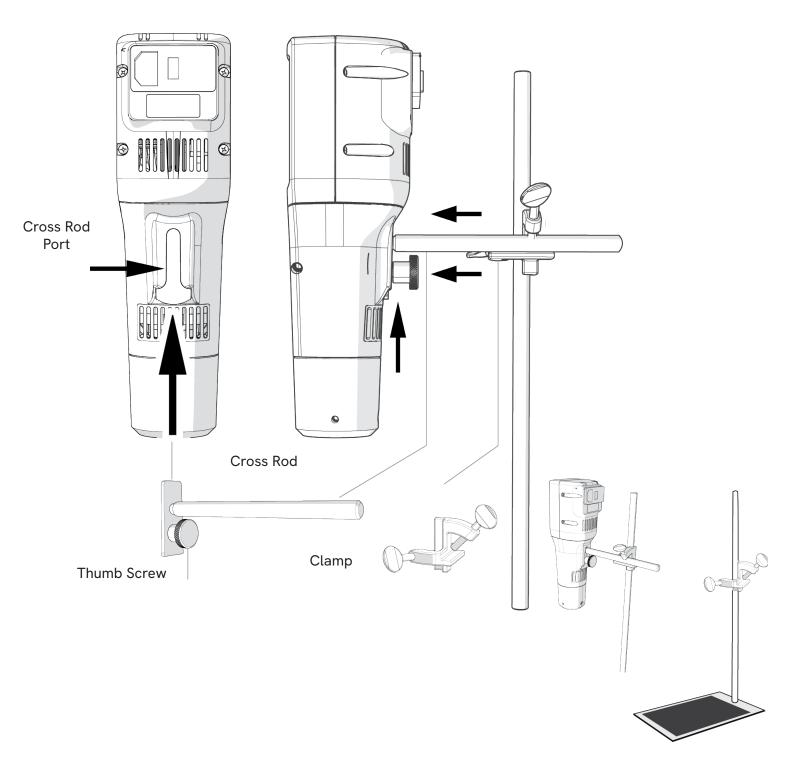
Stand Mounting the GLH 850

The Stand Assembly (S-1000) is sold separately.

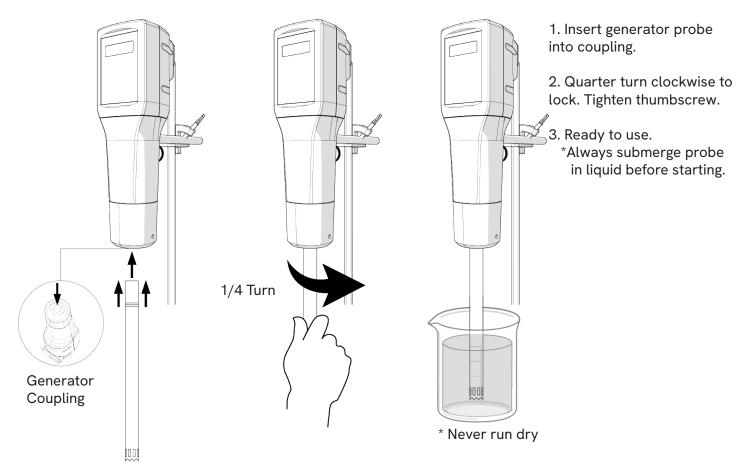
1. Assemble the stand.

2. Insert the cross rod into the cross rod port at the back of the unit and tighten the thumb screw by turning clockwise until tight.

3. Loosen the second knob on the post clamp and insert the cross rod with motor attached (approximately 1" of the cross rod should protrude from the back of the post clamp). Lock in place.



Inserting Generator Probes into the GLH 850



WARNING: The blue protective cap must be removed from the end of the generator probe before operating.

Troubleshooting

Error Code	Definition	Possible Solution	
Error 1	Motor is not turning.	Motor has overheated.	Unplug and let stand for at least 1 hour at room temperature, then attempt to restart.
		Motor brushes could be worn down from heavy use.	Replace brushes using 20-110-05R or 20-220- 05R depending on motor voltage rating.
			Remove generator probe and attempt to run the motor.
		Something is physically preventing the motor from turning.	Check that the generator probe (removed from the motor) spins freely.
			Check for foreign objects inside the generator probe port.
Error 2	Motor has failed to reach the de- sired speed, or is drawing too much power to reach speed desired.	Generator probe is too large for the speed desired or the sample is too large/viscous to	Reduce desired speed.
			Reduce the generator probe size.
		be processed.	Reduce the viscosity of the sample being pro- cessed.

WARNING: Any service must be performed by a qualified service technician. This can be either an Revvity Technician or an end user resource.

All parts need to be sourced from the Revvity service department.

Accessories - Generator Probes for the GLH 850

Diameter	Length	Processing Range	Туре	Part Number
F	75	200 µL - 5 mL	Flat Bottom	G5-75
5 mm	75 mm		Flat Bottom - Wide Window	G5-75W
7 mm 11		250 µL - 30 mL	Saw Tooth	G7-115ST
	115 mm		Saw Tooth - Wide Window	G7-115STW
10 mm	115 mm	1.5 mL - 100 mL	Saw Tooth	G10-115
			Saw Tooth - Wide Window	G10-115W
20 mm 1	195 mm	100 mL - 2 L	Saw Tooth	G20-195ST
			Saw Tooth - Wide Window	G20-195STW
30 mm	195 mm	200 mL - 5 L	Flat Bottom	G-30NA-195
			Flat Bottom - Wide Window	G-30WA-195

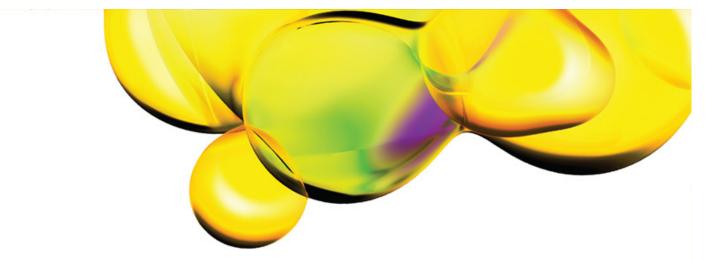
Accessories - Disposable Probes for the GLH 850

Diameter	Length	Туре	Pack Qty	Part Number
7 mm	110 mm	Soft Tissue	25	30750H
7 mm	110 mm	Soft Tissue	50	32750H
7 mm	110 mm	Hard Tissue	25	30750
7 mm	110 mm	Hard Tissue	50	32750
12 mm	110 mm	Hard Tissue	25	301250
12 mm	110 mm	Hard Tissue	50	321250

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