

GCM-12 / High Speed Microcentrifuge

Quick Start Guide

What's in the box:

- Quick Start Guide
- Centrifuge
- Power Cables (3 each)
- Power Brick
- Rotor
- Door Key (small screwdriver)



UNPACKING THE UNIT

Please be sure to remove any packing materials used during initial shipment:



- 1) Open the lid: Use the included Door Key to press the button on the right side of the unit.



- 2) Remove foam pads at the hinge latch and from around the rotor.

LOADING INSTRUCTIONS

IMPORTANT: The rotor should always be loaded in a balanced manner to avoid personal injury and to ensure centrifuge longevity.

- When any tube is loaded, a tube of the same type, volume and weight must be added in the opposite rotor location.
- Never intentionally run the centrifuge in an unbalanced condition even if operation is not affected.

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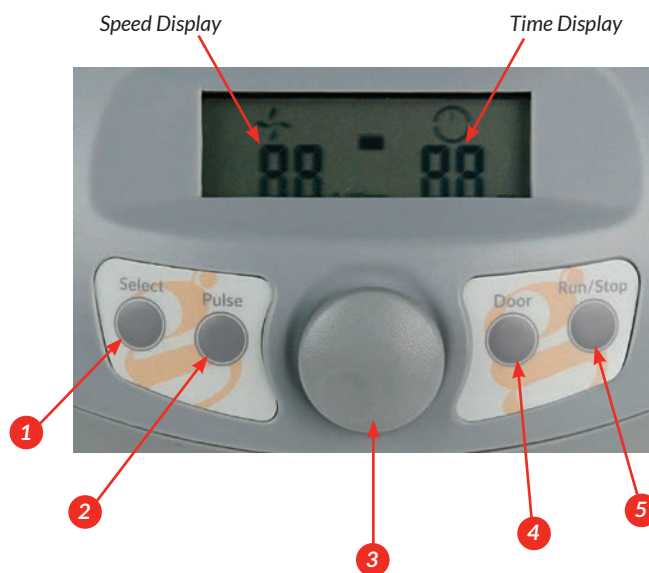
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OPERATION

IMPORTANT: Plug unit into appropriate main supply based on the rated voltage.

- 1 Select**..... Press to choose the parameter you wish to modify.
- 2 Pulse** Press to accelerate and hold at the set speed. The centrifuge stops immediately once this button is released.
- 3 Adjustment Knob** Rotate clockwise to increase parameter values. Rotate counterclockwise to decrease parameter values. Press to switch between speed and RCF.
- 4 Door**..... Press to open the lid. This button is not enabled while the centrifuge is running.
- 5 Run / Stop** Press to start the centrifuge. Press to stop if centrifuge is already running.

CONTROL PANEL



Rotor Type	Tube Type	Adapter Required	Maximum Speed (rpm)	Maximum RCF (×g)	Allowable Imbalance	
					Imbalance	Volume Imbalance
GCM-12-R	1.5/2.0mL Tube	—	15000	15100	2.0g/Tube	5mm/Tube
	0.2mL PCR Tube	MC-12-AD2	15000	11700		
	0.5mL PCR tube	MC-12-AD5	15000	12780		

The centrifuge rotor can separate samples whose density is lower than 2.0g/ml. If the separated sample's density is over 2.0g/ml, please calculate the allowable speed using the following formula:

$$\text{Allowable Speed (rpm)} = \text{Maximum Speed} \times (2.0(\text{g/ml}) / \text{Sample Density (g/ml)})^{1/2}$$

For the full User Manual, please visit www.globescientific.com



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