

GCM-R-24

Microcentrifuge

Quick Start Guide

What's in the box:

- Quick Start Guide
- Centrifuge
- Power Cable
- Rotor
- Rotor Wrench/ Door Key
- Fuses (2 each)



UNPACKING THE UNIT

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

- 1) Open the lid: Use the included orange-handled Door Key to press the button on the right side of the unit.
- 2) Remove foam pads at the hinge latches.



INSTALLING AND BALANCING THE ROTOR

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

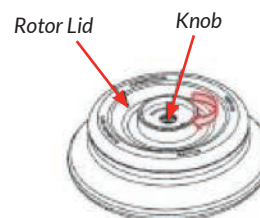
- When any tube is loaded, a tube of the same type, volume and weight must be added in the opposite rotor location.
- Never intentionally run the centrifuge in an unbalanced condition even if operation is not affected.



Load the Rotor Onto the Shaft



Symmetrically Load Centrifuge Tubes Into Rotor



Install the Rotor Lid

Continued ...

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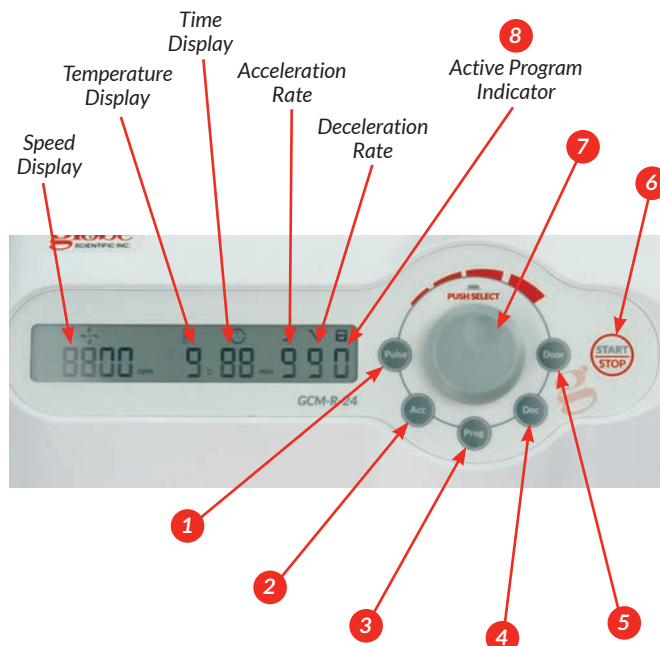
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OPERATION

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

- 1 Pulse** Press to accelerate and hold at the set speed. The centrifuge stops immediately once this button is released.
- 2 Acc** Press to adjust Acceleration speed. This can be adjusted through nine levels with 9 being the fastest.
- 3 Prog** Press to choose the parameter you wish to modify.
- 4 Dec** Press to adjust Deceleration speed. This can be adjusted through nine levels with 9 being the fastest.
- 5 Door** Press to open the lid. This button is not enabled while the centrifuge is running.
- 6 Start / Stop** Press to start the centrifuge. Press to stop if centrifuge is already running.
- 7 Adjustment Knob** Rotate clockwise to increase parameter values. Rotate counterclockwise to decrease parameter values. Press to switch between speed and RCF.
- 8 Program Indicator** Indicates either the program number to which current parameters will be saved or the program that is currently running.

CONTROL PANEL



Rotor Type	Tube Type	Adapter Required	Maximum Speed (rpm)	Maximum Centrifugal Radius (cm)	Maximum RCF (xg)
GCM-24-2ML	2.0/1.5mL Tube	—	15000	8.5	21380
	0.2mL PCR Tube	GCM-24-AD2	15000	6.9	17350
	0.5mL PCR tube	GCM-24-AD5	15000	7.6	19100
GCM-24-05ML (optional)	0.5mL PCR tube		15000	8.5	21380
	0.2mL PCR Strip	GCM-24-AD52	15000	7.6	19100
GCM-24-PCR (optional)	0.2mL PCR Strip	—		6.5/7.2	16350/18100

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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