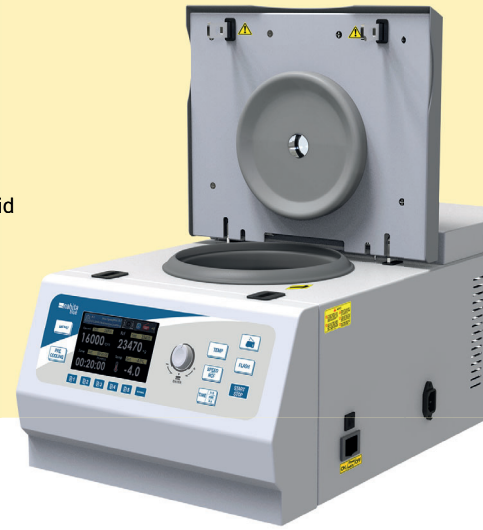
High-speed refrigerated centrifuge

Code GLF002

The model 2821R high-speed centrifuge for angle rotors combines great versatility and ease of use. It incorporates the latest control technology, reliable quality and superior performance and is widely used in medical laboratories, biochemical and molecular biology research, as well as routine analysis in industrial laboratories. It excels in experimental genetic research, nucleic acid, protein and PCR products, and in any application where high-speed centrifugation at a constant, cool temperature is required.

- Electrically controlled double automatic priming closure.
- 5-inch IPS LCD screen.
- Automatic angular rotor recognition.
- ECO compressor start/stop function and rapid pre-cooling.
- PID digital temperature control.

- High-speed centrifuge commonly used in microbiological laboratories, pharmaceuticals, universities, research centres and industry.
- Compatible with angle rotors of different capacities and number of tubes.
- Steel housing and base. Stainless steel inner tank and steel safety chamber between the tank and the cabinet.
- It has a compressor with R134a gas environmentally friendly **SECOP®,** for optimum cooling of the chamber with start/stop function that switches off if it detects the lid is open and switches on when it is closed. Ability to maintain the sample at 4ºC at maximum speed and load.
- Metal base cover with suspension mechanism and peephole.
- Digital microprocessor control, 5-inch backlit LCD display and single control selector and buttons. Electromechanical lock that prevents the lid from opening during centrifugation. Manual opening of the lid in case of power failure.
- Safety system that automatically stops the equipment if the maximum speed is exceeded.
- Speed programming in RPM or FCR. Maintenance-free induction motor.
- The motor is controlled by an advanced and reliable sine wave vector FOC system that can precisely control speed, time and relative centrifugal force (RCF).
- External USB2.0 interface: Facilitates system upgrades and downloading of experimental data.



Technical specifications

Code	GLF002
Model	2821R
Speed	100~16000 rpm (10 rpm increment)
FCR	24100 ×g (10 ×g increment)
Timer	1-99 hours/1-59 minutes/1-59 seconds. Three modes available. Accuracy ± 1 second
Temperature range	-20ºC~+40ºC
Min. temp. at max. speed	0 ºC
Max. Capacity	50 mL
Weight	47 Kg
Dimensions	360 × 600 × 285 mm
Feeding	AC220 V / 50-60 Hz
Consumption	650 W
Memory	10 customised programmes
Acceleration ramps	1-9
Braking ramps	0-9

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Angle rotors

Angle rotor | GLK027
1.5/2 mL×24
16000 rpm / 24100 ×g

Micro haematocrit rotor | GLK017
50 µl×24
12000 rpm/13600 ×g

Angle rotor | GLK018
5 mL×10
16000 rpm / 18140 ×g

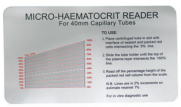
Angle rotor | GLK028
0.2 mL×8×4
14800 rpm / 16200 ×g

Angle rotor | GLK029
0.5 mL×36
15000 rpm / 16350 ×g

Accessories

Adapter | GDF001
0,2mL tubes

Adapter | GDF002
0,5mL tubes



Microhematocrit capillaries reading card |GLL001
Used with the GLK017 microhematocrit rotor in the GLC005 and GLF002 centrifuges

Compatibility of accessories

Code	Description	Tubes required	Used in	Including
GLF002				
GLK027	Angle rotor for 24 x 1.5/2mL tubes	PP round/conical bottom with lid	Centrifuge	No
GLK017	Angle rotor for 24 micro haematocrit capillaries	capillary and ø 1.5mm × L75mm	Centrifuge	No
GLK018	Angle rotor for 10 x 5mL tubes	PP round bottom with lid	Centrifuge	No
GLK028	Angle rotor for 4 x 0.2mL PCR strips	PP conical-bottom PCR tube with cap	Centrifuge	No
GLK029	Angle rotor for 36 x 0.5mL microtubes	PP conical bottom with lid	Centrifuge	No
GDF001	Microtube adapter 0.2 mL, series 2507	PP conical bottom with lid	GLK027	Yes*
GDF002	Microtube adapter 0.5 mL, series 2507	PP conical bottom with lid	GLK027	Yes*

*Included with the rotor, not with the equipment.

RECOMMENDED TUBES

0.2mL microtubes	BGN003, BGN026
0.5mL microtubes	BGN004
2mL microtubes	BGN025
1.5mL microtubes	BGN005, BGN011, BGN012, BGN013, BGN014, BGN015, BGN027
5 mL microtubes	BGN029
8×0.2 mL microtube strip	BGN006