



High-speed refrigerated centrifuge

Code GLF003

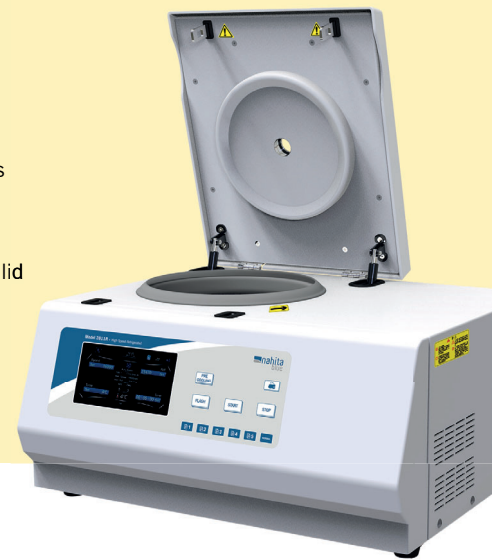
This high-capacity (up to 400 mL) high-speed refrigerated centrifuge has a wide range of rotors combining powerful features, versatility and simplicity. It can handle 0.2 mL, 0.5 mL, 1.5/2 mL, 5 mL, 10 mL, 15 mL, 50 mL, 100 mL and capillary tubes with a maximum RCF of 24100 xg in a temperature range of -20°C~+40°C with a fast pre-cooling function.

It incorporates innovative control technology, reliable quality and superior performance and is widely used in medical clinical biochemistry, haematology, immunology, clinical research, molecular biology research and routine analysis in industrial laboratories. It excels particularly in the experimental research of genetics, nucleic acids, proteins and PCR products.

Ideal for applications where a constant temperature must be maintained and sample deterioration must be avoided.

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

- 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 4°C at maximum speed and load.
- Metal base cover with suspension mechanism and peephole.
- Digital microprocessor control, backlit LCD display and keypad.
- 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 (RFC).
- External USB2.0 interface: Facilitates system upgrades and downloading of experimental data.



Technical specifications

Code	GLF003
Model	2811R
Speed	200~16000 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	-20°C~+40°C
Min. temp. at max. speed	0 °C
Max. Capacity	400 mL
Weight	60 Kg
Dimensions	493 × 584 × 345 mm
Feeding	AC220 V / 50-60 Hz
Consumption	750 W
Memory	30 customised programmes (5 external buttons for quick access)
Acceleration ramps	1-9
Braking ramps	0-9



Angle rotors



Angle rotor | GLK016
1.5 / 2 mL×24
16000 rpm / 24100 ×g



Angle rotor | GLK020
0.5 mL×36
15000 rpm / 16350 ×g



Angle rotor | GLK022
5 mL×12
16000 rpm / 18890 ×g



Angle rotor | GLK019
0.2 mL×8×4
14800 rpm / 16200 ×g



Angle rotor | GLK024
15 mL×8
13000 rpm / 17570 ×g



Angle rotor | GLK025
50 mL×6
12000 rpm / 14750 ×g



Angle rotor | GLK026
100 mL×4
12000 rpm / 15940 ×g



Angle rotor | GLK023
10 mL×12
13000 rpm / 15315 ×g



Angle rotor | GLK042
1.5/2 mL×36
14000 rpm / 17970 ×g

Accessories



Adapter | GDF001
Tubes 0,2 mL



Adapter | GDF002
Tubes 0,5 mL



Adapter | GDF014
15 mL



Bottom pad | GDF015
50 mL

Compatibility of accessories

Code	Description	Tubes required	Used in	Including
GLF003				
GLK016	Angle rotor for 24 x 1.5/2 mL tubes	PP round/conical bottom with lid	Centrifuge	No
GLK020	Angle rotor for 36 x 0.5 mL microtubes	PP conical bottom with lid	Centrifuge	No
GLK022	Angle rotor for 12 x 5 mL tubes	PP round bottom with lid	Centrifuge	No
GLK019	Angle rotor for 4 x 0.2 mL PCR strips	PP conical bottom with lid	Centrifuge	No
GLK024	Angle rotor for 8 x 15 mL tubes	PP conical bottom with lid	Centrifuge	No
GLK025	Angle rotor for 6 x 50 mL tubes	PP conical bottom with lid	Centrifuge	No
GLK026	Angle rotor for 4 x 100 mL tubes	PP round bottom with lid	Centrifuge	No
GLK023	Angle rotor for 12 x 10 mL tubes	PP round bottom with lid	Centrifuge	No
GLK042	Angle rotor for 36 x 1.5/2 mL microtubes	PP round/conical bottom with lid	Centrifuge	No
GDF001	Microtube adapter 0.2 mL, series 2507	PP conical bottom with lid	GLK016/GLK042	Yes*
GDF002	Microtube adapter 0.5 mL, series 2507	PP conical bottom with lid	GLK016/GLK042	Yes*
GDF014	Adapter for 15 mL tubes	PP conical bottom with lid	GLK025	No
GDF015	Bottom pad for 50 mL tubes with round base	PP round bottom with lid	GLK025	No

*Included with the rotor, not with the equipment.

RECOMMENDED TUBES

0,2 mL microtubes	BGN003, BGN026
0,5 mL microtubes	BGN004
2 mL microtubes	BGN025
1,5 mL microtubes	BGN005, BGN011, BGN012, BGN013, BGN014, BGN015, BGN027
Microtube strip 8×0.2 mL	BGN006
Falcon tubes 15 mL	BGD010, BGD082, BGD083, BGD084, BGD024, BGD025, BGD039, BGD029, BGD030, BGD031, BGD032, BGD033
Falcon tubes 50 mL	BGD011, BGD085, BGD086, BGD087, BGD072, BGD026, BGD040, BGD034