



## Low-speed refrigerated centrifuge Multibas+

### Code GNF002

The Multibas+ refrigerated low-speed, high-capacity centrifuge combines powerful features, and very high versatility, being able to use both angular and swing out rotors, with a maximum capacity of up to 480 mL and specially designed for use with most 5 ml blood sampling tubes, 3/5/7 ml, 10/15 ml, 50 ml and 100 ml centrifuge tubes, as well as microplates and deep-well plates.

Specially designed for heavy workloads. It is easy to operate and incorporates the latest control technology, proven quality and superior performance. Widely used in clinical biochemistry, haematology, immunology and clinical practice and all applications where a significant amount of centrifugation is required.

Especially suitable for research, molecular biology and routine laboratory analysis in experimental research on genetics, proteins, nucleic acids and PCR products, where temperature control is critical.



- Multi-purpose centrifuge commonly used in microbiological laboratories, pharmaceuticals, universities, research centres and industry.
- 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.
- Autoclavable swing out rotor included, to which various autoclavable tube holders (not included) can be attached.
- Digital microprocessor control, 7-inch backlit IPS LCD colour display.
- Electromechanical lock that prevents the lid from opening during centrifugation.
- Manual opening of the cover 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).
- Ambient light that displays the device status from a distance.
- The external USB2.0 interface makes it easy to update the system and download experimental data.

## Technical specifications

Code	GNF002
Model	2751R
Speed	200~6000 rpm (10 rpm increment)
FCR	5150 ×g
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	480 mL
Dimensions	560 × 680 × 376 mm
Weight	76 Kg
Feeding	AC220 V/50-60 Hz
Consumption	650 W
Memory	30 customised programmes (5 external buttons for quick access)
Acceleration ramps	1-9
Braking ramps	0-9



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## Swing out rotors



Swing out rotor | GNM004  
5000 rpm / 4980 ×g



Tube holder | GNP003  
100 mL×4  
5000 rpm/4600 ×g



Tube holder | GNP004  
50 mL×4  
5000 rpm / 4980 ×g



Tube holder | GNP005  
50 mL×8  
4000 rpm / 3040 ×g



Tube holder | GNP006  
8/10/15 mL×24  
4000 rpm / 3040 ×g



Tube holder | GNP007  
8/10/15 mL×32  
4000 rpm / 3040 ×g



Tube holder | GNP008  
3/5 mL×48  
4000 rpm / 3040×g



Tube holder | GNP009  
3/5/7 mL×72  
4000 rpm / 3040 ×g

## Other rotors



Angle rotor | GNM005  
15 mL×12  
6000 rpm / 5150 ×g



Angle rotor | GNM006  
50 mL×8  
6000 rpm / 5150 ×g



Angle rotor | GNM007  
15 mL×30  
5000 rpm / 4100 ×g



Microplate rotor | GNP014  
4 Microplates×2×96  
2 Deep well plates×2×96  
4000rpm/2860×g

## Adapters and bottom pads



Bottom pad | GLK009  
3 mL



Adapter | GLK010  
5 mL



Adapter | GLK011  
8 mL



Adapter | GLK015  
15 mL



Bottom pad | GLK012  
15 mL



Bottom pad | GLK013  
50 mL



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### Compatibility of accessories

Code	Description	Tubes required	Used in	Including
GNF002				
GNM004	Swing out rotor	-	Centrifuge	Yes
GNP004	4x50 mL tube holder set	PP round/conical bottom with lid	GNM004	No
GNP003	4x100 mL tube holder set	PP round bottom with lid	GNM004	No
GNP005	Tube holder set 8x50 mL	PP round/conical bottom with lid	GNM004	No
GNP006	Tube holder set 24x15 mL	Urine sediment tube/round/ tapered PP round/conical with lid	GNM004	No
GNP007	Tube holder set 32x15 mL	Urine sediment tube/round/ tapered PP round/conical with lid	GNM004	No
GNP008	Tube holder set 48 pcs 13x100 mm	Vacutainer tube 13x100 mm	GNM004	No
GNP009	Tube holder set 72 pcs 13x75 mm	Release tube G	GNM004	No
GNP014	Rotor 8 microplates	4 Microplatesx2x96/2 Deep Well Platesx2x96	Centrifuge	No
GNM005	Angle rotor for 12 x 15 mL tubes	PP round/conical bottom with lid	Centrifuge	No
GNM006	Angle rotor for 8 x50 mL tubes	PP round/conical bottom with lid	Centrifuge	No
GNM007	Angle rotor for 30 x15 mL tubes	PP round/conical bottom with lid	Centrifuge	No
GLK009	Bottom pad for 3 mL tubes	Vacutainer tube 13x75 mm	GNP008	Yes*
GLK010	Adapter for 5 mL tubes	Vacutainer tube 13x100 mm	GNM005 GNP006 GNP007	No
GLK011	Adapter for 8 mL tubes	Vacutainer tube 16x100 mm	GNM005 GNP006 GNP007	No
GLK012	Bottom pad for 15 mL tubes	PP conical bottom with lid	GNP006 GNP007 GNM005	No
GLK013	Bottom pad for 50 mL tubes	PP conical bottom with lid	GNP004 GNP005 GNM006	No
GLK015	Adapter for 15 mL tubes	PP conical bottom with lid	GNM006	No

\*Included with the rotor, not with the equipment.

### RECOMMENDED TUBES

<b>Falcon tubes 15mL</b>	BGD010, BGD082, BGD083, BGD084, BGD024, BGD025, BGD039, BGD029, BGD030, BGD031, BGD032, BGD033
<b>50 mL tubes</b>	BGD011, BGD085, BGD086, BGD087, BGD072, BGD026, BGD040, BGD034
<b>100 mL tubes</b>	GLK001