

centrifuges  
**catalogue**

 **nahita**  
blue



## OUR BRAND



Welcome to the world of Nahita-Blue, where experience and innovation converge to bring you the finest selection of laboratory equipment. With over 15 years in the industry, Nahita-Blue signifies quality and reliability.

At Nahita-Blue, we understand the importance of innovation and reliability in every experiment. Our extensive range of equipment has been meticulously designed to meet the demands of laboratories worldwide. From spectrophotometers to shakers, each product reflects our commitment to excellence.

This catalog introduces you to our new and comprehensive range of centrifuges, crafted to meet the demands of discerning laboratories. Developed with the latest technology to ensure precise and consistent results with every use. A direct response to the evolving needs of modern research.

Nahita-Blue is not just a brand; it's your ally in the laboratory world. Explore our brochure and immerse yourself in the innovation that defines Nahita-Blue. Browse our catalog and dive into a world of possibilities to propel your research projects towards success.

## DIRECTIVES AND STANDARDS

### FROM THE COMPANY

ISO 9001 Quality Management System Certification.

### FOR PRODUCTS

#### Directives:

2014/35/UE (EMC) Harmonization of laws of Member States regarding electromagnetic compatibility.

2014/30/UE (LVD) Harmonization of laws of Member States regarding the marketing of electrical equipment for use.

#### Standards:

EN-61010-1:2010 Safety requirements for electrical measuring, control, and laboratory use equipment. Part 1: General requirements

EN-61326-1:2013 Electrical equipment for measurement, control, and laboratory use. Electromagnetic compatibility (EMC) requirements. Part 1: General requirements.



## WHY CHOOSE US?



### Price

Excellent value for money, ensuring the highest profitability for our clients.



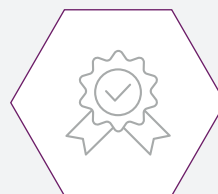
### Service

Immediate delivery. Orders leave our warehouses within 24/48 hours.



### Stock

Large quantity of products in stock with a low breakage volume.



### Quality, 2 years warranty

Nahita-Blue backs the quality of its equipment with an extended warranty, providing security with every use.



### After-sales service

Qualified technical service and department that handles all the needs of our clients

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# Equipment comparison table Nahita Blue Centrifuges

	CODE	MAX. CAPACITY	COOLING	SPEED (rpm)	
SINGLE-ROTOR	GBF001	90 mL (6×15 mL)	-	1.000-4.000	
	GBF011	180 mL (12×15 mL)	-	500-4.000	
	GBF012	180 mL (12×15 mL)	-	500-4.000	
MINI-CENTRIFUGES	GDC008	16 mL (8×2 mL)	-	4.000	
	GDC001	16 mL (8×2 mL)	-	7.000	
	GDC002	16 mL (8×2 mL)	-	10.000	
	GDC009	16 mL (8×2 mL)	-	12.000	
	GDC003	16 mL (8×2 mL)	-	4.000 / 7.000 / 10.000	
	GDC004	16 mL (8×2 mL)	-	4.000 / 7.000 / 10.000	
	GDC005	20 mL (4×5 mL)	-	4.000 / 7.000 / 10.000	
	GDC006	30,4 mL (32×0,2 mL + 12×2 mL)	-	500-1.200	
	GDC011	2× 96-well microplate	-	300-3.000	
	UNIVERSAL	GLC001	400 mL (4×100 mL / 8×50 mL)	Ventilation	100-6.000
		GLC003	400 mL (4×100 mL)	Ventilation	200-1.8000
GLC004		240 mL (24×10 mL)	-	100-4.000	
GLC005		50 mL (10×5 mL)	Ventilation	100-1.5000	
GLC006		450 mL (15mLX30)	Ventilation	100-6.000	
GLF002		50 mL (10×5 mL)	Refrigerated	100-16.000	
GLF003		400 mL (4×100 mL)	Refrigerated	100-16.000	
HIGH CAPACITY		GNC001	480 mL (32×15 mL)	Ventilation	100-6.000
	GNC002	2.000 mL (4×500 mL)	Ventilation	200-6.000	
	GNC003	2.000 mL (4×500 mL)	Ventilation	200-6.000	
	GNF001	400 mL (4×100 mL / 8×50 mL)	Refrigerated	100-6.000	
	GNF002	480 mL (32×15 mL)	Refrigerated	200-6.000	
	GNF003	2.000 mL (4×500 mL)	Refrigerated	200-6.000	
	GNF005	2.000 mL (4×500 mL)	Refrigerated	200-6.000	
	GNF004	1.000 mL (4×250 mL)	Refrigerated	200-18.000	

FCR (×g)	SCREEN TYPE	FEEDING CONSUMPTION	DETECTION AUTOMATIC ROTOR
1.790	✓ (LED)	220V / 50Hz   90W	-
2.300	✓ (LCD)	220V / 50Hz   120W	-
2.300	✓ (LCD)	220V / 50Hz   80W	-
990	-	100-250V / 50-60Hz   12W	-
2.910	-	100-250V / 50-60Hz   18W	-
5.610	-	100-250V / 50-60Hz   25W	-
8.550	-	100-250V / 50-60Hz   30W	-
990 / 2.910 / 5.610	-	100-250V / 50-60Hz   25W	-
990 / 2.910 / 5.610	-	12V   25W	-
990 / 2.910 / 5.610	-	100-250V / 50-60Hz   25W	-
9.660	✓ (LCD)	100-250V / 50-60Hz   45W	-
608	✓ (LCD)	DC24V / 2.75A   55W	-
5.150	✓ (LCD)	220V / 50-60Hz   350W	-
23.470	✓ (LCD)	AC220V / 50-60Hz   500W	✓
2.250	✓ (LED)	AC220V / 50-60Hz   110W	-
20.375	✓ (LCD)	AC220V / 50Hz   450W	✓
5.350	✓ (LCD)	AC220V / 50Hz   350W	✓
23.470	✓ (LCD)	AC220V / 50-60Hz   650W	✓
23.470	✓ (LCD), touch screen	AC220V / 50-60Hz   750W	✓
5.150	✓ (LCD)	AC220V / 50-60Hz   450W	✓
5.150	✓ (LCD)	AC220V / 50-60Hz   650W	✓
5.150	✓ (LCD)	AC220V / 50-60Hz   650W	✓
5.150	✓ (LCD)	AC220V / 50-60Hz   550W	✓
5.150	✓ (LCD), touch screen	AC220V / 50-60Hz   650W	✓
5.150	✓ (LCD), touch screen	AC220V / 50-60Hz   850W	✓
5.150	✓ (LCD), touch screen	AC220V / 50-60Hz   850W	✓
23.470	✓ (LCD), touch screen	AC220V/50-60Hz   850W	✓

# Equipment comparison table Nahita Blue Centrifuges

	CODE	MEMORY	ROTOR TYPE	BRAKING PROGRAMMABLE
SINGLE-ROTOR	GBF001	-	Angle rotor	-
	GBF011	-	Angle rotor	-
	GBF012	-	Angle rotor	-
MINI-CENTRIFUGES	GDC008	-	Angle rotor	-
	GDC001	-	Angle rotor	-
	GDC002	-	Angle rotor	-
	GDC009	-	Angle rotor	-
	GDC003	-	Angle rotor	-
	GDC004	-	Angle rotor	-
	GDC005	-	Angle rotor	-
	GDC006	-	Angle rotor	-
	GDC011	-	Angle rotor for microplates	-
	UNIVERSAL	GLC001	30 customised programmes	Swing-out rotor and angle rotor
GLC003		10 customised programmes	Angle rotor	✓
GLC004		-	Angle rotor	-
GLC005		30 customised programmes	Angle rotor	✓
GLC006		30 customised programmes	Swing-out rotor and angle rotor	✓
GLF002		10 customised programmes	Angle rotor	✓
GLF003		30 customised programmes	Angle rotor	✓
HIGH CAPACITY	GNC001	10 customised programmes	Swing-out rotor and angle rotor	✓
	GNC002	10 customised programmes	Swing-out rotor and angle rotor	✓
	GNC003	10 customised programmes	Swing-out rotor and angle rotor	✓
	GNF001	10 customised programmes	Swing-out rotor and angle rotor	✓
	GNF002	30 customised programmes	Swing-out rotor and angle rotor	✓
	GNF003	30 customised programmes	Swing-out rotor and angle rotor	✓
	GNF005	30 customised programmes	Swing-out rotor and angle rotor	✓
	GNF004	30 customised programmes	Swing-out rotor and angle rotor	✓

OPERATION WITH TIME	UNBALANCE DETECTION (WITH AUTOMATIC AUTOMATIC STOP)	ROTOR BIOSAFETY	ROTOR AUTOCLAVABLE
✓	-	-	-
✓	-	-	-
✓	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
✓	-	-	-
✓	-	-	-
✓	✓	-	✓
✓	✓	-	✓
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✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	-	✓
✓	✓	✓	✓
✓	✓	-	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	-	✓

# GBF001

## Digital angle centrifuge

Benchtop digital centrifuge for routine applications such as concentration of cell suspensions, separation of serum or plasma, etc.

Compact and stable design with digital speed and centrifugation time control.

### TECHNICAL SPECIFICATIONS

Code	GBF001
Model	2615/1
Speed	1000~4000 rpm (Incremental $\pm 500$ rpm)
FCR	1790 $\times g$
Timer	1-60 minutes
Capacity	6 x 15 mL (16x120 mm)
Weight	5 Kg approx.
Dimensions	280x280x250 mm
Feeding	220 V/50 Hz
Consumption	90 W

### PRODUCT BENEFITS

- Angle rotor with capacity for 6 x 15 mL tubes (dimensions 16x120 mm) with numbered positions.
- Transparent polycarbonate cover for viewing and control of the rotor.
- LED display for setting and displaying the operating time and speed.
- Digital speed control up to a maximum of 4000 rpm.
- Safety switch that prevents the centrifuge from operating if the lid is open and automatically stops centrifugation if the lid is opened.
- Elastic suspension motor ensures smooth operation.
- Suction cup feet for optimum attachment to the work surface.
- Adapters for 13x100 mm and 13x75 mm tubes available. See accessories.
- ON/OFF switch.

### CHARACTERISTICS

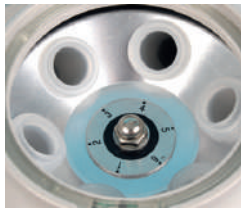
- Plastic housing.
- Angle rotor.
- Brushed motor.
- Safety device in lid.
- Suction cup feet.



## COMPATIBLE ACCESSORIES

## ROTOR INCLUDED

INCLUDING



Angle rotor 6  
6 x 15 mL

## ACCESSORIES



Accessory kit : GBK001  
6 tube holders  
6 bottom pads  
1 fuse



Adapter : GBK002  
13x100 mm tubes



Adapter : GBK003  
13x75 mm tubes

## COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
<b>GBF001</b>				
GBK001	Standard accessories kit 2615/1, 2650, 2652	15 mL Falcon tubes	Rotor	No
GBK002	Adapter for 13x100 mm tubes	Vacutainer tubes 13x100 mm	Rotor	No
GBK003	Adapter for 13x75 mm tubes	Vacutainer tubes 13x75 mm	Rotor	No

## RECOMMENDED TUBES

Falcon tubes 15 mL

BGD010, BGD082, BGD083, BGD084, BGD024, BGD025, BGD039, BGD029,  
BGD030, BGD031, BGD032, BGD033

# GBF011 and GBF012

## Digital angle centrifuge

This centrifuge is designed for any type of laboratory due to its robust and compact design. It can reach a speed of 4000rpm at full capacity which allows it to be very efficient.

The bright LCD display makes the speed and centrifugation time more readable. Sturdy base with built-in safety feature that does not allow the lid to open while the rotor is in motion.

### TECHNICAL SPECIFICATIONS

Code	GBF011	GBF012
Model	2650-D	2650-D+
Engine	With brushes	Induction (brushless)
Speed	500-4000 rpm (50 rpm increment)	500-4000 rpm (50 rpm increment)
FCR	2110 ×g (Increase of 10 ×g)	2110 ×g (Increase of 10 ×g)
Timer	10 sec - 99 min 59 sec	10 sec - 99 min 59 sec
Capacity	12 x 15 mL tubes (16×120 mm)	12 x 15 mL tubes (16×120 mm)
Weight	9,75 Kg	9,75 Kg
Dimensions	330×285×270 mm	330×285×270 mm
Feeding	220 V/50 Hz	220 V/50 Hz
Consumption	120 W	80 W

### PRODUCT BENEFITS

- High performance: Designed to achieve efficient centrifugation speeds, enabling fast and accurate sample separation.
- High capacity: Allows processing up to 12 samples (Falcon 15 mL, 16x120 mL tubes) in a single operation, improving the productivity of the laboratory. Intuitive control: User-friendly controls ensure uncomplicated operation, allowing lab technicians to perform tasks with ease.
- Robust design: Robust centrifuge that stands out for its high durability.
- Accurate results: Centrifugation stability together with precise adjustment options guarantee reproducible and reliable results in sample separation.
- It can be used in serum and plasma separation, cell concentration, suspension separation, biochemistry research and teaching. Excellent price/performance ratio.
- Lid contact switch and electromagnetic locking.
- With the GBK003 adapter, 13x75 mm (7 and 5 mL) and 13x100 mm (10 mL) Vacutainer tubes can be centrifuged by removing the bottom pad for the 13x100 mm tubes.

### CHARACTERISTICS

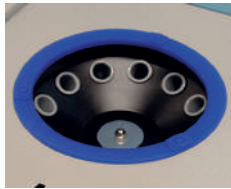
- Painted aluminium angle rotor.
- Digital parameter setting.
- Oven-painted steel housing.
- Hinged methacrylate lid with locking anchorage.
- Suction cup feet.
- Lid contact switch and electromagnetic locking.
- Falcon tubes (16×120 mm), with GBK003 adapter 13x75 mm and 13x100 mm Vacutainer tubes can be centrifuged (removing the bottom pad for 13x100 mm).



## COMPATIBLE ACCESSORIES

### ROTOR INCLUDED

INCLUDING



Angle rotor  
12 x 15 mL tubes  
(16x120 mm)

### ACCESSORIES

INCLUDING



Tube holder | GBK015



Adapter : GBK003  
Tubes 13x75 mm

## COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
<b>GBF011 and GBF012</b>				
GBK003	Adapter for 13x75 mm tubes	13x75 mm Vacutainer type tubes	Rotor	No
GBK015	Tube holder for 2650-D and 2650-D+ centrifuges	15 mL Falcon type tube	Rotor	Yes

## RECOMMENDED TUBES

Falcon tubes 15 mL

BGD010, BGD082, BGD083, BGD084, BGD024, BGD025, BGD039, BGD029, BGD030, BGD031, BGD032, BGD033

# GDC001, GDC002, GDC008 and GDC009

## Mini fixed speed centrifuges

Mini Fixed Speed Centrifuges are of modern design and advanced manufacturing technology, with smooth and beautiful appearance, compact and stable structure, high versatility and easy operation. Suitable for microtube filtration, HPLC sample preparation, rapid centrifugation, microscale blood cell separation, microbial sample processing and partitioning in PCR experiments. It can prevent liquid from sticking to the tube wall.

Nahita mini centrifuges are small, quiet, very stable and easy to use. They offer smooth and quiet operation even at high speeds. The lid design allows easy opening by pressing the open button without compromising safety: the rotor will stop automatically when the lid is opened.

They are the ideal centrifuges for small samples that need to be centrifuged.

### TECHNICAL SPECIFICATIONS

Code	GDC008	GDC001
Model	2507/4	2507/7
Speed	4000 rpm $\pm$ 3 %	7000 rpm $\pm$ 3 %
FCR	990 $\times$ g	2910 $\times$ g
Capacity	See available rotors	See available rotors
Weight	1.1 Kg	1.1 Kg
Dimensions	155 $\times$ 168 $\times$ 118 mm	155 $\times$ 168 $\times$ 118 mm
Power	100-250V/50-60 Hz	100-250V/50-60 Hz
Consumption	12 W	18 W

Code	GDC002	GDC009
Model	2507/11	2507/30
Speed	10000 rpm $\pm$ 3 %	12000 rpm $\pm$ 5 %
FCR	5610 $\times$ g	8550 $\times$ g
Capacity	See available rotors	See available rotors
Weight	1.1 Kg	1.1 Kg
Dimensions	155 $\times$ 168 $\times$ 118 mm	155 $\times$ 168 $\times$ 118 mm
Power	100-250 V/50-60 Hz	100-250 V/50-60 Hz
Consumption	25 W	30 W

### CHARACTERISTICS


- Visible transparent top cover.
- Silicone rubber cushioning pad.
- Ergonomically designed and easily accessible swivel buckle.
- Compact size.



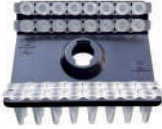
## COMPATIBLE ACCESSORIES

## ANGLE ROTORS


INCLUDING




Angle rotor | GDF007  
1.5/2 mL×8  
4000 rpm/990 ×g  
7000 rpm/2910 ×g  
10000 rpm/5610 ×g



Angle rotor | GDF010  
0.2 mL×8×4  
4000 rpm/536 ×g  
7000 rpm/1643 ×g  
10000 rpm/3354 ×g



Angle rotor | GDF013  
1.5 mL×6+0.5 mL×6+0.2 mL×8×2  
4000 rpm/912 ×g  
7000 rpm/2793 ×g  
10000/5701 ×g



Microflashing rotor | GDF005\*  
20 ul×12  
12000 rpm y 8371 ×g  
Capillary length 40 mm  
\*For use with reference GDC009 only

## ACCESSORIES

INCLUDING



Adapter | GDF001  
0.2 mL tubes



Adapter | GDF002  
0.5 mL tubes



Microhematocrit capillaries reading card |  
GDF018\*  
\*Included in reference GDC009

## COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Included
<b>GDC008, GDC001 and GDC002</b>				
GDF007	Rotor 8 microtubes 1.5/2 mL, Fugevet+	PP round/conical bottom with lid	Centrifuge	Yes
GDF010	PCR rotor, 4 x 8 x 0.2 mL strips	PP conical-bottom PCR tube with cap	Centrifuge	Yes
GDF013	Rotor 6x1,5 mL + 6x0,5 mL + 2 PCR strips 8x0,2 mL	PP round/conical bottom with lid	Centrifuge	Yes
GDF002	Microtube adaptor 0.5 mL, series 2507	PP conical bottom with lid	GDF007	Yes
GDF001	Microtube adapter 0.2 mL, series 2507	PP conical bottom with lid	GDF007	Yes
<b>GDC009</b>				
GDF007	Rotor 8 microtubes 1.5/2 mL, Fugevet+, Fugevet+	PP round/conical bottom with lid	Centrifuge	Yes
GDF010	PCR rotor, 4 x 8 x 0.2 mL strips	PP conical-bottom PCR tube with cap	Centrifuge	Yes
GDF013	Rotor 6x1,5 mL + 6x0,5 mL + 2 PCR strips 8x0,2 mL	PP round/conical bottom with lid	Centrifuge	Yes
GDF005	Micro haematocrit rotor	Capillary tube Ø 1,5 mm × L40 mm	Centrifuge	Yes
GDF002	Microtube adapter 0.5 mL, series 2507	PP conical bottom with lid	GDF007	Yes
GDF001	Microtube adapter 0.2 mL, series 2507	PP conical bottom with lid	GDF007	Yes
GDF018	Capillary reading micro haematocrit		GDF005	Yes

## 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 of 8×0,2 mL	BGN006
Capillaries haematocrit	ZMB048

# GDC003 and GDC004

## Mini centrifuges, three speeds

The Mini Three Speed Centrifuges are modern in design and advanced in manufacturing technology, with smooth and beautiful appearance, compact and stable structure, high versatility and easy operation. The ability to choose any of the 3 speeds 4000/7000/10000 rpm, gives the greatest possible versatility to a single centrifuge for personal use.

The GDC004 model with 12 V DC power supply allows it to be used in locations where mains power is not available, making it the ideal centrifuge for mobile applications outside the laboratory.

Suitable for microtube filtration, HPLC sample preparation, rapid centrifugation, microscale blood cell separation, microbial sample processing and partitioning in PCR experiments. It can prevent liquid from sticking to the tube wall.

These Nahita mini centrifuges are small, quiet, very stable and easy to use. They offer smooth and quiet operation even at high speeds. The lid design allows easy opening by pressing the open button without compromising safety: the rotor will stop automatically when the lid is opened. They are the ideal centrifuges for small samples that need to be centrifuged.

### TECHNICAL SPECIFICATIONS

Code	GDC003			GDC004		
Model	2507/15			2507/25		
Speed	4000 rpm	7000 rpm	10000 rpm	4000 rpm	7000 rpm	10000 rpm
FCR	990 ×g	2910 ×g	5610 ×g	990 ×g	2910 ×g	5610 ×g
Capacity	See rotor capacity			See rotor capacity		
Dimensions	155×168×118 mm			155×168×118 mm		
Weight	1.1 Kg			1.1 Kg		
Feeding	100-250V/50-60 Hz			12 V - Car cigarette lighter socket		
Consumption	25 W			25 W		

### PRODUCT BENEFITS

- Simple rotor change.
- The high-strength materials of the host and rotating rotor can resist various kinds of chemical corrosion, and the rotating rotor has a high-temperature disinfection function.
- Adopting high efficiency DC induction motor and RSS material for shock absorption, the operation is more stable, with 360° arc rotation space, no angle included, small wind resistance, low temperature rise, ultra-quiet and the total noise is ≤ 43dB.
- Faster acceleration/deceleration rate needed to complete the experiment in a given time shorter, accelerating to more than 95% of rated speed in 3 seconds. There are two easier ways to use to slow down: press the lid open button to stop freely (≤ 15 sec onds), and fully open the lid to brake and slow down (≤ 3 seconds).

### CHARACTERISTICS


- Visible transparent top cover.
- Silicone rubber cushioning pad.
- Ergonomically designed and easily accessible swivel buckle.
- Compact size.



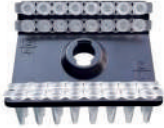
## COMPATIBLE ACCESSORIES

### ANGLE ROTORS


INCLUDING



Angle rotor | GDF007  
1.5/2 mL×8  
4000 rpm/990 ×g  
7000 rpm/2910 ×g  
10000 rpm/5610 ×g



Angle rotor | GDF010  
0.2 mL×8×4  
4000 rpm/536 ×g  
7000 rpm/1643 ×g  
10000 rpm/3354 ×g



Angle rotor : GDF013  
1.5 mL×6+0.5 mL×6+0.2  
mL×8×2  
4000 rpm/912 ×g  
7000 rpm/2793 ×g  
10000/5701×g

### ACCESSORIES

INCLUDING



Adapter : GDF001  
0.2 mL tubes



Adapter : GDF002  
0.5 mL tubes

## COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Included
<b>GDC003 and GDC004</b>				
GDF007	Rotor 8 microtubes 1.5/2 mL, Fugevet+	PP round/conical bottom with lid	Centrifuge	Yes
GDF010	PCR rotor, 4 x 8 x 0.2 mL strips	PP conical-bottom PCR tube with cap	Centrifuge	Yes
GDF013	Rotor 6x1,5 mL + 6x0,5 mL + 2 PCR strips 8x0,2 mL	PP round/conical bottom with lid	Centrifuge	Yes
GDF002	Microtube adapter 0.5 mL, series 2507	PP conical bottom with lid	GDF007	Yes
GDF001	Microtube adapter 0.2 mL, series 2507	PP conical bottom with lid	GDF007	Yes

## 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 of 8×0,2 mL	BGN006

# GDC005

## Fugevet+ mini centrifuge, three speeds

Mini centrifuge with modern design and advanced technology. Aesthetic design and compact structure.

Versatile, three speeds in one, 4-7-12.000 rpm and different interchangeable rotors for 1,5/ 2mL microtubes, 0,5 mL microtubes, PCR tube strips of 8 tubes of 0,2 mL as well as haematocrits.

Easy to use and with “soft start” and “soft stop” functions. Design prevents droplets from sticking to the tube walls.

Suitable for use with microfiltration tubes, rapid centrifugation, micro blood cell separation, bacterial pellet processing and partition centrifugation in PCR techniques.

It is the ideal centrifuge, for personal use, always ready to centrifuge small samples, when needed.

### TECHNICAL SPECIFICATIONS

Code	GDC005
Model	Fugevet+
Speed	4000 rpm / 7000 rpm / 12000 rpm
FCR	990 ×g / 2910 ×g / 5610 ×g
Capacity	See rotor capacity
Dimensions	155×168×118 mm
Weight	1.1 Kg
Feeding	100-250 V/50-60 Hz
Consumption	25 W

### PRODUCT BENEFITS

- Simple rotor change.
- The high-strength materials of the centrifuge and the rotating rotor can resist various kinds of chemical corrosion, and the rotating rotor has a high-temperature disinfection function.
- Adopting high efficiency DC permanent magnet motor and RSS material for shock absorption, the operation is more stable, with 360° arc rotation space, no angle included, small wind resistance, low temperature rise, ultra-quiet, and the total noise is  $\leq 43$ dB.
- Faster acceleration/deceleration rate, needed to complete the experiment in a shorter time, accelerating to more than 95% of nominal speed in 3 seconds. There are two easier ways to use to slow down: press the lid open button to stop freely ( $\leq 15$  sec onds), and fully open the lid to bstop freely (rake and slow  $\leq 15$  s down (ec  $\leq 3$  seconds).





### CHARACTERISTICS

- Visible transparent top cover.
- Silicone rubber cushioning pad.
- Ergonomically designed and easy to access swivel buckle.
- Compact size.



## COMPATIBLE ACCESSORIES

## ANGLE ROTORS

INCLUDING				
				
Angle rotor : GDF007 1.5/2 mL×8 4000 rpm/990 ×g 7000 rpm/2910 ×g 12000 rpm/5610 ×g	Angle rotor   GDF010 0.2 mL×8×4 4000 rpm/536 ×g 7000 rpm/1643 ×g 12000 rpm/3354 ×g	Angle rotor   GDF013 1.5 mL×6+0.5 mL×6+ 0.2 mL×8×2 4000 rpm/912 ×g 7000 rpm/2793 ×g 12000/5701 ×g	Microflashing rotor : GDF005 20 ul×12 12000 rpm y 8371 ×g Capillary length 40 mm	Angle rotor   GDF006 4 criotubes x 5 mL 7000 rpm / 3180 ×g

## ACCESSORIES

INCLUDING			
			
Adapter : GDF001 0.2 mL tubes	Adapter : GDF002 0.5 mL tubes	Micro haematocrit reader : GDF018	Adapter : GDF009 Cryotubes 1.8 mL

## COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
<b>GDC005</b>				
GDF007	Rotor 8 microtubes 1.5/2 mL, Fugevet+	PP round/conical bottom with lid	Centrifuge	Yes
GDF010	PCR rotor, 4 x 8 x 0.2 mL strips	PP conical-bottom PCR tube with cap	Centrifuge	Yes
GDF013	Rotor 6x1,5 mL + 6x0,5 mL + 2 PCR strips 8x0,2 mL	PP round/conical bottom with lid	Centrifuge	Yes
GDF005	Micro haematocrit rotor	Capillary tube Ø 1,5 mm × L40 mm	Centrifuge	Yes
GDF006	Rotor 4 cryotubes 5 mL	Cryotubes 5 mL	Centrifuge	Yes
GDF002	Microtube adapter 0.5 mL, series 2507	PP conical bottom with lid	GDF007	Yes
GDF001	Microtube adapter 0.2 mL, series 2507	PP conical bottom with lid	GDF007	Yes
GDF009	Cryotube adapter 1.8 mL	Cryotube 1.8 mL	GDF006	Yes
GDF018	Microhaematocrit reader	-	GDF005	Yes

## 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 of 8×0,2 mL	BGN006
Capillaries haematocrit	ZMB048

# GDC006

## MiniFuge-GD06 Centrifuge, variable speed

The mini centrifuge adopts international advanced design concepts and manufacturing technology, with smooth and attractive appearance, compact and stable structure, adhering to the advantages of high versatility and easy operation. It also has the functional features of “soft

start” and “soft braking”. This mini centrifuge is very suitable for the filtration of microtubes and rapid centrifugation, blood cell separation, microbial sample processing, PCR experiment centrifugation. It is the first choice for small batch centrifugation sample processing.

### TECHNICAL SPECIFICATIONS

Code	GDC006
Model	GD06
Speed	500~12000 rpm $\pm$ 9% (500 rpm increment)
FCR	9660 $\times$ g
Timer	1-8 minutes / 1-59 seconds
Capacity	See rotor capacity
Weight	1.6 Kg
Dimensions	194 $\times$ 229 $\times$ 120 mm
Feeding	100-250 V / 50-60 Hz
Consumption	60 W

### PRODUCT BENEFITS

- It adopts advanced and reliable PI scheme of full-range high-frequency power control, is in line with the world's power grid power supplies. Through the regulation 16-bit PWM speed control MCU operation, it can more accurately control the voltage, current, speed and effective centrifugal time, ensuring that it can prolong the service life and electromagnetic noise of the motor in severe use environments.
- A reliable and durable DC induction motor with a wider speed range of 500-12000rpm and an accuracy of  $\pm$ 9%.
- Step-by-step spin speed adjustment up to 500rpm, with an effective spin time range of 1-8 minutes or 1-59 seconds.
- Faster acceleration/deceleration rate needed to complete the experiment in less time.
- The high-strength materials of the equipment and the rotating rotor can resist chemical corrosion and the autoclavable rotating rotor.

### CHARACTERISTICS

- Reduced size.
- Ergonomically designed lid and intuitive opening.
- Visible transparent top cover.
- Compact size.



## COMPATIBLE ACCESSORIES

## ANGULAR ROTORS

INCLUDING				
				
PCR rotor : GDF008 1.5/2 mL×12+0.2 mL×8×4 12000 rpm/9500 ×g	PCR rotor : GDF012 0.2 mL×12×4 12000 rpm/5960 ×g	Angle rotor : GDF011 5 mL×4 12000 rpm/9660 ×g	Rotor 4 cryotubes   GDF006 5/1.8/1.1 mL×4 7000 rpm/3180 ×g	Microhematronic rotor   GDF005 20 ul×12 12000 rpm y 8371 ×g Capillary length 40 mm

## ACCESSORIES

INCLUDING			
			
Adapter : GDF001 0,2 mL tubes	Adapter : GDF002 0,5 mL tubes	Adapter : GDF017 1.1/1.8 mL	Microhematocrit capillaries reading card   GDF018*

## COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
<b>GDC006</b>				
GDF008	PCR rotor, 12x1,5/2 mL + 32x0,2 mL	PP round/conical bottom with lid	Centrifuge	Yes
GDF012	PCR rotor, 4 x 12 x 0.2 mL strips	PP conical bottom with lid	Centrifuge	Yes
GDF011	Angle rotor 4 x 5 mL	PP conical bottom with lid	Centrifuge	Yes
GDF006	Rotor 4 cryotubes 5 mL	PP threaded standpipe	Centrifuge	Yes
GDF005	Micro haematocrit rotor	Capillary tube Ø 1,5 mm × L40 mm	Centrifuge	Yes
GDF002	Microtube adapter 0.5 mL, series 2507	PP conical bottom with lid	GDF008	Yes
GDF001	Microtube adapter 0.2 mL, series 2507	PP conical bottom with lid	GDF008	Yes
GDF017	Adapter for 1.1/1.8mL tubes	PP threaded standpipe	GDF006	Yes
GDF018	Capillary reading micro haematocrit	-	GDF005	Yes

## 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
8×0.2 mL microtube strip	BGN006
5 mL Eppendorf type tube	BGN029
Capillaries haematocrit	ZMB048

# GDC011

## Microplate centrifuge

The microplate centrifuge P-X is specially designed to centrifuge standard microplates with and without skirt quickly and efficiently.

Its modern and functional design with smooth lines and a compact and stable structure is specifically optimised for this purpose.

Highly versatile and easy to use, it incorporates “soft start” and “soft stop” functions to avoid disturbances on the plate.

Designed for 96- or 384-well microplates as well as PCR tube strips, with an adapter included.

### TECHNICAL SPECIFICATIONS

Code	GDC011
Model	P-X
Speed	300~3000±15 rpm
FCR	608 ×g
Timer	1-99 minutes/1-59 seconds
Capacity	2× 96-well microplate/ ELISA plates
Weight	3.9 Kg
Dimensions	225×255×215 mm
Feeding	DC24 V/2.75 A
Consumption	55 W

### PRODUCT BENEFITS

- The microplate centrifuge adopts advanced design concepts, with a compact and stable appearance and structure, adhering to the advantages of high universality and easy operation. It features slow start-up and braking.
- Designed for two small capacity 96-well or 384-well microplates, as well as for standard PCR microplates with or without skirts.
- Full-segment LCD liquid crystal display. Quiet and stable operation. Transparent top cover.
- Instant centrifuge function reaching maximum speed in 6 seconds.
- Overspeed and unbalance detection system, capable of real time monitoring of the process ensuring safe operation of the instrument.

### CHARACTERISTICS

- Lid cover protection.
- Transparent and visible lid cover.
- Quiet and stable operation.
- Full-segment LCD liquid crystal display.
- Lid release button.
- Instant centrifugation without delay.
- Stable airframe structure.



## COMPATIBLE ACCESSORIES

### ADAPTERS

INCLUDING



Adapter PCR8 | GDF019

## COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
<b>GDC011</b>				
GDF019	Adapter PCR8 for centrifuge GDC011	Microtube strip 8 x 0.2 mL	Centrifuge	Yes

### SEALING FILM FOR PLATES

Code	BRD011	BRD012	BRD013
<b>Sealed</b>	Pressure-sensitive	Self-adhesive	Pressure-sensitive
<b>Dimensions</b>	116.5 mm x 77 mm.	116.5 mm x 80 mm.	116.5 mm x 80 mm.
<b>Material</b>	PP	PET	PP
<b>Temperature range</b>	-70°C a 110°C	-20°C a 100°C	-70°C a 110°C

## RECOMMENDED PLATES

96-well plate	BGN039, BGN040, BGN041, BGN042, BGN043, BGN044, BGN045, BGN046, BGN047
Microtube strip 8 x 0,2 mL	BGN006

# GLC001

## Medibas+ Low Speed Centrifuge

The Medibas+ low-speed, high-capacity centrifuge up to 400 ml combines powerful functions, high versatility as it can use swing out or angular rotors for the most commonly used tubes in hospitals and is easy to operate. It adopts the latest control technology and has reliable quality and superior performance. It is widely used in clinical biochemistry, haematology, immunology, clinical research and molecular biology, as well as routine analysis in industrial laboratories. Recommended for genetic studies (nucleic acids), proteins

and PCR products, and any low-speed application that does not require refrigeration.

Supplied with swing-out rotor, suitable for different optional tube holders (4x100 mL, 4x50 mL, 8x50mL, 16x10/15 mL, 24x5 mL). In addition, angular rotors (12x15 mL, 8x50 mL) and rotor for microplates can be installed.

### TECHNICAL SPECIFICATIONS

Code	GLC001
Model	2741
Speed	100~6000rpm
FCR	5150 ×g ( 10 ×g increment)
Timer	1-99 hours/1-59 minutes/1-59 seconds. Accuracy ± 1 second
Capacity	400 mL
Weight	30 Kg
Dimensions	390×500×320 mm
Power	220 V/50-60 Hz
Consumption	350 W
Memory	30 customised programmes
Acceleration ramps	1-9
Braking ramps	0-9

### PRODUCT BENEFITS

- Housing and base in steel and inner bowl in stainless steel.
- Metal base cover with suspension mechanism and peephole.
- Digital microprocessor control, LCD display and single control selector.
- Autoclavable swing out rotor included and autoclavable tube holders included for the use of different tubes.
- 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.
- Motor controlled by an advanced and reliable sine wave vector FOC system that can precisely control speed, time and relative centrifugal force (RCF).
- Forced ventilation cooling and excellent air heat exchange technology can significantly and effectively reduce the temperature rise of the rotor and ensure that the sample is not damaged.

### RECOMMENDED TUBES

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

### CHARACTERISTICS

- Electrically controlled double airlocks.
- Corrosion resistant Teflon coating on the inside.
- Rubber gasket to ensure airtight seal.
- Flash Centrifugation.



COMPATIBLE ACCESSORIES

SWING OUT ROTORS

INCLUDING



Swing out rotor | GLK014  
5000 rpm/3040 ×g

INCLUDING



Tube holder | GNP003  
100 mL×4  
5000 rpm/4108 ×g



Tube holder | GNP004  
50 mL×4  
5000 rpm/4135 ×g

INCLUDING



Tube holder | GNP005  
50 mL×8  
4000 rpm/2720 ×g

INCLUDING



Tube holder | GLK002  
10/15 mL×16  
4000 rpm/2790 ×g



Tube holder | GLK005  
5 mL×24  
4000 rpm/2540 ×g

OTHER ROTORS



Angle rotor | GLK006  
15 mL×12  
6000 rpm/5150 ×g




Angle rotor | GLK007  
50 mL×8  
5000 rpm/3435 ×g



Microplate rotor | GNP017  
4 Microplates×2×96  
2 Deep well plates×2×96  
4000 rpm/2860 ×g

ADAPTERS AND BOTTOM PADS

INCLUDING



Bottom pad | GLK009  
3 mL



Adapter | GLK010  
5 mL



Adapter | GLK011  
8 mL



Bottom pad | GLK012  
15 mL



Bottom pad | GLK013  
50 mL

COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
<b>GLC001</b>				
GLK014	Standard oscillating rotor		Centrifuge	Yes
GNP003	Tube Carrier Set 4x100 mL	PP round bottom with lid	GLK014	Yes
GNP004	Tube holder set 4x50 mL	PP round / conical bottom with lid	GLK014	No
GNP005	Tube holder set 8x50 mL	PP round / conical bottom with lid	GLK014	Yes
GLK002	Carrier Set 16x15 mL	PP round / conical bottom with lid	GLK014	Yes
GLK005	Tube holder for 24 x 5 mL tubes	Vacutainer type 13 × 100 mm	GLK014	No
GNP017	Rotor 8 microplates	4 Microplates×2×96/2 Deep well plates×2×96	Centrifuge	No
GLK006	Angled rotor for 12 x 15 mL tubes	PP round / conical bottom with lid	Centrifuge	No
GLK007	GLK007Corner rotor for 8 x 50 mL tubes	PP round / conical bottom with lid	Centrifuge	No
GLK009	Bottom pad for 3 mL tubes	Vacutainer type 13 × 75 mm	GLK005	Yes*
GLK010	Adapter for 5 mL tubes	Vacutainer type 13 × 100 mm	GLK002/GLK006	No
GLK011	Adapter for 8 mL tubes	Vacutainer type 16 × 100 mm	GLK002/GLK006	No
GLK012	Bottom pad for 15 mL tubes	PP conical bottom with lid	GLK002/GLK006	No
GLK013	Bottom pad for 50 mL tubes	PP conical bottom with lid	GNP004/GNP005	No

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

# GLC003

## High-speed centrifuge

The high-speed, high-capacity centrifuge combines versatility and easy handling, especially dedicated to microtubes and PCR strips, it also allows centrifuging tubes up to 100 mL. Maximum versatility of use for a wider range of applications.

It adopts innovative control technology, reliable quality and superior performance and is widely used in clinical medical biochemistry,

haematology, immunology, clinical research, molecular biology research and routine analysis in industrial laboratories.

It is most suitable in genetic, protein and clinical experimental research, and various applications with different volumes that do not need refrigeration.

### TECHNICAL SPECIFICATIONS

Code	GLC003
Model	2811
Speed	200~18000 rpm (10 rpm increment)
FCR	24100 ×g (increment of 10 ×g)
Timer	1-99 hours/1-59 minutes/1-59 seconds. Three modes available. Accuracy ± 1 second
Max. Capacity.	400 mL
Weight	35 Kg
Dimensions	500 × 390 × 330 mm
Feeding	AC220 V / 50-60 Hz
Consumption	500 W
Memory	10 customised programmes (5 external buttons for quick access)
Acceleration ramps	1-9
Braking ramps	0-9

### PRODUCT BENEFITS

- 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.
- Metal base cover with suspension mechanism and peephole.
- Digital microprocessor control, backlit LCD display and single control selector.
- 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).
- Automatic rotor detection.
- The external USB2.0 interface makes it easy to update the system and download experimental data.



### CHARACTERISTICS

- Electrically controlled double airlocks.
- Integrated sealing gasket.
- 5-inch IPS LCD screen.
- Teflon-coated centrifuge chamber. Air-cooled technology.
- Stable housing structure. Flash Centrifugation.
- Forced ventilation cooling and excellent air heat exchange technology can significantly and effectively reduce the temperature rise of the rotor and ensure that the sample is not damaged.

COMPATIBLE ACCESSORIES

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  
10/15 mL×12  
13000 rpm/15315 ×g



Angle rotor | GLK021  
1.5/2 mL×12  
18000 rpm/22530 ×g



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

ACCESSORIES

INCLUDED WITH GLK016, GLK042, GLK021 ROTORS



Adapter | GDF001  
0,2 mL tubes



Adapter | GDF002  
0,5 mL tubes



Adapter | GDF014  
15 mL



Bottom pad | GDF015  
50 mL

COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
<b>GLC003</b>				
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 PCR tube with cap	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
GLK021	Angle rotor for 12 x 1.5/2 mL micro tubes	PP round/conical bottom with lid	Centrifuge	No
GDF001	Microtube adapter 0.2 mL, series 2507	PP conical bottom with lid	GLK016/GLK021/GLK042	Yes*
GDF002	Microtube adapter 0.5 mL, series 2507	PP conical bottom with lid	GLK016/GLK021/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
GLK042	Angle rotor for 36 x 1.5/2 mL microtubes	PP round/conical bottom with lid	Centrifuge	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
5 mL microtubes	BGN029
8×0.2 mL microtube strip	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

# GLC004

## Fugelab-GB10 Digital Angle Centrifuge

The Fugelab-GB10 Centrifuge is a technological breakthrough designed to optimise the centrifugation process and deliver results. precise and efficient. With a unique combination of features and

capabilities, this centrifuge becomes an essential tool for researchers and professionals looking for reliable and fast separation in a variety of applications.

### TECHNICAL SPECIFICATIONS

Code	GLC004
Model	Fugelab-GB10
Speed	100~4000 rpm (10 rpm increment)
FCR	2250 ×g (10 ×g increment)
Timer	1-99 minutes
Max. Capacity	240 mL
Weight	16 Kg
Dimensions	485×375×290 mm
Feeding	220 VAC, 50/60 Hz
Consumption	110 W

### PRODUCT BENEFITS

Microprocessor-controlled benchtop centrifuge equipped with maintenance-free induction motor, for centrifugation of a wide range of tubes from 5 mL to 15 mL (Consult adapters). With digital programming via LED display and simple, user-friendly keypad, the unit can be programmed in RPM or FCR and has a memory of the last centrifugation programme.

It has a wide metal base and sturdy legs for a good fixation to the work surface, which allows it to carry out the centrifugation programmes in a totally stable and silent way. Suitable for routine laboratory techniques such as concentration of cell suspensions, separation of serum or plasma, etc.

Short Spin function. Memory of last programme executed.

### CHARACTERISTICS

- Housing and cover both with metal base.
- Plastic rotor and tube holder.
- Programming in RPM or FCR.
- Memory of the last programme carried out.
- Short Spin function.
- Final audible warning and automatic lid opening.
- Emergency opening system in case of power failure.
- Double security system in the lid with electromagnetic and mechanical locking.
- Maintenance-free induction motor.



## COMPATIBLE ACCESSORIES

### ROTORS

INCLUDING



Angle rotor | GBK016  
12×15 mL  
4000 rmp / 2250 ×g



Angle rotor | GBK021  
18×10 mL  
4000 rmp / 2250 ×g



Angle rotor | GBK022  
24×5/10 mL  
4000 rmp / 2250 ×g

### ACCESSORIES



Adapter | GBK002  
13×100 mm tubes



Adapter | GBK003  
13×75 mm tubes

Tube holder | GBK019

## COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
GLC004				
GBK002	Adapter for 13×100 mm tubes	Vacutainer type tubes 13×100 mm	GBK016	No
GBK003	Adapter for 13×75 mm tubes	Vacutainer type tubes 13×75 mm	GBK016	No
GBK019	Centrifuge tube holder Fugelab - GB10	Falcon type tubes 15mL	GBK016	Yes

## RECOMMENDED TUBES

Falcon tubes 15 mL

BGD010, BGD082, BGD083, BGD084, BGD024, BGD025, BGD039, BGD029, BGD030, BGD031, BGD032, BGD033

# GLC005

## High-speed centrifuge

Benchtop high-speed centrifuge with angled rotors for microtubes (up to 5 mL).

High-speed benchtop microcentrifuge with robust and widely used functionality that is easy to use. It uses the latest control technology, ensuring high performance and reliability. It is widely used in medical laboratories, industrial laboratories, biochemical and molecular biology research.

Specific applications for this high-speed centrifuge include micro-scale separation of biological cells and particles, biomolecules, clinical samples and research where a refrigerated centrifuge is not required. It has a specific rotor to determine micro haematocrit.

### TECHNICAL SPECIFICATIONS

Code	GLC005
Model	2624/2
Speed	100~15000 rpm (10 rpm increment)
FCR	21180 ×g (Increase of 10 ×g)
Timer	1-99 minutes/1-59 seconds. Two modes available. Accuracy ± 1 second
Max. Capacity	50 mL
Weight	17 Kg
Dimensions	280×360×250 mm
Feeding	AC220 V / 50 Hz
Consumption	450 W
Memory	30 customised programmes
Acceleration ramps	1-9
Braking ramps	0-9

### PRODUCT BENEFITS

- Brushless, maintenance-free, variable frequency induction motor with a speed range of 100-15000rpm and an accuracy of ± 20rpm.
- The high-strength materials of the centrifuge and the centrifuge rotor can resist various chemical corrosions.
- A single large digital LCD display with clear and crisp operating parameters. A separate speed/RCF parameter setting button and mutual conversion facilitate quick adjustment and real-time display of the relative centrifugal force during operation.
- The one-button rotary control allows for quick parameter changes.
- When the operation is completed, errors or unbalances occur, an acoustic signal is emitted and the operation is stopped at the same time. The display shows an error code.
- A layer of insulation is installed outside the centrifuge chamber to fully absorb noise, reduce vibration and provide a sense of tranquillity for the experimental staff.
- Automatic recognition and detection of rotating rotor imbalance to ensure centrifugation safety.
- Teflon-coated stainless steel chamber, robust construction, suitable for continuous use.
- 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).
- Forced ventilation cooling and excellent air heat exchange technology significantly reduce the temperature rise of the rotor.

### CHARACTERISTICS

- Teflon-coated inner chamber.
- Compact size.
- Stable housing structure.
- Flash Centrifugation.



## COMPATIBLE ACCESSORIES

## ANGLE ROTORS



Angle rotor | GLK027  
1.5/2 mL×24  
15000 rpm/21180 ×g



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



Angle rotor | GLK018  
5 mL×10  
13500 rpm/12920 ×g



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



Angle rotor | GLK029  
0.5 mL×36  
13500 rpm/13250 ×g

## ACCESSORIES

INCLUDED WITH ROTOR  
GLK027



Adapter | GDF001  
0,2 mL tubes



Adapter | GDF002  
0,5 mL tubes

Microhaematocrit capillaries reading card |  
GLL001

Used with the GLK017 microhaematocrit rotor in the  
GLC005 and GLF002 centrifuges

## COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
<b>GLC005</b>				
GLK027	Angle rotor for 24 x 1.5/2 mL tubes	PP round/conical bottom with lid	Centrifuge	No
GLK017	Angle rotor for 24 micro haematocrit capillaries	Capillary y ø 1.5 mm × L75 mm	Centrifuge	No
GLK018	Angle rotor for 10 x 5 mL tubes	PP round bottom with lid	Centrifuge	No
GLK028	Angle rotor for 4 x 0.2 mL PCR strips	PP conical-bottom PCR tube with cap	Centrifuge	No
GLK029	Angle rotor for 36 x 0.5 mL 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

0,2 mL microtubes	BGN003, BGN026
0,5 mL microtubes	BGN004
2 mL microtubes	BGN025
1,5 mL microtubes	BGN005, BGN011, BGN012, BGN013, BGN014, BGN015, BGN027
5 mL microtubes	BGN029
Microtube strip of 8×0.2 mL	BGN006

# GLC006

## Low-speed centrifuge

The low speed, high capacity centrifuge GLC006 combines powerful functions, high versatility, being able to use both angular and swing out rotors, with a maximum capacity of up to 450 mL (30x15 mL), being specially designed to use 15 and 50 mL tubes.

It is easy to operate and incorporates the latest control technology, proven quality and superior performance.

It is 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 not critical.

### TECHNICAL SPECIFICATIONS

Code	GLC006
Model	2831
Speed	100~6000 rpm (10 rpm increment)
FCR	5350 ×g (Increase of 10 ×g)
Timer	1-99 hours/1-59 minutes/1-59 seconds. Accuracy ± 1 second
Max. Capacity	450 mL (15mLX30)
Weight	26 Kg
Dimensions	450x365x315 mm
Feeding	AC220 V / 50 Hz
Consumption	350 W

### PRODUCT BENEFITS

- Automatic rotor recognition.
- Detection of imbalance.
- Speed setting in rpm or FCR.
- Maintenance-free, brushless DC variable frequency motor with a speed range of 100- 6000rpm and an accuracy of ± 20rpm.
- The motor is controlled by an advanced and reliable sine wave vector FOC system that can precisely control speed, time and relative centrifugal force.
- The high quality materials of the centrifuge and the rotors can resist chemical corrosion caused by different substances. Autoclavable rotors.
- It can store 30 customised programmes.
- With multiple acceleration and braking ramps to meet different experimental requirements.
- Safety system in case of speeding.

### CHARACTERISTICS

- LCD display with glossy black background and white lettering.
- The rotary knob on the control panel allows you to change parameter values quickly.
- FLASH key for short cycles.
- Electrically controlled double locking lid.
- Cooling by forced ventilation.



## SWING OUT ROTORS

INCLUDING


 Swing out rotor | GLH013  
4000 rpm/2736 ×g

 Tube holder | GLK043  
100m L×4  
4000 rpm/2720 ×g

 Tube holder | GLK044  
50 mL×4  
4000 rpm/2665 ×g

 Tube holder | GLK045  
15 mL×8  
4000 rpm/2736 ×g

## ROTORS - BOTTOM PADS


 Angle rotor | GLK041  
15 mL×12  
6000 rpm/5350 ×g

 Angle rotor | GLH014  
15 mL×24  
5000 rpm/3690 ×g

 Angle rotor | GLH015  
15 mL×30  
5000 rpm/40500 ×g

 Angle rotor | GLH016  
20 mL×12  
5000 rpm/3800 ×g

 Angle rotor | GLH017  
50 mL×6  
6000 rpm/4346 ×g

 Microplate rotor | GLH018  
2 Microplacas ×2×96  
4000 rpm/2236 ×g

 Bottom pad | GLK012  
15 mL

 Bottom pad | GLK013  
50 mL

## COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
<b>GLC006</b>				
GLH013	Swing out rotor	-	Centrifuge	Yes
GLK043	4x100 mL tube holder set	PP, round bottom with lid	GLH013	No
GLK044	Tube holder set 4x50 mL	PP, round/conical bottom with lid	GLH013	No
GLK045	Tube holder set 8x15 mL	PP, round/conical bottom with lid	GLH013	No
GLK041	Angle rotor 12x15 mL	PP, round/conical bottom with lid	Centrifuge	No
GLH014	Angle rotor 24x15 mL	PP, round/conical bottom with lid	Centrifuge	No
GLH015	Angle rotor 30x15 mL	PP, round/conical bottom with lid	Centrifuge	No
GLH016	Angle rotor 12x20 mL	PP, round bottom with lid	Centrifuge	No
GLH017	Angle rotor 6x50 mL	PP, round/conical bottom with lid	Centrifuge	No
GLH018	Microplate rotor	Two microplates x 2 x 96 wells	Centrifuge	No
GLK012	Bottom pad for 15 mL tubes	PP, conical bottom with lid	GLK045, GLK041, GLH014, GLH015	No
GLK013	Bottom pad for 50 mL tubes	PP, conical bottom with lid	GLK044, GLH017	No

## RECOMMENDED TUBES

 Falcon Type  
15 mL

 BGD010, BGD082, BGD083, BGD084, BGD024, BGD025, BGD029, BGD030, BGD031,  
BGD032, BGD033, BGD039

 Falcon Type  
50 mL

BGD011, BGD026, BGD034, BGD040, BGD072, BGD085, BGD086, BGD087

# GLF002

## High-speed refrigerated centrifuge

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.

### 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	-20°C~+40°C
Min. temp. at max. speed	0 °C
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

### PRODUCT BENEFITS

- 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, 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.

### CHARACTERISTICS

- 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.



## COMPATIBLE ACCESSORIES

## 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

## INCLUDED WITH ROTOR GLK027



Adapter | GDF001  
0,2 mL tubes



Adapter | GDF002  
0,5 mL tubes

Microhaematocrit capillaries reading card | GLL001  
Used with the GLK017 microhaematocrit rotor in the GLC005 and GLF002 centrifuges

## COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
<b>GLF002</b>				
GLK027	Angle rotor for 24 x 1.5/2 mL tubes	PP round/conical bottom with lid	Centrifuge	No
GLK017	Angle rotor for 24 micro haematocrit capillaries	Capillary and ø 1.5 mm × L75 mm	Centrifuge	No
GLK018	Angle rotor for 10 x 5 mL tubes	PP round bottom with lid	Centrifuge	No
GLK028	Angle rotor for 4 x 0.2 mL PCR strips	PP conical-bottom PCR tube with cap	Centrifuge	No
GLK029	Angle rotor for 36 x 0.5 mL 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

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

# GLF003

## High-speed refrigerated centrifuge

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.

### TECHNICAL SPECIFICATIONS

Code	GLF003
Model	2811R
Speed	200~16000 rpm (10 rpm increment)
FCR	24100 xg / (10xg 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

### PRODUCT BENEFITS

- 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 (RCF).
- External USB2.0 interface: Facilitates system upgrades and downloading of experimental data.

### CHARACTERISTICS

- 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.



## COMPATIBLE ACCESSORIES

### 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

INCLUDED WITH THE ROTORS GLK016, GLK042



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
<b>GLF003</b>				
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

# GNC001

## Multibas+ Low Speed Centrifuge

The Multibas+ 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 (32x15mL) and is 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.

Particularly suitable for research, molecular biology and routine laboratory analysis in experimental research on genetics, proteins, nucleic acids and PCR products, where temperature control is not essential.

### TECHNICAL SPECIFICATIONS

Code	GNC001
Model	2751
Speed	100~6000 rpm (10 rpm increment)
FCR	5150 ×g (10 ×g increment)
Timer	1-99 hours/1-59 minutes/1-59 seconds. Three modes available. Accuracy ± 1 second
Max. Capacity	480 mL (15 mL×32)
Weight	36 Kg
Dimensions	418 × 516 × 338 mm
Feeding	AC220 V/50-60 Hz
Consumption	450 W
Memory	10 programmes (5 external buttons for quick access)
Acceleration ramps	1-9
Braking ramps	0-9

### PRODUCT BENEFITS

- Multi-purpose centrifuge commonly used in microbiological laboratories, pharmaceuticals, universities, research centres and industry.
- Compatible with angular rotors and swing out rotors, so that the widest range of tubes can be used.
- Steel housing and base. Stainless steel inner tank and steel safety chamber between the tank and the cabinet.
- Metal base cover with suspension mechanism and peephole.
- Autoclavable swing out rotor included (ref.:GNP011) to which various autoclavable tube holders (not included) can be attached for use with different types of tubes.
- Digital microprocessor control, backlit LCD display and single control selector.
- 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).
- Forced cooling by ventilation and excellent heat exchange technology that can significantly and effectively reduce the temperature rise of the rotor. Automatically opens the lid at the end of the operation, preventing overheating of the samples and facilitating sample removal.



### CHARACTERISTICS

- Electrically controlled double automatic priming closure.
- Rubber gasket to ensure airtight seal.
- 5-inch LCD display with glossy black background and white text.
- Multiple interchangeable rotors and pipe holders.
- Teflon-coated centrifuge chamber.
- Stable and quiet operation. Flash Centrifugation.

COMPATIBLE ACCESSORIES

SWING OUT ROTORS

INCLUDING



Swing out rotor | GNP011  
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  
10/15 mL×24  
4000 rpm/3040 ×g



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



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



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

OTHER ROTORS



Angle rotor | GLK006  
15 mL×12  
6000 rpm/5150 ×g



Angle rotor | GLK007  
50 mL×8  
6000 rpm/5150 ×g



Angle rotor | GLK008  
15 mL×30  
5000 rpm/4100 ×g



Microplate rotor | GNP010  
4 Microplates×2×96  
2 Deep-well plates×2×96  
4000 rpm/2860 ×g

ADAPTERS AND BOTTOM PADS

INCLUDING



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

## COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
<b>GNC001</b>				
GNP011	Standard swivel rotor	-	Centrifuge	Yes
GNP004	4x50 mL tube holder set	PP round/conical bottom with lid	GNP011	No
GNP003	4x100 mL tube holder set	PP round bottom with lid	GNP011	No
GNP005	Tube holder set 8x50 mL	PP round/conical bottom with lid	GNP011	No
GNP006	Tube holder set 24x15 mL	Urinary sediment tube/round/tapered PP round/conical with lid	GNP011	No
GNP007	Tube holder set 32x15 mL	Urinary sediment tube/round/tapered PP round/conical with lid	GNP011	No
GNP008	Tube holder set 48 pcs 13x100 mm	Vacutainer tube 13x100mm	GNP011	No
GNP009	Tube holder set 72 pcs 13x75 mm	Release tube G	GNP011	No
GNP010	Rotor 8 microplates	4 Microplatesx2x96/2 Deep Well Platesx2x96	Centrifuge	No
GLK006	Angle rotor for 12 x 15 mL tubes	PP round/conical bottom with lid	Centrifuge	No
GLK007	Angle rotor for 8 x50 mL tubes	PP round/conical bottom with lid	Centrifuge	No
GLK008	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	GLK006	No
GLK011	Adapter for 8 mL tubes	Vacutainer tube 16x100 mm	GLK006	No
GLK012	Bottom pad for 15 mL tubes	PP conical bottom with lid	GNP006 GNP007 GLK006	No
GLK013	Bottom pad for 50 mL tubes	PP conical bottom with lid	GNP004 GNP005 GLK007	No
GLK015	Adapter for 15 mL tubes	PP conical bottom with lid	GLK007	No

## RECOMMENDED TUBES

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
100 mL tubes	GLK001

# GNC002 and GNC003

## HiCap+ Low Speed Centrifuge

This low-speed centrifuge is commonly used for the separation of bacteria and viruses, the separation of nucleic acids,

density gradient centrifugation, blood separation and clinical sample processing.

### TECHNICAL SPECIFICATIONS

Code	GNC002	GNC003
Model	2761	2761
Speed	200~6000 rpm (10rpm increment)	200~6000 rpm (10 rpm increment)
FCR	5150 ×g (10 ×g increment)	5150 ×g (10 ×g increment)
Timer	1-99 hours/1-59 minutes/1-59 seconds. Three modes available. Accuracy ± 1 second	1-99 hours/1-59 minutes/1-59 seconds. Three modes available. Accuracy ± 1 second
Max. Capacity	1000 mL	2000 mL
Weight	53 Kg	53 Kg
Dimensions	450 × 550 × 340 mm	450 × 550 × 340 mm
Feeding	AC220 V / 50-60 Hz	AC220 V / 50-60 Hz
Consumption	650 W	650 W
Memory	10 programmes (5 external buttons for quick access)	10 programmes (5 external buttons for quick access)
Acceleration ramps	1-9	1-9
Braking ramps	0-9	0-9

### PRODUCT BENEFITS

- High-capacity, low-speed, multi-purpose centrifuge commonly used in microbiological laboratories, pharmaceuticals, universities, research centres and industry.
- Compatible with angular rotors and swing out rotors, so that the widest range of tubes can be used.
- Automatic detection of the positioned rotor and automatic stop in case of sample imbalance.
- Equipped with experimental parameter recording function and real-time display of operation recording.
- Lid locking by electric suction at two points for greater safety.
- Flash push button for instant centrifuging. Equipped with slow start function.
- With USB port for system update and download of experimental data.
- 5-inch LCD colour display with adjustable brightness and 1024x600dpi resolution
- Wide selection of rotors and accessories (not included). Hermetically sealed vessels available for biological samples or hazardous substances.
- 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).
- Forced ventilation cooling and excellent air heat exchange technology can significantly and effectively reduce the temperature rise of the rotor and ensure that the sample is not damaged.

### CHARACTERISTICS

- Electrically controlled automatic double locking.
- Rubber gasket for chamber sealing.
- 5-inch IPS LCD colour screen.
- Five quick-access programme buttons.
- Teflon coating of the chamber.



COMPATIBLE ACCESSORIES

SWING OUT ROTORS FOR GNC002

INCLUDING



Swing out rotor | GNP019  
4000 rpm/3040 ×g



Bio-safety cup with tight fitting lid | GNP020  
250 mL×4  
4000 rpm/3040 ×g



Tube holder | GNP013  
50 mL×8+15 mL×8  
4000 rpm/3040 ×g



Tube holder | GNP021  
50 mL×8+5 mL×16  
4000 rpm/3040 ×g



Tube holder | GNP022  
15 mL×28  
4000 rpm/3040 ×g



Tube holder | GNP023  
100 mL×4  
4000 rpm/3040 ×g



Tube holder | GNP024  
5 mL×40  
4000 rpm/3040 ×g

OSCILLATING ROTORS FOR GNC003

INCLUDING



Swing out rotor | GNP025  
4000 rpm/3095 ×g



Cup | GNP026  
500 mL×4  
4000 rpm/3095 ×g



Tube holder | GNP027  
250 mL×4  
4000 rpm/3095 ×g



Tube holder | GNP028  
50 mL×16  
4000 rpm/3095 ×g



Tube holder | GNP029  
15 mL×36  
4000 rpm/3095 ×g



Tube holder | GNP030  
100 mL×12  
4000 rpm/3095 ×g



Tube holder | GNP031  
5 mL×84  
4000 rpm/3095 ×g

OTHER ROTORS FOR GNC002, GNC003



Angle rotor | GNM008  
15 mL×12  
6000 rpm/5150 ×g



Angle rotor | GNP034  
50 mL×8  
6000 rpm/5150 ×g



Microplate rotor | GNP035  
4 Microplates×2×96  
2 Deep well plates×2×96  
4000 rpm/2860 ×g



Swing out rotor | GNP032  
5 mL×64  
4000 rpm/3050 ×g

## FLAT BOTTOM PP BOTTLES



PP bottle | GNQ001  
Flat bottom 250 mL  
4000 rpm/3100 ×g  
For references GNP020  
and GNP027

PP bottle | GNQ0002  
Flat bottom 500 mL  
4000 rpm/3100 ×g  
For reference GNP026

## ADAPTERS



Adapter | GLK010  
5 mL



Adapter | GLK011  
8 mL



Adapter | GLK015  
15 mL



Bottom pad | GNQ003  
Vacutainer type 13×75 mm

## COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
<b>GNC002 and GNC003</b>				
GNP019	Swing out rotor	-	Centrifuge	Yes
GNP020	Bio-safety cup with lid 250 mLx4	PP flat bottom with lid	GNP019	No
GNP013	Tube holders 50mLx8 + 15 mLx8	PP conical bottom with lid	GNP020	No
GNP021	Tube holder 50mLx8 + 5 mLx16	PP conical bottom with lid	GNP020	No
GNP022	Tube holder for 28 x 15 mL tubes	PP conical bottom with lid	GNP020	No
GNP023	Tube holders for 4 x 100 mL tubes	PP round bottom with lid	GNP020	No
GNP024	Tube holder for 40 x 5 mL tubes	Vacutainer tube 13×100 mm	GNP020	No
GNP025	Swing out rotor	-	Centrifuge	Yes
GNP026	Cup 500 mLx4	PP flat bottom with lid	GNP025	No
GNP027	Tube holder 250 mLx4	PP flat bottom with lid	GNP026	No
GNP028	Tube holder 50 mLx16	PP conical bottom with lid	GNP026	No
GNP029	Tube holder 15 mLx36	PP round bottom with lid	GNP026	No
GNP030	Tube holder 100 mLx12	Fondo redondo de PP con tapa	GNP026	No
GNP031	Tube holder 5 mLx84	Vacutainer tube 13×100 mm	GNP026	No
GNP032	Swing out rotor for 64 x 5 mL tubes	Vacutainer tube 13×100 mm	Centrifuge	No
GNM008	Angle rotor for 12 x 15 mL tubes	PP round/conical bottom with lid	Centrifuge	No
GNP034	Angle rotor for 8 x 50 mL tubes	PP round/conical bottom with lid	Centrifuge	No
GNP035	Swing out rotor for microplates	4 Microplates×2×96/2 Deep Well Plates×2×96	Centrifuge	No
GLK010	Adapter for 5 mL tubes	Vacutainer tube 13×100 mm	GNM008	No
GLK011	Adapter for 8 mL tubes	Vacuum Blood Collection Vessel 16×100 mm	GNM008	No
GLK015	Adapter for 15 mL tubes	PP conical bottom with lid	GNP034	No
GNQ003	Bottom pad for 13x75 mm tubes	Vacutainer tube 13×75 mm	GNP032	No

## RECOMMENDED TUBES

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
Flat bottom PP bottle 250 mL	GNQ001
Flat bottom PP bottle 500 mL	GNQ002

# GNF001

## Medibas+ low speed refrigerated centrifuge

Medibas+ multi-purpose low-speed refrigerated centrifuge with high capacity up to 400 mL, which can use both angular and swing out rotors, combines functions of high power, high versatility and easy operation.

It adopts innovative control technology, reliable quality and superior performance and is widely used in clinical biochemistry, haematology,

immunology, clinical research, molecular biology research and routine analysis in industrial laboratories.

Particularly suitable for research in genetics, nucleic acids, proteins and PCR products and in applications where effective temperature control is required.

### TECHNICAL SPECIFICATIONS

Code	GNF001
Model	2741R
Speed	100~6000 rpm (10 rpm increment)
FCR	5150 ×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	65 Kg
Dimensions	634 × 548 × 335 mm
Feeding	AC220 V/50-60 Hz
Consumption	550 W
Memory	10 customised programmes (5 external buttons for quick access)
Acceleration ramps	1-9
Braking ramps	0-9

### PRODUCT BENEFITS

- Multi-purpose refrigerated 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 a 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 for use with different types of tubes.
- Digital microprocessor control, 5-inch backlit LCD display, single control selector and push-button panel.
- 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).
- The external USB2.0 interface makes it easy to update the system and download experimental data.

### CHARACTERISTICS

- Electrically controlled double automatic priming closure.
- Corrosion resistant Teflon coating on the inside.
- Integrated gas-phase adhesive sealing ring.
- High brightness black background 5 inch LCD screen.
- Automatic rotor detection.
- Flash Centrifugation. Pre-cooling function.



COMPATIBLE ACCESSORIES

SWING OUT ROTORS



Tube holder | GNP003  
100 mL×4  
5000 rpm/4108 ×g



Tube holder | GNP004  
50 mL×4  
5000 rpm/4135 ×g



Tube holder | GNP005  
50 mL×8  
4000 rpm/2720 ×g



Tube holder | GLK002  
10/15 mL×16  
4000 rpm/2790 ×g



Tube holder | GLK005  
5 mL×24  
4000 rpm/2540 ×g

OTHER ROTORS



Angle rotor | GNM002  
15 mL×12  
6000 rpm/5150 ×g



Angle rotor | GNM003  
50 mL×8  
5000 rpm/3435 ×g



Microplate rotor | GNP016  
4 Microplates×2×96  
2 Deep-well plates×2×96  
4000 rpm/2860 ×g

ADAPTERS AND BOTTOM PADS



Adapter | GLK010  
5 mL



Adapter | GLK011  
8 mL



Bottom pad | GLK012  
15 mL



Bottom pad | GLK013  
50 mL

## COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
<b>GNF001</b>				
GNM001	Swing out rotor		Centrifuge	Yes
GNP003	4 x 100 mL tube holder set	PP round bottom with lid	GNM001	No
GNP004	4x50 mL tube holder set	PP round / conical bottom with lid	GNM001	No
GNP005	Tube holder set 8 x 50 mL	PP round / conical bottom with lid	GNM001	No
GLK002	Tube holder set 16 x 15 mL	PP round / conical bottom with lid	GNM001	No
GLK005	Tube holder for 24 x 5 mL tubes	Vacutainer tube 13 × 100 mm	GNM001	No
GNP016	Rotor 8 microplates	4 Microplates×2×96/2 Deep Well Plates×2×96	Centrifuge	No
GNM002	Angle rotor for 12 x 15 mL tubes	PP round / conical bottom with lid	Centrifuge	No
GNM003	Angle rotor for 8 x 50 mL tubes	PP round / conical bottom with lid	Centrifuge	No
GLK009	Bottom pad for 3 mL tubes	Vacutainer tube 13 × 75 mm	GLK005	Yes*
GLK010	Adapter for 5 mL tubes	Vacutainer tube 13 × 100 mm	GLK002 GNM002	No
GLK011	Adapter for 8 mL tubes	Vacutainer tube 16 × 100 mm	GLK002 GNM002	No
GLK012	Bottom pad for 15 mL tubes	PP conical bottom with lid	GLK002 GNM002	No
GLK013	Bottom pad for 50 mL tubes	PP conical bottom with lid	GNP004 GNP005	No

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

## RECOMMENDED TUBES

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
100 mL tubes	GLK001

# GNF002

## Low-speed refrigerated centrifuge Multibas+

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.

### 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	AC220V/50-60 Hz
Consumption	650 W
Memory	30 customised programmes (5 external buttons for quick access)
Acceleration ramps	1-9
Braking ramps	0-9

### PRODUCT BENEFITS

- 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.

### CHARACTERISTICS

- Electrically controlled automatic double locking.
- Cover of the lid with three-layer sealed insulation.
- ECO compressor start/stop function.
- Efficient refrigeration compressor.
- Automatic rotor detection.
- Flash Centrifugation. Digital PID temperature control.



COMPATIBLE ACCESSORIES

SWING OUT ROTORS

INCLUDING



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  
4000 rpm/2860 ×g

ADAPTERS AND BOTTOM PADS

INCLUDED WITH GNP008



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

## COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
<b>GNF002</b>				
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 13×100 mm	GNM004	No
GNP009	Tube holder set 72 pcs 13x75 mm	Release tube G	GNM004	No
GNP014	Rotor 8 microplates	4 Microplates×2×96/2 Deep Well Plates×2×96	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 13×75 mm	GNP008	Yes*
GLK010	Adapter for 5 mL tubes	Vacutainer tube 13×100 mm	GNM005 GNP006 GNP007	No
GLK011	Adapter for 8 mL tubes	Vacutainer tube 16×100 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

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

# GNF003 and GNF005

## HiCap+ Low Speed Refrigerated Centrifuge

The HiCap+ high capacity, low speed refrigerated centrifuge is ideal for any application where the sample has to be kept at low temperature and high capacity is required for both analytical and preparative purposes.

Highly versatile thanks to the wide range of rotors available, whether swing out or angular, together with the possibility to use tubes from 5ml to 250 mL (or 500 mL capacity with GNF005).

Powerful functions and robust design make it particularly suitable for heavy workloads.

It is easy to operate and incorporates the latest control technology, proven quality and superior performance.

It is widely used in clinical biochemistry, haematology, immunology and clinical practice and all applications where a significant amount of centrifugation is required. Particularly suitable for research, molecular biology and routine laboratory analysis in experimental research on genetics, proteins, nucleic acids and PCR products, where temperature control is important.

### TECHNICAL SPECIFICATIONS

Code	GNF003	GNF005
Model	2761R	2761R
Speed	200~6000 rpm (10 rpm increments)	200~6000 rpm (10 rpm increments)
FCR	5150 ×g (10 ×g increment)	5150 ×g (10 ×g increment)
Timer	1-99 hours/1-59 minutes/1-59 seconds. Three modes available. Accuracy ± 1 second	1-99 hours/1-59 minutes/1-59 seconds. Three modes available. Accuracy ± 1 second
Temperature range	-20 °C~+40 °C	-20 °C~+40 °C
Min. temp. at max. speed	0 °C	0 °C
Max. Capacity	1000 mL	2000 mL
Dimensions	700×620×380 mm	700×620×380 mm
Weight	95 Kg	95 Kg
Feeding	AC220 V / 50-60 Hz	AC220 V / 50-60 Hz
Consumption	850 W	850 W
Memory	30 customised programmes (5 external buttons for quick access)	30 customised programmes (5 external buttons for quick access)
Acceleration ramps	1-9	1-9
Braking ramps	0-9	0-9

### PRODUCT BENEFITS

- High-capacity, low-speed, multi-purpose centrifuge commonly used in microbiological laboratories, pharmaceuticals, universities, research centres and industry.
- Compatible with angular rotors and swing out rotors, so that the widest range of tubes can be used.
- 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.
- Automatic detection of the positioned rotor and automatic stop in case of sample imbalance.
- Equipped with experimental parameter recording function and real-time display of operation recording.
- Lid locking by electric suction at two points for greater safety.
- With USB port for system update and download of experimental data.
- 7-inch IPS LCD colour display with adjustable brightness and 1024x600dpi resolution
- 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.

### CHARACTERISTICS

- Electrically controlled automatic double locking.
- Cover of the lid with three-layer sealed insulation.
- ECO compressor start/stop function.
- Efficient refrigeration compressor.
- Flash Centrifugation.
- PID digital temperature control.



COMPATIBLE ACCESSORIES

SWING OUT ROTORS FOR GNF003

INCLUDING



Swing out rotor | GNP019  
4000 rpm/3040 ×g



Bio-safety cup with tight fitting lid | GNP020  
250 mL×4  
4000 rpm/3040 ×g



Tube holder | GNP013  
50 mL×8+15 mL×8  
4000 rpm/3040 ×g



Tube holder | GNP021  
50 mL×8+5 mL×16  
4000 rpm/3040 ×g



Tube holder | GNP022  
15 mL×28  
4000 rpm/3040 ×g



Tube holder | GNP023  
100 mL×4  
4000 rpm/3040 ×g



Tube holder | GNP024  
5 mL×40  
4000 rpm/3040 ×g

SWING OUT ROTORS FOR GNF005

INCLUDING



Swing out rotor | GNP025  
4000 rpm/3095 ×g



Cup | GNP026  
500 mL×4  
4000 rpm/3095 ×g



Tube holder | GNP027  
250 mL×4  
4000 rpm/3095 ×g



Tube holder | GNP028  
50 mL×16  
4000 rpm/3095 ×g



Tube holder | GNP029  
15 mL×36  
4000 rpm/3095 ×g



Tube holder | GNP030  
100 mL×12  
4000 rpm/3095 ×g



Tube holder | GNP031  
5 mL×84  
4000rpm/3095 ×g

OTHER ROTORS FOR GNF003 AND GNF005




Angle rotor | GNM008  
15 mL×12  
6000 rpm/5150 ×g



Angle rotor | GNP034  
50 mL×8  
6000 rpm/5150 ×g



Microplate rotor | GNP035  
4 Microplates×2×96  
2 Deep well plates×2×96  
4000 rpm/2860 ×g



Swing out rotor | GNP032  
5 mL×64  
4000 rpm/3050 ×g

FLAT BOTTOM PP BOTTLES



PP bottle | GNQ001  
Flat Bottom 250 mL  
For references GNP020 and GNP027  
4000 rpm/3100 ×g

PP bottle | GNQ002  
Flat bottom 500 mL For  
reference GNP026  
4000 rpm/3100 ×g

ADAPTERS AND BOTTOM PADS



Adapter | GLK010  
5 mL



Adapter | GLK011  
8 mL



Adapter | GLK015  
15 mL



Bottom pad | GLQ003  
Vacutainer type 13×75 mm

COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
<b>GNF003</b>				
GNP019	Swing out rotor	-	Centrifuge	Yes
GNP020	Bio-safety cup with lid 250 mLx4	PP flat bottom with lid	GNP019	No
GNP013	Tube holder 50 mLx8 + 15 mLx8	PP conical bottom with lid	GNP020	No
GNP021	Tube holder 50 mLx8 + 5 mLx16	PP conical bottom with lid	GNP020	No
GNP022	Tube holder for 28 x 15 mL tubes	PP conical bottom with lid	GNP020	No
GNP023	Tube holder for 4 x 100 mL tubes	PP round bottom with lid	GNP020	No
GNP024	Tube holder for 40 x 5 mL tubes	Vacutainer tube 13×100 mm	GNP020	No
<b>GNF005</b>				
GNP025	Swing out rotor	-	Centrifuge	Yes
GNP026	Cup 500 mLx4	PP flat bottom with lid	GNP025	No
GNP027	Tube holder 250 mLx4	PP flat bottom with lid	GNP026	No
GNP028	Tube holder 50 mLx16	PP conical bottom with lid	GNP026	No
GNP029	Tube holder 15 mLx36	PP conical bottom with lid	GNP026	No
GNP030	Tube holder 100 mLx12	PP round bottom with lid	GNP026	No
GNP031	Tube holder 5 mLx84	Vacutainer tube 13×100 mm	GNP026	No
GNP032	Oscillating rotor for 64 x 5 mL tubes	Vacutainer tube 13×100 mm	Centrifuge	No
GNM008	Angle rotor for 12 x 15 mL tubes	PP round/conical bottom with lid	Centrifuge	No
GNP034	Angle rotor for 8 tuos of 50 mL	PP round/conical bottom with lid	Centrifuge	No
GNP035	Swing out rotor for microplates	4 Microplates×2×96/2 Deep Well Plates×2×96	Centrifuge	No
GLK010	Adapter for 5 mL tubes	Vacutainer tube 13×100 mm	GNM008	No
GLK011	Adapter for 8 mL tubes	Vacutainer tube 16×100 mm	GNM008	No
GLK015	Adapter for 15 mL tubes	PP conical bottom with lid	GNP034	No
GNQ003	Bottom pad for 13x75 mm tubes	Vacutainer tube 13×75 mm	GNP032	No

RECOMMENDED TUBES

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
Flat bottom PP bottle 250 mL	GNQ001
Flat bottom PP bottle 500 mL	GNQ002

# GNF004

## High-speed refrigerated centrifuge

High-speed refrigerated centrifuge. This high-speed (up to 18,000 rpm), high-capacity (1,000 mL) multifunctional refrigerated centrifuge can utilise a very wide range of angle and swing out rotors for maximum versatility. It is capable of separating most bacteria and viruses, nucleic acids, density gradient centrifugation, blood separation and clinical sample processing, and in any process where sample integrity must be maintained or centrifuged at constant temperature.

It is highly functional, highly versatile with low and high speed rotors and easy operability incorporating innovative control technology, reliable quality and superior performance.

Suitable for all laboratories working with thermolabile samples and especially for experimental research in genetics, protein nucleic acids and PCR products.

### TECHNICAL SPECIFICATIONS

Code	GNF004
Model	2771R
Speed	200~18000 rpm (Incremento de 10 rpm)
FCR	23470 ×g (Incremento de 10 ×g)
Timer	1-99 horas/1-59 minutos/1-59 segundos. Tres modos disponibles. Precisión ± 1 segundo
Temperature range	-20 °C~+40 °C
Temp. min. to max. speed	0 °C
Capacity Max.	1000 mL
Dimensions	560×680×376 mm
Weight	95 Kg
Feeding	AC220 V / 50-60 Hz
Consumption	850 W
Memory	30 programas personalizados (5 external buttons for quick access)
Acceleration ramps	1-9
Braking ramps	0-9

### PRODUCT BENEFITS

- High-capacity, high-speed, multi-purpose centrifuge commonly used in microbiological laboratories, pharmaceuticals, universities, research centres and industry.
- Compatible with both angular and swing out rotors, allowing the widest range of tubes to be used at both low and high speeds.
- 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.
- Automatic detection of the positioned rotor and automatic stop in case of sample imbalance.
- Equipped with experimental parameter recording function and real-time display of operation recording.
- Lid locking by electric suction for increased safety.
- 7-inch IPS LCD colour screen with adjustable brightness and 1024x600dpi resolution and with full angle of view.
- 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).
- IPS display for improved image quality and viewing angle of the screen.
- External USB 2.0 port for system update and experimental data download.

### CHARACTERISTICS

- Electrically controlled automatic double locking.
- Cover of the lid with three-layer sealed insulation.
- ECO compressor start/stop function.
- Efficient refrigeration compressor.
- Flash Centrifugation. Digital PID temperature control.



COMPATIBLE ACCESSORIES

SWING OUT ROTORS

 <p>Swing out rotor   GNP036 4500 rpm/3780 ×g</p>	 <p>Cup   GNP037 250 mL×4 4500 rpm/3780 ×g</p>	 <p>Tube holder   GNP038 250 mL×4 4500 rpm/3780 ×g</p>	 <p>Tube holder   GNP039 100 mL×8 4500 rpm/3710 ×g</p>	 <p>Tube holder   GNP040 50 mL×16 4500 rpm/3780 ×g</p>
		 <p>Tube holder   GNP041 15mL×32 4500rpm/3780×g</p>	 <p>Tube holder   GNP042 5mL×64 4000rpm/2860×g</p>	 <p>Tube holder   GNP043 8/10mL×52 4000rpm/2916×g</p>

OTHER ROTORS



Angle rotor | GLK030  
15 mL×12  
6000 rpm/5150 ×g



Angle rotor | GLK031  
50 mL×8  
6000 rpm/5150 ×g



Angle rotor | GLK032  
1.5/2 mL×12  
18000 rpm/22530 ×g



Angle rotor | GLK033  
1.5/2 mL×24  
16000 rpm/23470 ×g



Angle rotor | GLK034  
0.5 mL×36  
15000 rpm/16350 ×g



Angle rotor | GLK035  
0.2 mL×8×4  
14800 rpm/16200 ×g



Angle rotor | GLK036  
5 mL×12  
16000 rpm/18890 ×g



Angle rotor | GLK037  
10 mL×12  
13000 rpm/15315 ×g



Angle rotor | GLK038  
15 mL×8  
13000 rpm/17570 ×g



Angle rotor | GLK039  
50 mL×6  
12000 rpm/16501 ×g



Angle rotor | GLK040  
100 mL×4  
12000 rpm/15940 ×g



Microplate rotor | GNP015  
4 Microplates×2×96  
2 Deep-well plates×2×96  
4000 rpm/2505 ×g

## ADAPTERS AND BOTTOM PADS



## COMPATIBILITY OF ACCESSORIES

Code	Description	Tubes required	Used in	Including
<b>GNF004</b>				
GNP036	Swing out rotor	-	Centrifuge	Yes
GNP037	Cup 250 mLx4	-	GNP036	No
GNP038	Tube holder 250 mLx4	PP flat bottom with lid	GNP037	No
GNP039	Tube holder 100 mLx8	PP round bottom with lid	GNP037	No
GNP040	Tube holder 50 mLx16	PP conical bottom with lid	GNP037	No
GNP041	Tube holder 15 mLx32	PP conical bottom with lid	GNP037	No
GNP042	Tube holder 5 mLx64	Vacuum blood collection vessel diameter 13×100 mm	GNP037	No
GNP043	Tube holder 8/10 mLx52	Vacuum blood collection vessel diameter 16×100 mm	GNP037	No
GNP015	Rotor 8 microplates	4Microplate ×2×96/Deep-well plate 2 pcs×2×96	Centrifuge	No
GLK030	Angle rotor for 12 x 15 mL	PP round/conical bottom with lid	Centrifuge	No
GLK031	Angle rotor for 8 x 50 mL	PP round/conical bottom with lid	Centrifuge	No
GLK032	Angle rotor for 12 x 1.5/2 mL	PP round/conical bottom with lid	Centrifuge	No
GLK033	Angle rotor for 24 x 1.5/2 mL	PP round/conical bottom with lid	Centrifuge	No
GLK034	Angle rotor for 36 x 0.5 mL	PP conical bottom with lid	Centrifuge	No
GLK035	Angle rotor (4 x 0.2 mL PCR strips)	PP conical-bottom PCR tube with cap	Centrifuge	No
GLK036	Angle rotor for 12 x 5 mL	PP round bottom with lid	Centrifuge	No
GLK037	Angle rotor for 12 x 10 mL	PP round bottom with lid	Centrifuge	No
GLK038	Angle rotor for 8 x 15 mL tubes	PP conical bottom with lid	Centrifuge	No
GLK039	Angle rotor for 6 x 50 mL tubes	PP conical bottom with lid	Centrifuge	No
GLK040	Angle rotor for 4 x 100 mL	PP round bottom with lid	Centrifuge	No
GDF001	0.2 mL microtube adapter	PP conical bottom with lid	GLK032/033	Yes*
GDF002	0.5 mL microtube adapter	PP conical bottom with lid	GLK032/033	Yes*
GDF014	Adapter for 15 mL tubes	PP conical bottom with lid	GLK039	No
GDF015	Bottom pad for 50 mL tubes	PP round bottom with lid	GLK039	No

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

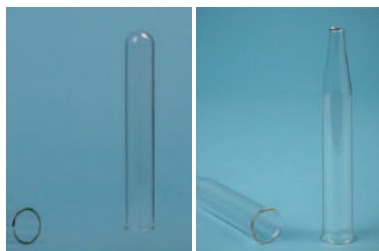
## RECOMMENDED TUBES

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
8×0.2 mL microtube strip	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
Flat bottom PP bottle 250 mL	GNQ001

# Compatible tubes

## EndoPlasticware and EndoGlassware

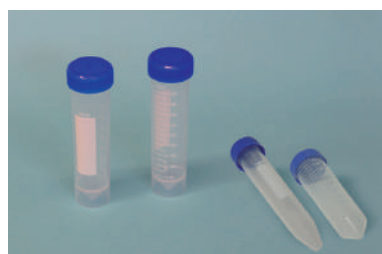
### PIPES



#### Centrifuge tubes, glass



Code	Bottom	Max. RCF	Capacity	dxd	Thickness	Lot
BGD001	Redondo	3130 xg	12mL	16x100 mm	1.2 mm	100
BGD002	Cónico	3130 xg	12mL	17x110 mm	1.0 mm	100



#### Centrifuge tubes, graduated PP



Code	Capacity	Max. RCF	dxd	Lot
BGD010	15 mL	10000 xg	16x120 mm	50
BGD011	50 mL	10000 xg	29x117 mm	25
BGD070*	50 mL	6000 xg	30x115 mm	25

\*With skirt



#### Centrifuge tubes, High Quality



Code	Max. RCF	Cap.	Bottom	Sterile	Pack	Lot
BGD082	10500 xg	15 mL	Conical	No	B/ 25 pcs	20
BGD083	17000 xg	15 mL	Conical	No	Rack/25 pcs	10
BGD084	10500 xg	15 mL	Conical	Yes	B/ 25 pcs	20
BGD085	12000 xg	50 mL	Conical	No	B/ 25 pcs.	20
BGD086	20000 xg	50 mL	Conical	No	Rack/25 pcs	20
BGD087	12000 xg	50 mL	Conical	Yes	B/ 25 pcs.	20
BGD088	6000 xg	50 mL	Skirt	No	B/ 25 pcs.	20
BGD089	6000 xg	50 mL	Skirt	Yes	B/ 25 pcs.	20

## MICROTUBES



## Microtubes for PCR, PP



Code	Capacity	Max. RCF	Pack
BGN003	0,2 mL	15000 xg	B/1000 pcs.



## Microtubes for PCR, High Quality



Code	Cap.	Bottom	Sterile	Packaging	Lot
BGN026	0,2 mL	Conical	No	B/500 pcs.	6



## PCR Microtube Strip, High Quality



Code	Strip	Cap.	Max. RCF	Pack	Lot
BGN006	8	0.2 mL	15000 xg	B/100 pcs.	10
BGN007	12	0.2 mL	15000 xg	B/200 pcs.	20



## Microtubes for centrifuges, High Quality



Code	Cap.	Max. RCF	Fund	Sterile	Packaging	Lot
BGN027	1,5 mL	20000 xg	Conical	No	B/1000 pcs.	10



## Microtubes for centrifuges, PP



Code	Capacity	Max. RCF	Pack	Lot
BGN004	0.5 mL	15000 xg	B/1000 pcs.	25
BGN005	1.5 mL	20000 xg	B/500 pcs.	20
BGN025	2 mL	20000 xg	B/500 pcs.	500
BGN029	5 mL	25000 xg	B/100 pcs.	20

The group

**AUXILAB**

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