

Low Speed Centrifuges

416



- | Max. 4,000 rpm/2,700 g
- | Max. 4 x 100 ml, 4 microplates, or 32 vacuutainers
- | A large assortment of rotors, fixed angle or swing-out with buckets and adaptors to take tubes from micro to 100 ml
- | SOFT spin key for gentle acceleration and deceleration
- | Low Noise level : 52 dB with unique airflow damping and elimination of sample heating
- | Double layered door construction (ABS/Steel), decreases heat and noise transmission
- | Automatic recognition and alarms for imbalance, over-speed, and over-heat
- | Program memory for up to 10 programs
- | Time controls for timed runs up to 99 minutes or continuous operation
- | Bio-Caps Buckets aerosol tight buckets prevents contamination and ensures safety

### | Applications

- General laboratory applications, including biological sample separations of cellular materials, blood, urine, sperm etc.
- Clinical applications of PRP, PRF, lipid cell separation, stemcell isolation
- Low-speed, gentle centrifugation of microbead containing microplate
- Gentle, soft spin-down or washing of primary cells & cell line.

GYROZEN

Rotors Overview



Technical Specifications

Max. RPM/RCF	Fixed angle	4,000/2,700 xg
	Swing out	4,000/2,774 xg
Max. capacity	Fixed angle	16 x 15 ml
	Swing out	4 x 100 ml
Time control	Timed < 100 min or continuous	
RPM/RCF conversion	Yes	
Noise level (dB)	≤ 52	
Acc/Dec (sec)	≤ 20 / ≤ 20	
SOFT start/stop	Yes	
Program memory	10	
Imbalance cut off	Yes	
Safety lid lock	Yes	
Lid drop protection	Yes	
Automatic door release at completion	Yes	
Power supply (V/Hz)	220/50-60 (110V optional)	
Power requirement (VA)	300	
Dimension (W x D x H, mm)	375 x 480 x 260	
Weight without rotor (Kg)	19.5	
CE mark	Yes	
Cat. No.	GZ-416	

### Swing Rotor, GRS-S-100-4

4 loadings  
 ↗ 90°



Bioseal Bucket with O-ring

<b>Bioseal 100 mℓ Bucket</b> GLB-b100-100
Bucket bore (Φ x L, mm) : 47 x 99
Radius(mm) : 155.1
Max. RPM : 4,000
Max. RCF(g-force) : 2,774
Max height for tube fit(mm) : 114 (w/ cap) / 130 (w/o cap)

Tube										
Tube capacity(mℓ)	1.5-2.0	2.6-7	4-10	9-15	15 mℓ conical	15 mℓ conical	50	50 mℓ conical	85	100
Tube rack / Adaptor										
Cat. No.	GAM-m2.0-6 (b100)	GAM-7-5 (b100)	GAM-10-5 (b100)	GAM-15-3 (100)	GAM-c15-3 (100)	GAS-c15 (b100)	GAS-50 (b100)	GAS-c50 (b100)	GAS-85 (b100)	GAS-100 (b100)
Rack capacity(ea/4)	6/24	5/20	5/20	3/12	3/12	1/4	1/4	1/4	1/4	1/4
Hole dimension (Φ x L, mm)	11 x 39	13.5 x 60	16 x 60	17.5 x 105	17.2 x 106.5	17.2 x 106.5	29.5 x 95.9	30 x 100	38.5 x 96.4	44 x 106.4

■ (b100) adaptors work fine with bioseal capping but [100] adaptors not.

Vacuotainer Bucket



<b>Vacuotainer 10 mℓ Bucket</b> GLB-10-8-100
Bucket capacity : 8/ea
Bucket bore (Φ x L, mm) : 16 x 89
Radius(mm) : 155.1
Max. RPM : 4,000
Max. RCF(g-force) : 2,774
Max height for tube fit(mm) : 120

Tube	
Tube capacity (mℓ)	10
Bucket capacity (ea/4)	8/32

## Swing Rotor, GRS-S-50-4

4 loadings  
 ↗ 90°



Round 50 mL Bucket GLB-50-50
Bucket bore (Φ x L, mm) : 30.5 x 91
Radius(mm) : 151.5
Max. RPM : 4,000
Max. RCF(g-force) : 2,700
Max height for tube fit(mm) : 125

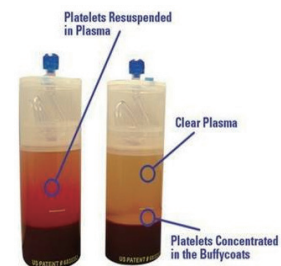
Tube				
Tube capacity(mL)	15	15 mL conical	50 mL conical	50
Adaptor				None
Cat. No.		GAS-u15(50)	GAS-c50(50)	-
Adaptor bore (Φ, mm)		17.3 x 87	29.5 x 17.5	-



Dual 15 mL Bucket GLB-d15-50
Bucket capacity : 2/ea
Bucket bore (Φ x L, mm) : 17 x 91.5
Radius(mm) : 151.5
Max. RPM : 4,000
Max. RCF(g-force) : 2,700
Max height for tube fit(mm) : 120

Tube	
Tube capacity (mL)	15
Bucket capacity (ea/4)	2/8

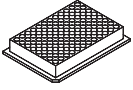
GYROZEN 416 is the most commonly used centrifuge for blood cell separation, With the SOFT spinning function and quiet operation, any blood cell or stem cell related separation will be performed with the best result in purity and recovery efficiency. Suitable for PRP (Platelet Rich Plasma), PPP (Platelet Poor Plasma), PRF(Platelet Rich Fibrinogen), stem cell separation.



### Swing Rotor, **GRS-S-mw-2**

2 loadings  
 ∠ 90°  
 Area dimension (mm) : 86.3 X 130.3  
 Max height for microplate fit (mm) : 35













Plate	
Plate capacity(mL)	MTP
Rotor capacity(ea/2)	2/4
Radius(mm)	111
Max. RPM	4,000
Max. RCF(g-force)	1,986

### Angle Rotor, **GRA-S-15-16**

16 x 15 mL  
 ∠ 45°  
 Hole diameter (mm) : 18  
 Max height for tube fit (mm) : 130



 Stainless steel 15 mL sleeves <b>GLB-15-FA</b> Sleeve bore (Φ x h, mm) : 18 x 97.5 Radius(mm) : 151.5 Max. RPM : 4,000 Max. RCF(g-force) : 2,700						
	Tube capacity(mL)	3	4	5	10	15
Adaptor				None	None	None
Cat. No.	<b>GAS-3(15)</b>	<b>GAS-4(15)</b>	<b>GAS-5(15)</b>	-	-	-
Adaptor bore (Φ x L, mm)	13.5 x 61	13.5 x 65	13.5 x 85	-	-	-
Radius(mm)	134	136	146	150.5	151.5	147.5
Max. RPM	4,000					
Max. RCF(g-force)	2,397	2,433	2,692	2,638	2,700	2,700