

# 1096R

Floor-standing, large capacity, refrigerated, centrifuge

Large Capacity  
High Speed  
Centrifuges




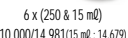

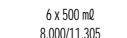
LABOGENE











## Technical Specifications

Max. RPM/RCF	Fixed angle	10,000/14,981 xg	Rotor identification	Automation
	Swing out	5,000/6,222 xg	Imbalance cut off	Yes
Max. capacity	Fixed angle	6 x 500 mL	Display	Blue LCD
	Swing out	4 x 1,400 mL	Safety lid lock	Yes
Temp. range (°C)		-20~+40	Lid drop protection	Yes
FAST COOL button		Yes	Power supply (V/Hz)	220/50-60 (110V optional)
Time control		Pulse, timed <10 hr or continuous	Power requirement (KVA)	3
RPM/RCF Conversion		Yes	Dimension (W x D x H, mm)	643 x 762 x 850
Noise level (dB)		≤56	Weight without rotor (Kg)	180
Acc/Dec		5/6 steps	CE mark	Yes
Program memory		100	Cat. No.	LZ-1096R







## Rotors Overview

GRF-L-250-6		GRF-L-500-6	
			
6 x (250 & 15 ml) 10,000/14,981(15 ml : 14,679)		6 x 500 ml 8,000/11,305	

GRS-L-r250-4					GRS-L-r750-4		
							
4 x 100 ml 4,000/4,358	4 x 100 ml 4,000/4,155	4 x 100 ml 4,000/4,191	4 x 250 ml 4,000/3,134	4 x 4 MTPs 4,000/2,737	4 x 750 ml 3,600/2,898	4 x 500 ml 3,600/3,159	4 x 4 MTPs 3,600/2,485

GRS-L-750-4				GRS-L-1400-4	
					
4 x 750 ml 4,000/3,667	4 x 750 ml 4,000/3,667	4 x 500 ml 4,000/3,900	4 x 4 MTPs 4,000/3,068	4 blood bags 5,000/6,222	4 x 4 MTPs 5,000/6,001

- | Max. 10,000 rpm (14,900 xg) with 6 x 250 ml tubes, 5,000 rpm (6,000 xg) with 4 x filter plate sets
- | Max. capacity of 4x 1,400 ml (96 x 15 ml) with swing-out rotor & 6x500ml with fixed angle rotor
- | LCD touch screen with intuitive Window based control for easy editing and programming
- | Intuitive control interface with numeric key entering
- | Strong, triple laminated ABS/Steel door with auto-lock function
- | Automatic recognition and alarms for imbalance, over-speed, and over-heat
- | High capacity, strong compressor ensures fast cooling of chamber and samples
- | Lowest temperature of -20 °C with Fast cool down function to reach 4°C within 5 minutes
- | Time setting to 99 hour 59 min 59 sec or continuous
- | 5 acceleration and 6 deceleration ramps
- | Program memory for up to 100 programs
- | Large capacity swing-out rotor with windshield lid available
- | Mounted on lockable and leveling castors

### Applications

- Ideal for diverse applications of clinical, industrial, academic, and scientific separation needs
- Specially designed buckets available for finely graduated 100ml glass tubes to analyze oil purity, milk fat fraction, toxic components, impurities, etc.
- Adaptors available for blood separation from 500ml & 250ml blood bags or many different sizes of blood collection tubes

## Swing Rotor, GRS-L-1400-4 Swing Rotor w/ Windshield, GRS-L-1400-4W

4 loadings

↻ 90°

Recommend the windshield mounted rotor at higher than 2,500 rpm



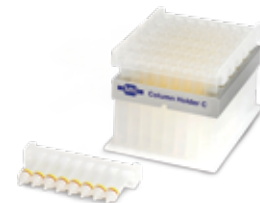
<b>Oval Bucket</b> GLB-1400-1400
Bucket bore (wxdxh, mm) 134 x 115 x 135
Radius(mm) : 222.6
Max. RPM : 5,000
Max. RCF(g-force) : 6,222
Max height for tube fit(mm) : 150

Tube					
Tube capacity(ml)	400	200	50 ml conical	50	15
Tube Rack					
Cat. No.	GAM-400-2(1400)	GAM-200-3(1400)	GAM-c50-9(1400)	GAM-50-12(1400)	GAM-15-24(1400)
Hole dimension (Φ x L, mm)	104 x 58 x 135	104 x 39 x 135	29.5 x 100	29 x 90	17.2 x 100
Rack capacity(ea/4)	2/8	1/4	9/36	12/48	24/96
Radius(mm)	222.6	222.6	187.6	180.6	197.6
Max. RPM			5,000		
Max. RCF(g-force)	6,222	6,222	5,243	5,048	5,523



<b>Microplate Holder</b> GLP-mw-1400
Holder dimension (wxdxh, mm) 88 x 128.5 x 90
Radius(mm) : 214.7
Max. RPM : 5,000
Max. RCF(g-force) : 6,001

Plate			
Plate capacity(ml)	MTP	DWP	Filter Plate
Holder capacity(ea/4)	4/16	1/4	1/4



## Swing Rotor, GRS-L-750-4

4 loadings

∠ 90°

Supplied with aerosol tight O-ring



Bioseal



Bioseal Bucket

<b>Round 750 mL Bucket</b> GLB-b750-750 / GLB-750-750
Bucket bore(ΦxL, mm) : 99 x 130
Radius(mm) : 205
Max. RPM : 4,000
Max. RCF(g-force) : 3,667
Max height for tube fit(mm) : 130 (w/ cap) / 142 (w/o cap)

Tube								
Tube capacity(mL)	3	5	10	15	15 mL conical	50	50 mL conical	250
Tube rack								
Cat. No.	GAM-5-24(750)		GAM-10-21(750)	GAM-15-19(750)	GAM-c15-14(750)	GAM-50-7(750)	GAM-c50-5(750)	GAS-250(750)
Rack capacity(ea/4)	24/96		21/84	19/76	14/56	7/28	5/20	1/4
Hole dimension (Φ x L, mm)	13 x 58	13 x 85	16 x 85	17 x 85	17 x 85	29 x 87	29 x 88	62.5 x 87

\* GLB-b750-750 includes bioseal cap.



<b>Round 500 mL Bucket</b> GLB-500-750
Bucket bore(ΦxL, mm) : 69.2 x 135
Radius(mm) : 218
Max. RPM : 4,000
Max. RCF(g-force) : 3,900
Max height for tube fit(mm) : 165

Tube	
Tube capacity(mL)	500
Bucket capacity(ea/4)	1/4



<b>Microplate Holder</b> GLP-mw-750
Holder dimension (wxdxh, mm) : 88 x 128.5 x 80
Radius(mm) : 171.5
Max. RPM : 4,000
Max. RCF(g-force) : 3,068

Plate		
Plate capacity(mL)	MTP	DWP
Holder capacity(ea/4)	4/16	1/4

## Swing Rotor, GRS-L-r750-4

4 loadings

↳ 90°



<b>Rectangular 750 mL Bucket</b> GLB-r750-r750
Bucket bore (wxdh, mm) : 99 x 99 x 98
Radius(mm) : 200
Max. RPM : 3,600
Max. RCF (g-force) : 2,898
Max height for tube fit(mm) : 135

Tube								
Tube capacity(mL)	3	5	10	15	15 mL conical	50	50 mL conical	250
Tube rack								
Cat. No.	GAM-5-30(r750)		GAM-15-20(r750)		GAM-c15-16(r750)	GAM-50-8(r750)	GAM-c50-5(r750)	GAS-250(r750)
Rack capacity(ea/4)	30/120		20/80		16/64	8/32	5/20	1/4
Hole dimension (Φ x L, mm)	13 x 56.5	13 x 85	17.2 x 85		17.5 x 85	29.5 x 85	29.5 x 85	62.5 x 87



<b>Round 500 mL Bucket</b> GLB-500-r750
Bucket bore(ΦxL, mm) : 69.2 x 135
Radius(mm) : 218
Max. RPM : 3,600
Max. RCF (g-force) : 3,159
Max height for tube fit(mm) : 165

Tube	
Tube capacity(mL)	500
Bucket capacity(ea/4)	1/4



<b>Microplate Holder</b> GLP-mw-r750
Holder dimension (wxdh, mm) : 88 x 128.5 x 80
Radius(mm) : 171.5
Max. RPM : 3,600
Max. RCF (g-force) : 2,485

Plate		
Plate capacity(mL)	MTP	DWP
Holder capacity(ea/4)	4/16	1/4

## Swing Rotor, GRS-L-r250-4

4 loadings  
↗ 90°



<b>Rectangular 250 ml Bucket</b> GLB-r250-r250
Bucket bore (wxdxh, mm) : 86 x 70.3 x 102.5
Radius(mm): 175.2
Max. RPM : 4,000
Max. RCF(g-force) : 3,134
Max height for tube fit(mm) : 125

Tube										
Tube capacity(ml)	3	5	10	15	15 ml conical	50	50 ml conical	15	85	250
Tube rack										
Cat. No.	GAM-5-12(r250)		GAM-15-12(r250)		GAM-c15-9(r250)	GAM-50-4(r250)	GAM-c50-3(r250)	GAM-85-2(r250)		GAS-250(r250)
Rack capacity(ea/4)	12/48	12/48	12/48	9/36	4/16	3/12	2/8		1/4	
Hole dimension (Φ x L, mm)	13.5 x 58	13.5 x 80	17.5 x 90	17.5 x 90	30.2 x 90	30.5 x 90	17 x 90	38.5 x 90	62.5 x 87	



<b>Microplate Holder</b> GLP-mw-r250
Holder dimension (wxdxh, mm) : 88 x 128.5 x 80
Radius(mm) : 175.2
Max. RPM : 4,000
Max. RCF(g-force) : 2,737

Plate		
Plate capacity(ml)	MTP	DWP
Holder capacity(ea/4)	4/16	1/4



<b>100 ml Bucket</b> GLB-100(L)-r250
Bucket bore (φxL, mm) : 35.5 x 180.6
Radius(mm) : 243.6
Max. RPM : 4,000
Max. RCF(g-force) : 4,358
Max height for tube fit(mm) : 207

Glass	
Glass capacity(ml)	100



<b>100 ml Bucket</b> GLB-100(S)-r250
Bucket bore (φxL, mm) : 44.6 x 143.3
Radius(mm) : 232.3
Max. RPM : 4,000
Max. RCF(g-force) : 4,155
Max height for tube fit(mm) : 166

Glass	
Glass capacity(ml)	100



<b>100 ml Bucket</b> GLB-100(C)-r250
Bucket bore (φxL, mm) : 13.3 x 145.3
Radius(mm) : 234.3
Max. RPM : 4,000
Max. RCF(g-force) : 4,191
Max height for tube fit(mm) : 161

Glass	
Glass capacity(ml)	100


### Fixed Angle Rotor, GRF-L-500-6

6 x 500 mL

∠ 25°

Hole diameter (mm) : 70

Max height for tube fit (mm) : 170

Tube	
Tube capacity(mL)	500
Radius(mm)	170
Max. RPM	8,000
Max. RCF(g-force)	11,305





### Fixed Angle Rotor, GRF-L-250-6

6 x (250 & 15 mL)

∠ 25°

Hole diameter (250/15)(mm) : 62/17

Max height for tube fit (250/15)(mm) : 134/115

Tube	 
Tube capacity(mL)	15      250
Radius(mm)	134
Max. RPM	10,000
Max. RCF(g-force)	14,679      14,981

