

MULTI-PURPOSE, TABLE-TOP CENTRIFUGE

1696R





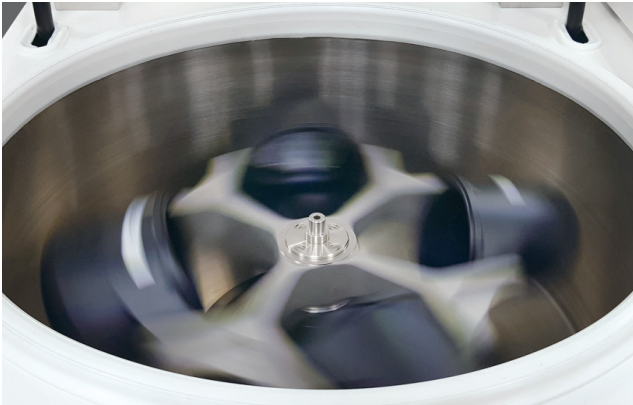
Multi-Purpose, Table-Top Centrifuge **1696R**

The refrigerated GYROZEN 1696R combines high capacity and performance in an attractive form that clearly sets itself from the others. It combines a high capacity of up to 4 x 1,000 mL, with class-leading versatility of 11 kinds of fixed angle rotors and 6 kinds of swing-out rotors with different tube racks. It also features the improved high-performance motor specifically developed for 1696R to minimize any speed deviation, which makes it ideal for a setting that requires both precision and consistency in every step.

Features

- High centrifugation speed that goes up to 27,590 xg (16,000 rpm)
 - Swing-Out bucket rotors accommodating tubes and bottles from 0.2 mL to 1,000 mL
 - Motorized soft-touch lid for easy effortless closing
 - Highly visible display screen with integrated touch buttons for easy maintenance
 - Numeric keys for quick setting
 - Fast-Cool function that to set temperature to 4°C in 5 minutes for a quick start
 - Key-lock function to prevent any unintentional changes during operation
 - Automatic rotor recognition and imbalance detection warning for safety
-

Advanced Features



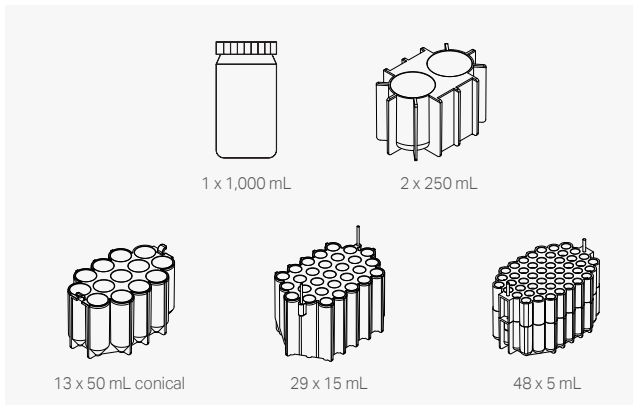
Accurate Speed

± 0.1% speed deviation



Large Display With Integrated Touch Buttons

Contourless single continuous display with integrated touch buttons for easy handling



High-throughput, Large Capacity

Swing out Rotor, GRS-B-1000-4 with GLB-h1000-1000 bucket

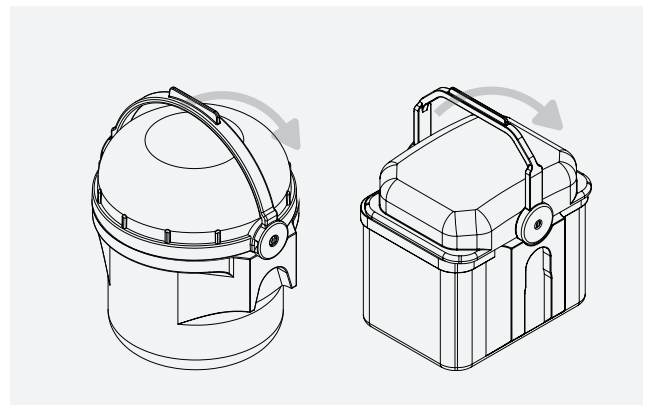
One Time Rotor Locking

To fix rotor safely on the motor's shaft, only tightened the rotor's lid completely.



Built-in Storage

Thanks to its smart use of space, the emergency tool and level is always within easy reach for maximum operational convenience



Click Type Bucket For Safe Sealing

Locking mechanism is incorporated within the handle for safe sealing

1696R SWING-OUT ROTOR



GRS-B-1000-4
 4 loadings
 ∠ 90°
 Radius(mm): 218
 Max.RPM: 3,700
 Max.RCF(g-force): 3,337




GRS-B-750-4
 4 loadings
 ∠ 90°
 Radius(mm): 205
 Max.RPM: 4,600
 Max.RCF(g-force): 4,850




GRS-B-r750-4
 4 loadings
 ∠ 90°
 Radius(mm): 200
 Max.RPM: 3,600
 Max.RCF(g-force): 2,898

GLB-h1000-1000
 High capacity 1,000 mL Bucket




GAM-5-48(h1000) 48 x 3/5 mL	GAM-10-38(h1000) 38 x 10 mL
GAM-15-29(h1000) 29 x 15 mL	GAM-c15-29(h1000) 29 x 15 mL conical
GAM-50-13(h1000) 13 x 50 mL	GAM-c50-13(h1000) 13 x 50 mL conical
GAM-250-2(h1000) 2 x 250 mL	GLP-mw-h1000 4MTP / 1 DWP

GLB-b750-750B
 750 mL Bucket
 (Optional- Click Seal Plastic Cap)




GAM-5-24(750) 24 x 3/5 mL	GAM-10-21(750) 21 x 10 mL
GAM-15-19(750) 19 x 15 mL	GAM-c15-14(750) 14 x 15 mL conical
GAM-50-7(750) 7 x 50 mL	GAM-c50-5(750) 5 x 50 mL conical
GAS-250(750) 1 x 250 mL	GAS-c250(750) 1 x 250 mL conical
GAS-c500(750) 1 x 500 mL conical	GAS-500(750) 1 x 500 mL

GLB-r750-r750
 Rectangular 250 mL Bucket




GAM-5-30(r750) 30 x 3/5 mL	GAM-15-20(r750) 20 x 15 mL
GAM-c15-16(r750) 16 x 15 mL conical	GAM-50-8(r750) 8 x 50 mL
GAM-c50-5(r750) 5 x 50 mL conical	GAS-250(r750) 1 x 250 mL
GAS-c250(r750) 1 x 250 mL conical	GAS-500(r750) 1 x 500 mL
GAS-c500(r750) 1 x 500 mL conical	

GLB-r1000-1000
 Rectangular 1,000 mL Bucket
 (Optional- Click Seal Plastic Cap)




GAM-10-35(r1000) 35 x 10 mL	GAM-15-28(r1000) 28 x 15 mL
GAM-c15-22(r1000) 22 x 15 mL conical	GAM-50-11(r1000) 11 x 50 mL
GAM-c50-10(r1000) 10 x 50 mL conical	GLP-mw-r1000 6xMTP / 2 x DWP


GLB-500-750B
 Round 500 mL Bucket




GLB-500-r750
 Round 500 mL Bucket




GLB-mw-750B
 Microplate Holder



GLP-mw-r750
 Microplate Holder



GLB-b1000-1000
 Round 1,000 mL Bucket
 (Optional- Click Seal Plastic Cap)



GAM-5-24(750) 24 x 3/5 mL	GAM-10-21(750) 21 x 10 mL	GAM-15-19(750) 19 x 15 mL	GAM-c15-14(750) 14 x 15 mL conical	GAM-50-7(750) 7 x 50 mL	GAM-c50-5(750) 5 x 50 mL conical	GAS-250(750) 1 x 250 mL	GAS-c250(750) 1 x 250 mL conical	GAS-c500(750) 1 x 500 mL conical	GAS-500(750) 1 x 500 mL
------------------------------	------------------------------	------------------------------	---------------------------------------	----------------------------	-------------------------------------	----------------------------	-------------------------------------	-------------------------------------	----------------------------



GRS-B-r250-4

4 loadings
∠ 90°
Radius(mm): 175.2
Max.RPM: 4,000
Max.RCF(g-force): 3,134



GRS-B-250-4

4 loadings
∠ 90°
Radius(mm): 193
Max.RPM: 5,000
Max.RCF(g-force): 5,394



GRS-B-100-6

6 loadings
∠ 90°
Radius(mm): 173.6
Max.RPM: 4,200
Max.RCF(g-force): 3,424

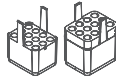


GLB-r250-r250

Rectangular 250 mL Bucket



GAM-m2.0-20(250)
20x15/2.0mL



GAM-5-12(250)
12x3/5mL



GAM-15-12(250)
12x 10/15mL



GAM-c15-9(250)
9x 15 mL conical



GAM-50-4(250)
4x50mL



GAM-c50-3(250)
3x50mL conical



GAM-85-2(250)
2x(65 mL + 15 mL)



GAM-250(250)
1x250mL



GAM-s50-4(250)
4x50mL syringe



GLB-250-250

Round 250 mL Bucket



GLB-c250-250

Conical 250 mL Bucket



GLB-60-250

60 mL Syringe Bucket



GAS-60s(60)
1x 60 mL syringe



GLB-d20/10-250

Dual 10 mL/20 mL Syringe Bucket



GAS-10s(10)
2x 10 mL syringe



GAS-20s(20)
2x 20 mL syringe



GLB-b100-100

100 mL Bucket with Cap



GAM-m2.0-6(b100)
6x 1.5/2.0mL



GAM-7-5(b100)
5x 2.6-7 mL



GAM-10-5(b100)
5x 4-10 mL



GAM-15-3(100)
3x 9-15 mL



GAM-c15-3(100)
3x 15 mL conical



GAS-c15(b100)
1x 15 mL conical



GAS-50(b100)
1x 50 mL



GAS-c50(b100)
1x 50 mL conical



GAS-85(b100)
1x 85 mL



GAS-100(b100)
1x 100 mL



GLP-mw-r250

Microplate Holder



GLB-b50-100

50 mL Bucket with Cap



GAS-u15(50)
1x 15 mL/15 mL conical



GAS-c50(50)
1x 50 mL conical



GLB-dc50-100

Dual Conical 50 mL Bucket



GLB-10-8-100

Vacutainer 10 mL Bucket



GAS-3(10)
8x 1.6~5 mL



GAS-5(10)
8x 4~7 mL



GLB-bd15-100

Dual Round 15 mL Bucket with Cap



GLB-bdc15-100

Dual Conical 15 mL Bucket with Cap

1696R FIXED ANGLE ROTOR



GRF-B-250-6

6 x 250 mL + 6 x 15 mL
 ∠ 25°
 Hole dimension (∅ x L, mm)
 : 62 x 100 / 17 x 94
 Hole bottom type: Flat / Round
 Max. height for tube fit(mm):130/120



GRF-B-15-24

24 x 15 mL (12 outer,12 inner)
 ∠ 30°
 Hole dimension (∅ x L, mm): 17.1 x 94
 Hole bottom type: Round
 Max. height for tube fit(mm): 120
 Supplied with an O-ring



GRF-B-85-6

6 x 85 mL
 ∠ 25°
 Hole dimension (∅ x L, mm): 38.5 x 100
 Hole bottom type: Round
 Max. height for tube fit(mm): 125
 Supplied with an O-ring



GRF-B-15-12

12 x 15 mL
 ∠ 30°
 Hole dimension (∅ x L, mm): 17 x 93.2
 Hole bottom type: Round
 Max. height for tube fit(mm): 125
 Supplied with an O-ring



GAS-15(85)
1 x 10/15 mL



GAS-c15(85)
1 x 15 mL conical



GAS-50(85)
1 x 50 mL



GAS-c50(85)
1 x 50 mL conical



GRF-B-c15-12

12 x 15 mL conical
 ∠ 25°
 Hole dimension (∅ x L, mm) : 17 x 107.2
 Hole bottom type: Conical
 Max. height for tube fit(mm): 125
 Supplied with an O-ring



GRF-B-50-8

8 x 50 mL
 ∠ 30°
 Hole dimension (∅ x L, mm): 29.5 x 93.2
 Hole bottom type: Round
 Max. height for tube fit(mm):120
 Supplied with an O-ring



GRF-B-m5.0-20

20 x 5.0 mL
 ∠ 45°
 Hole dimension (∅ x L, mm): 17 x 53
 Hole bottom type: Conical
 Max. height for tube fit(mm): 68
 Supplied with an O-ring



GAS-15(50)
1 x 10/15 mL



GAS-c15(50)
1 x 15 mL conical



GRF-B-c50-6

6 x 50 mL Conical
 ∠ 25°
 Hole dimension (∅ x L, mm): 30 x 108.6
 Hole bottom type: Conical
 Max. height for tube fit(mm): 125
 Supplied with an O-ring



GRF-B-m2.0-48

48 x 1.5/2.0 mL (24 outer,24 inner)
 ∠ 45°
 Hole dimension (∅ x L, mm): 11.1 x 39
 Hole bottom type: Round
 Max. height for tube fit(mm): 52
 Supplied with an O-ring



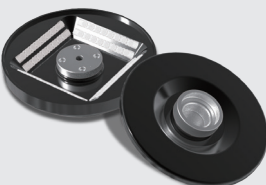
GAS-c15(c50)
1 x 15 mL conical



GAS-m0.2(2)
1 x 0.2 mL



GAS-m0.5(2)
1 x 0.5 mL



GRF-B-s0.2-64

8 x 8-Tube PCR strips, 64 x 0.2 mL
 ∠ 45°
 Hole dimension (∅ x L, mm): 6.5x16
 Hole bottom type: Round
 Max. height for tube fit(mm): 25



GRF-B-m2.0-30

30 x 1.5/2.0 mL
 ∠ 45°
 Hole dimension (∅ x L, mm) : 11.1 x 39
 Hole bottom type: Round
 Max. height for tube fit(mm): 52
 Supplied an O-ring



GAS-m0.2(2)
1 x 0.2 mL

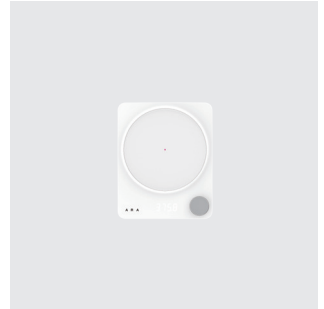


GAS-m0.5(2)
1 x 0.5 mL



Technical Specifications

Max. RPM/RCF	Fixed Angle	16,000 / 27,590 xg
	Swing-Out	5,000 / 5,394 xg
Max. Capacity	Fixed Angle	6 x 250 mL
	Swing-Out	4 x 1,000 mL
Temp. Range	-11°C ~ 40°C	
Fast Cool Button	Yes	
Time Control	Timed < 10 hr or Continuous	
Time Counting Modes	Selectable, At Set Speed Or From Starting	
RPM/RCF conversion	Yes	
Noise level (dB)	< 60dB (GRS-B-750-4 : < 70dB)	
ACC/DEC	9/10 steps	
Program memory	100 (4 Easy Program Save/Call)	
Parameters on display window	RPM (RCF), Time, Temp, ACC, DEC	
Display	White FND	
Automatic rotor identification	Yes	
Imbalance cut-off	Yes	
Safety lid lock	Yes	
Lid drop protection	Yes	
Motorized lid open & close	Yes	
Power supply	230 V, 50 Hz (AC 220-230 V, 50/60 Hz; 110 V optional)	
Power requirement	2.0kVA	
Dimension (W x D x H, mm)	775 x 695 x 395	
Weight without rotor (kg)	116 kg	
Cat. No.	GZ-1696R	



EXPERTS IN LABORATORY EQUIPMENT

CENTRIFUGES

CONCENTRATORS

FREEZE DRYERS

DEEP FREEZERS

CO₂ INCUBATOR

MIXERS & SHAKERS