

MULTI-PURPOSE, TABLE-TOP CENTRIFUGE 1696R

Ordering Guide



1696R SWING-OUT ROTOR




GRS-B-1000-4
 4 loadings
 $\angle 90^\circ$
 Radius(mm): 218
 Max. RPM: 3,700
 Max. RCF(g-force): 3,337



GRS-B-750-4
 4 loadings
 $\angle 90^\circ$
 Radius(mm): 205
 Max. RPM: 4,600
 Max. RCF(g-force): 4,850



GRS-B-r750-4
 4 loadings
 $\angle 90^\circ$
 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 4 MTP / 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-r750-750
 Rectangular 250 mL Bucket

 GAM-5-30(750) 30 x 3/5 mL	 GAM-15-20(750) 20 x 15 mL	 GAM-c15-16(750) 16 x 15 mL conical
 GAM-50-8(750) 8 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-500(750) 1 x 500 mL	 GAS-c500(750) 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 6 x MTP / 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
 $\angle 90^\circ$
 Radius(mm): 175.2
 Max. RPM: 4,000
 Max. RCF(g-force): 3,134



GRS-B-250-4

4 loadings
 $\angle 90^\circ$
 Radius(mm): 193
 Max. RPM: 5,000
 Max. RCF(g-force): 5,394



GRS-B-100-6

6 loadings
 $\angle 90^\circ$
 Radius(mm): 173.6
 Max. RPM: 4,200
 Max. RCF(g-force): 3,424

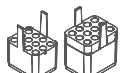


GLB-r250-r250

Rectangular 250 mL Bucket



GAM-m20-20(250)
20x15/20mL



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



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



GAM-c15-9(250)
9x15mL conical



GAM-50-4(250)
4x50 mL



GAM-c50-3(250)
3x50 mL conical



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



GAM-250(250)
1x250 mL



GAM-s50-4(250)
4x50 mL syringe



GLP-mw-r250

Microplate Holder



GLB-250-250

Round 250 mL Bucket



GLB-c250-250

Conical 250 mL Bucket



GLB-60-250

60 mL Syringe Bucket



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



GLB-d20/10-250

Dual 10 mL/20 mL Syringe Bucket



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



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



GLB-b100-100

100 mL Bucket with Cap



GAM-m20-6(b100)
6x1.5/20 mL



GAM-7-5(b100)
5x2.6~7 mL



GAM-10-5(b100)
5x4~10 mL



GAM-15-3(100)
3x9~15 mL



GAM-c15-3(100)
3x15 mL conical



GAS-c15(b100)
1x15 mL conical



GAS-50(b100)
1x50 mL



GAS-c50(b100)
1x50 mL conical



GAS-85(b100)
1x85 mL



GAS-100(b100)
1x100 mL



GLB-b50-100

50 mL Bucket with Cap



GAS-u15(50)
1x15 mL/15 mL conical



GAS-c50(50)
1x50 mL conical



GLB-dc50-100

Dual Conical 50 mL Bucket



GLB-bd15-100

Dual Round 15 mL Bucket with Cap



GLB-bdc15-100

Dual Conical 15 mL Bucket with Cap



GLB-10-8-100

Vacutainer 10 mL Bucket



GAS-3(10)
8x1.6~5 mL



GAS-5(10)
8x4~7 mL

1696R Technical Specifications

Max. RPM/RCF	Fixed Angle	16,000 rpm/27,590 xg
	Swing-out	5,000 rpm/5,394 xg
Max. Capacity	Fixed Angle	6 x 250 mL, 24 x 15 mL, 48 x 1.5/2.0 mL
	Swing-out	4 x 1,000 mL, 8 x 250 mL, 116 x 15 mL
Temp. range		-11°C to 40°C
FAST cool button		Yes
Time control		Pulse, timed < 10 hr or continuous
Time counting range		Selectable, at set speed or from starting
RCF/RPM conversion		Yes
Noise level (dependent on rotor)		≤60 dB (GRS-B-750-4 : ≤70 dB)
ACC/DEC ramps		9/10
Program memory		100, 4 easy program save/call
Power supply		220~230V, 60/50 Hz (110V optional)
Power Requirement		2.0 KW
Dimension (W x D x H)		775 x 695 x 395 mm
Net weight		116 kg

1696R FIXED ANGLE ROTOR



GRF-B-250-6

6 x 250 mL + 6 x 15 mL
 ∠ 25°
 Max. RPM: 8,000
 Max. RCF(g-force): 9,588 xg
 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°
 Max. RPM: 8,000
 Max. RCF(g-force): 8,872 xg
 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°
 Max. RPM: 12,000
 Max. RCF(g-force): 17,709 xg
 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°
 Max. RPM: 15,000
 Max. RCF(g-force): 25,155 xg
 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°
 Max. RPM: 15,000
 Max. RCF(g-force): 25,910 xg
 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°
 Max. RPM: 15,000
 Max. RCF(g-force): 25,910 xg
 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°
 Max. RPM: 13,500
 Max. RCF(g-force): 22,209 xg
 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°
 Max. RPM: 13,000
 Max. RCF(g-force): 18,592 xg
 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°
 Max. RPM: 15,000
 Max. RCF(g-force): 24,602 xg
 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°
 Max. RPM: 12,000
 Max. RCF(g-force): 10,803 xg
 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°
 Max. RPM: 16,000
 Max. RCF(g-force): 27,590 xg
 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