

Multi-purpose, High Speed Centrifuges

 1236R



PULSE



≤ 60dBa



DISPLAY



PROGRAMS



IMBALANCE



5 ACC
6 DEC



ROTOR ID



12,000
RPM



16,582 xg
RCF



FAST COOL



The 1236R is a floor standing refrigerated centrifuge, offering a small “footprint”, thereby saving valuable bench space. Fitted with lockable castors for easy maneuverability and positioning.

- | Very intuitive LCD display control
- | Automatic rotor identification for safety and easy operation
- | “Pulse” key for quick runs
- | Automatic RPM/RCF conversion
- | 5 acceleration and 6 deceleration ramps
- | Program memory for up to 100 programs
- | Automatic recognition and alarms for imbalance, over-speed, and over-heat
- | Aerosol tight bioseal buckets prevents contamination and ensures safety
- | Diverse range of rotors, buckets, and tube adaptors available

| Applications

Ideal high speed centrifuges for general laboratory applications, including biological sample separations of cellular materials, RNA/DNA, peptides, bloods, urine, sperm etc.

GYROZEN

Rotors Overview

<p>GRF-G-m2.0-24</p>  <p>24 x 2.0 ml 15,000/21,206 (12,000/13,572)</p>	<p>GRF-G-m2.0-30</p>  <p>30 x 2.0 ml 14,000/21,124 (12,000/15,520)</p>	<p>GRA-G-15-24 GLB-15-FA</p>  <p>24 x 15 ml 4,000/3,134</p>	<p>GRF-G-15-24</p>  <p>24 x 15 ml 8,000/8,872</p>	<p>GRF-G-50-8</p>  <p>8 x 50 ml 15,000/25,910 (12,000/16,582)</p>	<p>GRF-G-85-6</p>  <p>6 x 85 ml 12,000/17,709 (10,000/12,298)</p>	
<p>GRS-G-100-6</p>		<p>GRS-G-c250-4</p>			<p>GRS-G-r250-4</p>	
<p>GLB-b100-100</p>  <p>6 x 100 ml 4,000/3,105</p>	<p>GLB-10-8-100</p>  <p>6 x 8 x 10 ml 4,000/3,161</p>	<p>GLB-c250-c250</p>  <p>4 x 250 ml 5,000/5,394</p>	<p>GLB-60-c250</p>  <p>4 x 60 ml 5,000/5,394</p>	<p>GLB-d20/10-c250</p>  <p>4 x 2 x (20 & 10 ml) 5,000/4,752(20) 5,000/4,472(10)</p>	<p>GLB-r250-r250</p>  <p>4 x 250 ml 4,000/3,134</p>	<p>GLP-mw-r250</p>  <p>4 x 4 MTPs 4,000/2,737</p>

Technical Specifications

		1236R
Max. RPM/RCF	Fixed angle	12,000/16,582 xg
	Swing out	5,000/5,394 xg
Max. capacity	Fixed angle	6 x 85 ml
	Swing out	4 x 250 ml/250 ml conical
Temp. range (°C)		-20~+40
FAST COOL button		Yes
Time control		Pulse, timed < 10 hr or continuous
RPM/RCF conversion		Yes
Noise level (dB)		≤60
Acc/Dec		5/6 steps
Program memory		100
Rotor Identification		Automation
Imbalance cutout		Yes
Display		Blue LCD
Safety lid lock		Yes
Automatic door release at completion		-
Lid drop protection		Yes
Radius correction		-
Power supply (V/Hz)		220/50-60 (110V optional)
Power requirement		2.5 KVA
Dimension (W x D x H, mm)		473 x 600 x 840
Weight without rotor (Kg)		110
CE mark		Yes
Cat. No.		GZ-1236R

Multi-purpose, High Speed Centrifuges

1248
1248R



1248



12,000
RPM



15,520 xg
RCF



AIR FLOW
COOLING

Common



PULSE



≤ 60dBa



BLUE LCD
DISPLAY



100
PROGRAMS

1248R



12,000
RPM



16,582 xg
RCF



FAST COOL



IMBALANCE



5 ACC
6 DEC



ROTOR ID



The 1248 is a compact table-top, non-refrigerated high speed centrifuge giving a maximum of 15,520xg, taking a maximum of 48 x 15 ml tubes or 4 x 250 ml tubes.

The 1248R is a compact table top, refrigerated high speed centrifuge giving a maximum of 16,582xg, taking 48x15ml tubes or 4 x 250 ml tubes.

- | Very intuitive LCD display control
- | Automatic rotor identification for safety and easy operation
- | "Pulse" key for quick runs
- | Automatic RPM/RCF conversion
- | 5 acceleration and 6 deceleration ramps
- | Program memory for up to 100 programs
- | Automatic recognition and alarms for imbalance, over-speed, and over-heat
- | Aerosol tight bioseal buckets prevents contamination and ensures safety
- | Diverse range of rotors, buckets, and tube adaptors available

| Applications

Ideal high speed centrifuges for general laboratory applications, including biological sample separations of cellular materials, RNA/DNA, peptides, bloods, urine, sperm etc.

GYROZEN

Rotors Overview

<p>GRF-G-m2.0-24</p>  <p>24 x 2.0 mL 15,000/21,206 (12,000/13,572)</p>	<p>GRF-G-m2.0-30</p>  <p>30 x 2.0 mL 14,000/21,124 (12,000/15,520)</p>	<p>GRA-G-15-24 GLB-15-FA</p>  <p>24 x 15 mL 4,000/3,134</p>	<p>GRF-G-15-24 only for 1248R</p>  <p>24 x 15 mL 8,000/8,872</p>	<p>GRF-G-50-8 only for 1248R</p>  <p>8 x 50 mL 15,000/25,910 (12,000/16,582)</p>	<p>GRF-G-85-6</p>  <p>6 x 85 mL 12,000/17,709 (10,000/12,298)</p>						
<p>GRS-G-100-6</p> <table border="0"> <tr> <td> <p>GLB-b100-100</p>  <p>6 x 100 mL 4,000/3,105</p> </td> <td> <p>GLB-10-8-100</p>  <p>6 x 8 x 10 mL 4,000/3,161</p> </td> </tr> </table>	<p>GLB-b100-100</p>  <p>6 x 100 mL 4,000/3,105</p>	<p>GLB-10-8-100</p>  <p>6 x 8 x 10 mL 4,000/3,161</p>	<p>GRS-G-c250-4</p> <table border="0"> <tr> <td> <p>GLB-c250-c250</p>  <p>4 x 250 mL 5,000/5,394</p> </td> <td> <p>GLB-60-c250</p>  <p>4 x 60 mL 5,000/5,394</p> </td> <td> <p>GLB-d20/10-c250</p>  <p>4 x 2 x (20 & 10 mL) 5,000/4,752(20) 5,000/4,472(10)</p> </td> </tr> </table>			<p>GLB-c250-c250</p>  <p>4 x 250 mL 5,000/5,394</p>	<p>GLB-60-c250</p>  <p>4 x 60 mL 5,000/5,394</p>	<p>GLB-d20/10-c250</p>  <p>4 x 2 x (20 & 10 mL) 5,000/4,752(20) 5,000/4,472(10)</p>	<p>GRS-G-r250-4</p> <table border="0"> <tr> <td> <p>GLB-r250-r250</p>  <p>4 x 250 mL 4,000/3,134</p> </td> <td> <p>GLP-mw-r250</p>  <p>4 x 4 MTPs 4,000/2,737</p> </td> </tr> </table>	<p>GLB-r250-r250</p>  <p>4 x 250 mL 4,000/3,134</p>	<p>GLP-mw-r250</p>  <p>4 x 4 MTPs 4,000/2,737</p>
<p>GLB-b100-100</p>  <p>6 x 100 mL 4,000/3,105</p>	<p>GLB-10-8-100</p>  <p>6 x 8 x 10 mL 4,000/3,161</p>										
<p>GLB-c250-c250</p>  <p>4 x 250 mL 5,000/5,394</p>	<p>GLB-60-c250</p>  <p>4 x 60 mL 5,000/5,394</p>	<p>GLB-d20/10-c250</p>  <p>4 x 2 x (20 & 10 mL) 5,000/4,752(20) 5,000/4,472(10)</p>									
<p>GLB-r250-r250</p>  <p>4 x 250 mL 4,000/3,134</p>	<p>GLP-mw-r250</p>  <p>4 x 4 MTPs 4,000/2,737</p>										

Technical Specifications

		1248	1248R
Max. RPM/RCF	Fixed angle	12,000/15,520 xg	12,000/16,582 xg
	Swing out	5,000/5,394 xg	
Max. capacity	Fixed angle	6 x 85 mL	
	Swing out	4 x 250 mL/250 mL conical	
Temp. range (°C)		-	-20--+40
FAST COOL button		-	Yes
Time control		Pulse, timed < 100 min or continuous	Pulse, timed < 10 hr or continuous
RPM/RCF conversion		Yes	Yes
Noise level (dB)		≤60	
Acc/Dec		5/6 steps	
Program memory		100	
Rotor Identification		Automation	
Imbalance cutout		Yes	
Display		Blue LCD	
Safety lid lock		Yes	
Automatic door release at completion		Yes	-
Lid drop protection		Yes	
Radius correction		Yes	-
Power supply (V/Hz)		220/50-60 (110V optional)	
Power requirement		900 VA	2.5 KVA
Dimension (W x D x H, mm)		475 x 561 x 330	655 x 620 x 357
Weight without rotor (Kg)		40	78
CE mark		Yes	
Cat. No.		GZ-1248	GZ-1248R

Multi-purpose, High Speed Centrifuges

1580
1580R

1580



15,000
RPM



21,206 xg
RCF



AIR FLOW
COOLING

1580R



15,000
RPM



25,910 xg
RCF



FAST COOL



MOTORIZED
DOOR LOCK

Common



PULSE



≤ 60dBa



BLUE LCD
DISPLAY



100
PROGRAMS



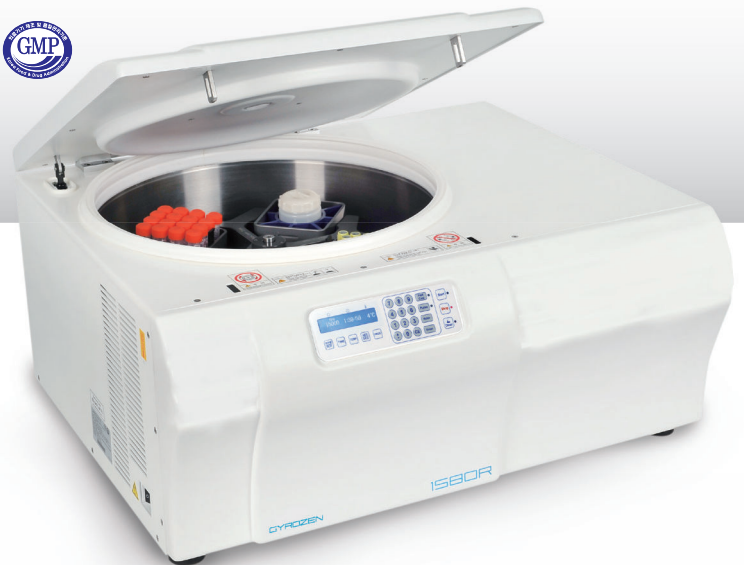
IMBALANCE



5 ACC
6 DEC



ROTOR ID



The 1580 is a compact table-top, non-refrigerated, high volume, high speed centrifuge giving a maximum of 21,206 xg, with a capacity of 80 x 15 ml tubes or 4 x 750 ml containers.

The 1580R is a compact table-top, refrigerated high speed and high volume centrifuge, giving a maximum of 25,910xg, with a capacity of 80 x 15 ml tubes or 4 x 750 ml containers.

- | Very intuitive LCD display control
- | Automatic rotor identification for safety and easy operation
- | "Pulse" key for quick runs
- | Automatic RPM/RCF conversion
- | 5 acceleration and 6 deceleration ramps
- | Program memory for up to 100 programs
- | Automatic recognition and alarms for imbalance, over-speed, and over-heat
- | Aerosol tight bioseal buckets prevents contamination and ensures safety
- | Diverse range of rotors, buckets, and tube adaptors available

| Applications

Ideal high speed centrifuges for general laboratory applications, including biological sample separations of cellular materials, RNA/DNA, peptides, bloods, urine, sperm etc.

GYROZEN

Rotors Overview

<p>GRF-G-m2.0-24</p>  <p>24 x 2.0 ml 15,000/21,206 (12,000/13,572)</p>	<p>GRF-G-m2.0-30</p>  <p>30 x 2.0 ml 14,000/21,124 (12,000/15,520)</p>	<p>GRA-G-15-24</p> <p>GLB-15-FA</p>  <p>24 x 15 ml 4,000/3,134</p>	<p>GRF-G-15-24</p> <p>only for 1580R</p>  <p>24 x 15 ml 8,000/8,872</p>	<p>GRF-G-50-8</p>  <p>8 x 50 ml 15,000/25,910 (12,000/16,582)</p>	<p>GRF-G-85-6</p>  <p>6 x 85 ml 12,000/17,709 (10,000/12,298)</p>	<p>GRF-G-250-6</p> <p>only for 1580R</p>  <p>6 x (250 & 15 ml) 8,000/10,160 (15 ml: 9,395)</p>					
<p>GRS-G-100-6</p> <p>GLB-b100-100</p>  <p>6 x 100 ml 4,000/3,105</p>		<p>GRS-G-100-6</p> <p>GLB-10-8-100</p>  <p>6 x 8 x 10 ml 4,000/3,161</p>		<p>GRS-G-c250-4</p> <p>GLB-c250-c250</p>  <p>4 x 250 ml 5,000/5,394</p>	<p>GRS-G-c250-4</p> <p>GLB-60-c250</p>  <p>4 x 60 ml 5,000/5,394</p>	<p>GRS-G-c250-4</p> <p>GLB-a20/10-c250</p>  <p>4 x 2 x (20 & 10 ml) 5,000/4,752(20) 5,000/4,472(10)</p>	<p>GRS-G-r250-4</p> <p>GLB-r250-r250</p>  <p>4 x 250 ml 4,000/3,134</p>		<p>GRS-G-r250-4</p> <p>GLP-mw-r250</p>  <p>4 x 4 MTPs 4,000/2,737</p>		
<p>GRS-G-750-4</p> <p>GLB-750-750</p>  <p>4 x 750 ml 4,000/3,667</p>				<p>GRS-G-750-4</p> <p>GLB-b750-750</p>  <p>4 x 750 ml 4,000/3,667</p>	<p>GRS-G-750-4</p> <p>GLB-500-750</p>  <p>4 x 500 ml 4,000/3,900</p>	<p>GRS-G-750-4</p> <p>GLP-mw-750</p>  <p>4 x 4 MTPs 4,000/3,068</p>	<p>GRS-G-r750-4</p> <p>GLB-r750-r750</p>  <p>4 x 250 ml 3,600/2,898</p>			<p>GRS-G-r750-4</p> <p>GLB-500-r750</p>  <p>4 x 500 ml 3,600/3,159</p>	<p>GRS-G-r750-4</p> <p>GLP-mw-r750</p>  <p>4 x 4 MTPs 3,600/2,485</p>

Technical Specifications

		1580	1580R
Max. RPM/RCF	Fixed angle	15,000/21,206 xg	15,000/25,910 xg
	Swing out	5,000/5,394 xg	5,000/5,394 xg
Max. capacity	Fixed angle	6 x 85 ml	
	Swing out	4 x 750 ml	
Temp. range (°C)		-	-20~+40
FAST COOL button		-	Yes
Time control		Pulse, timed < 100 min or continuous	Pulse, timed < 10 hr or continuous
RPM/RCF conversion		Yes	
Noise level (dB)		≤60	
Acc/Dec		5/6 steps	
Program memory		100	
Rotor Identification		Automation	
Imbalance cutout		Yes	
Display		Blue LCD	
Safety lid lock		Yes	
Automatic door release at completion		Yes	-
Lid drop protection		Yes	
Radius correction		Yes	-
Power supply (V/Hz)		220/50-60 (110V optional)	
Power requirement		1.5 KVA	2.5 KVA
Dimension (W x D x H, mm)		540 x 650 x 380	770 x 650 x 390
Weight without rotor (Kg)		57	93
CE mark		Yes	
Cat. No.		GZ-1580	GZ-1580R

Swing Rotor, GRS-G-100-6

6 loadings
 ↻ 90°



Bioseal Bucket with O-ring

Bioseal 100 mL Bucket GLB-b100-100
Bucket bore (Φ x L, mm) : 47 x 99
Radius(mm) : 173.6
Max. RPM : 4,000
Max. RCF(g-force) : 3,105
Max height for tube fit(mm) : 117(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										
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/6)	6/36	5/30	5/30	3/18	3/18	1/6	1/6	1/6	1/6	1/6
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 x 96.4	44 x 106.4

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

Vacuotainer Bucket



Vacuotainer 100 mL Bucket GLB-10-8-100	
Bucket capacity : 8/ea	
Bucket bore (Φ x L, mm) : 16 x 89	
Radius(mm) : 173.6	
Max. RPM : 4,000	
Max. RCF(g-force) : 3,161	
Max height for tube fit(mm) : 114	
Tube	
Tube capacity(mL)	10
Bucket capacity (ea/6)	8/48

Swing Rotor, GRS-G-r250-4

4 loadings
 P-90°



Rectangular 250 ml Bucket GLB-r250-r250
Bucket bore (wxdxh, mm) : 86 x 70.3 x 98.5
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		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



Microplate Holder GLP-mw-r250
Holder dimension (wxdxh, mm) : 88 x 128.5 x 80
Radius(mm) : 153
Max. RPM : 4,000
Max. RCF(g-force) : 2,737

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

Swing Rotor, GRS-G-c250-4

4 loadings
 ↗ 90°



Conical 250 mL Bucket GLB-c250-c250
Bucket bore (Φ x L, mm) : 60.5 x 130.2
Radius(mm) : 193
Max. RPM : 5,000
Max. RCF(g-force) : 5,394
Max height for tube fit(mm) : 147

Tube	
Tube capacity(mL)	250 mL conical



60 mL Syringe Bucket GLB-60-c250
Bucket bore (Φ x L, mm) : 31.5 x 130.2
Radius(mm) : 193
Max. RPM : 5,000
Max. RCF(g-force) : 5,394
Max height for tube fit(mm) : 162

Tube	
Tube capacity(mL)	60 mL syringe



Dual Syringe Bucket GLB-d20/10-c250
Bucket bore (Φ x L, mm) : 22.5 x 100(20) / 17 x 90(10)
Max. RPM : 5,000
Max. RCF(g-force, (10/20)) : 4,472 / 4,752
Max height for tube fit(mm) : 120

Tube	
Tube capacity(mL)	10 / 20 mL syringe
Radius(mm)	160/170

Swing Rotor, GRS-G-750-4

4 loadings
 ▷ 90°



Bioseal



Bioseal Bucket

Bioseal Round 750 ml Bucket GLB-b750-750 / GLB-750-750
Bucket bore(ΦxL, mm) : 99 x 101.5
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)

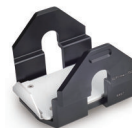
Tube								
Tube capacity(ml)	3	5	10	15	15 ml conical	50	50 ml conical	250
Tube rack								
Cat. No.	GAM-5-24(750)		GAM-10-21(750)	GAM-15-19(750)	GAM-c15-14(750)	GAM-50-7(750)	GAM-c50-5(750)	GAS-250(750)
Rack capacity(ea/4)	24/96		21/84	19/76	14/56	7/28	5/20	1/4
Hole dimension (Φx L, mm)	13 x 58	13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



Round 500 ml Bucket 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) : 167

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



Microplate Holder 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-G-r750-4

4 loadings
 P-90°



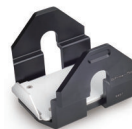
Rectangular 750 ml Bucket GLB-r750-r750
Bucket bore (wxdxh, mm) : 99 x 99 x 98
Radius(mm) : 200
Max. RPM : 3,600
Max. RCF(g-force) : 2,898
Max height for tube fit(mm) : 135

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		62.5 x 87



Round 500 ml Bucket GLB-500-750
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) : 167

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



Microplate Holder GLP-mw-r750
Holder dimension (wxdxh, 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

Angle Rotor, GRA-G-15-24

24 x 15 mL










∠ 45°

Hole diameter (mm) : 18

Max height for tube fit (mm) : 135 (125 for conical)




Stainless Steel 15 mL Sleeve GLB-15-FA
Sleeve bore (Φ x h, mm) : 18 x 97.5
Radius (mm) : 175.2
Max. RPM : 4,000
Max. RCF (g-force) : 3,134

Tube						
Tube capacity (mL)	3	4	5	10	15	15 mL conical
Adaptor				None	None	None
Cat. No.	GAS-3(15)	GAS-4(15)	GAS-5(15)	-	-	-
Adaptor bore (Φ x L, mm)	13.5 x 61	13.5 x 65	13.5 x 85	-	-	-
Radius (mm)	155.2	158.2	167.2	174.5	175.5	171.5
Max. RPM	4,000					
Max. RCF (g-force)	2,776	2,830	2,990	3,121	3,134	3,068

Fixed Angle Rotor, GRF-G-15-24

24 x 15 mL
 ∠ 30°
 Hole diameter (mm) : 17.5
 Max height for tube fit (mm) : 120
 Supplied with aerosol tight O-ring

Only for 1580R







Tube	
Tube capacity(mL)	15
Radius(mm)	124
Max. RPM	8,000
Max. RCF(g-force)	8,872



Fixed Angle Rotor, GRF-G-50-8

8 x 50 mL
 ∠ 30°
 Hole diameter (mm) : 29.5
 Max height for tube fit (mm) : 127
 Supplied with aerosol tight O-ring



Tube				
Tube capacity(mL)	10	15	15 mL conical	50
Adaptor				None
Cat. No.	GAS-15(50)		GAS-c15(50)	-
Adaptor bore (Φ x L, mm)	17 x 94		17 x 105	-
Radius(mm)	92.5	93.5	96	103
Max. RPM (1580R)	15,000			
Max. RCF(g-force)(1580R)	23,268	23,520	24,149	25,910
Max. RPM (1248R/1236R/1580)	12,000			
Max. RCF(g-force) (1248R/1236R/1580)	10,342	12,453	10,733	12,298

Fixed Angle Rotor, GRF-G-85-6

6 x 85 mL
 ∠ 34°
 Hole diameter (mm) : 38.5
 Max height for tube fit (mm) : 122



Tube						
Tube capacity(mL)	10	15	15 mL conical	50	50 mL conical	85
Adaptor						None
Cat. No.	GAS-15(85)		GAS-c15(85)	GAS-50(85)	GAS-c50(85)	-
Adaptor bore (Φ x L, mm)	17 x 94		17 x 100	29 x 95	29.9 x 98	-
Radius(mm)	102	103	101	104	102	110
Max. RPM (1580R)	12,000					
Max. RPF (g-force) (1580R)	16,421	16,582	16,260	16,743	16,421	17,709
Max. RPM (1248/1248R/1236R/1580)	10,000					
Max. RPF (g-force) (1248/1248R/1236R/1580)	11,404	11,515	11,292	11,627	11,404	12,298

Fixed Angle Rotor, GRF-G-250-6

6 x (250 & 15 mL)
 ∠ 25°
 Hole diameter (250/15)(mm) : 62/17
 Max height for tube fit (250/15)(mm) : 125/110

Only for 1580R



Tube		
Tube capacity(mL)	15	250
Radius(mm)	131.3	134
Max. RPM	8,000	
Max. RCF (g-force)	9,395	10,160

Fixed Angle Rotor, GRF-G-m2.0-24






24 x 1.5/2.0 mL
 ∠ 45°
 Hole diameter (mm) : 11.1
 Max height for tube fit (mm) : 56
 Supplied with aerosol tight O-ring



Fixed Angle Rotor, GRF-G-m2.0-30

30 x 1.5/2.0 mL
 ∠ 45°
 Hole diameter (mm) : 11.1
 Max height for tube fit (mm) : 56
 Supplied with aerosol tight O-ring



Tube			
Tube capacity(mL)	0.2	0.5	1.5/2.0
Adaptor			None
Cat. No.	GAS-m0.2(2)	GAS-m0.5(2)	-
Adaptor bore (Φ x L, mm)	6.5 x 23	8 x 31	-
Radius(mm) (24/30)	67/79	73/86	84.3/96.4
Max. RPM (24/30) (1580R)	15,000/14,000		
Max. RCF(g-force) (24/30) (1580R)	16,854/17,311	18,363/18,845	21,206/22,124
Max. RPM (24/30) (1580)	15,000/12,000		
Max. RCF(g-force) (24/30) (1580)	16,854/12,718	18,363/13,385	21,206/15,520
Max. RPM (24/30) (1248/1248R/1236R)	12,000		
Max. RCF(g-force) (24/30) (1248/1248R/1236R)	10,786/12,718	11,752/13,845	13,572/15,520