

1736R, 2236R

Floor Standing, High-speed Centrifuges



(2236R)

Features

- Optimized for fast harvesting in bioprocessing and industrial applications with high volume processing up to 6/ 3 liters.
- High RCF centrifugation of 54,111 / 32,310 xg (2236R / 1736R) widely used for viral and exosome research
- Fast cool function, Pre-cooling to 4°C for temperature-sensitive samples.
- Instrument lock/unlock by password control and protocol management by user ID is ideal for core lab facility or multi-user environment. (2236R only)
- 7" LCD Touch Screen with simultaneous display of all the parameters of set and actual values. (2236R only)
- Multi step run up to 5 combined protocols for complicated experiments. (2236R only)

Technical Specifications

	1736R	2236R
Max. RPM/PCF for Fixed Angle	17,000 rpm / 32,310 xg	22,000 rpm / 54,111 xg
Max. RPM/PCF for Swing-out	5,000 rpm / 5,394 xg	5,000 rpm / 5,394 xg
Max. Capacity for Fixed Angle	6 x 500 mL, 30 x 1.5/2.0 mL	6 x 1,000 mL, 30 x 1.5/2.0 mL
Max. Capacity for Swing-out	4 x 250 mL, 4 x 12 x 15 mL, 4 x 4 MTPs	4 x 250 mL, 4 x 12 x 15 mL, 4 x 4 MTPs
Temp. range (°C)	-20°C to 40°C	-20°C to 40°C
FAST cool button	Yes	Yes
Time control	Pulse, timed <10 hr or continuous	Pulse, timed <100 hr or continuous
Time counting range	Selectable, at set speed or from starting	Selectable, at set speed or from starting
Noise level (dependent on rotor)	≤56 dB	≤56 dB
RCF/RPM conversion	Yes	Yes
ACC/DEC Ramps	9/10	9/10
Program Memory	100	100
Power Supply	AC 230V, 50Hz (AC 220-230V, 60/50Hz; 110V optional)	AC 230V, 50Hz (AC 220-230V, 60/50Hz; 110V optional)
Power Requirement	2.5 kVA	2.5 kVA
Dimension (W x D x H)	473 x 620 x 830 mm	824 x 634 x 1,049 mm
Net Weight	110 kg	240 kg
CE MARK	Yes	Yes
Cat No.	GZ-1736R	GZ-2236R

Fixed Angle Rotor, GRF-L-1000-6

- Capacity : 6 x 1,000 mL
- Max. RPM : 7,000
- Max. RCF : 10,825 xg
- Only for 2236R



Tube type (mL)	Max. RCF (xg)	Adaptor Cat. No.
500	10,047	GAS-500(1000)
250	8,990	GAS-250(1000)

Fixed Angle Rotor, GRF-L-1000-4

- Capacity : 4 x 1,000 mL
- Max. RPM : 8,000
- Max. RCF : 12,071 xg
- Only for 2236R



Tube type (mL)	Max. RCF (xg)	Adaptor Cat. No.
500	11,055	GAS-500(1000)
250	9,674	GAS-250(1000)

Fixed Angle Rotor, GRF-L-500-6

- Capacity : 6 x 500 mL
- 1736R Max. RPM / RCF : 8,000 / 11,305 xg
- 2236R Max. RPM / RCF : 10,000 / 17,664 xg



Tube type (mL)	Max. RCF (xg)		Adaptor Cat. No.
	1736R	2236R	
250	9,869	15,462	GAS-250(500)

Fixed Angle Rotor, GRF-L-250-6

- Capacity : 6 x 250 mL

- 1736R Max. RPM / RCF : 10,000 / 14,981 xg

- 2236R Max. RPM / RCF : 13,000 / 25,318 xg



Tube type (mL)	Max. capacity per rotor	Max. RCF (xg)		Adaptor Cat. No.
		1736R	2236R	
100	6	13,416	22,673	GAS-100(250)
85	6	13,192	22,295	GAS-85(250)
50 conical (Skirt)	6	13,472	22,768	GAS-sc50(250)
50 conical	6	12,801	21,634	GAS-c50(250)
50	12	12,913	21,823	GAM-50-2(250)
30	18	14,310	24,185	GAM-30-3(250)
25 conical	6	12,857	21,728	GAS-c25(250)
15 conical	24	14,143	23,901	GAM-c15-4 (250)
15	24	14,422	24,374	GAM-15-4(250)
Φ16 x 100 mm VT	42	14,646	24,751	GAM-10-7(250)
Φ13 x 75 ~ 100 mm VT	48	14,646	24,751	GAM-7-8(250)
5	16	14,143	23,901	GAM-c5-4(250)
1.5 / 2.0	54	14,422	24,374	GAM-m2.0-9(250)

Fixed Angle Rotor, GRF-L-85-6

- Capacity : 6 x 85 mL

- 1736R Max. RPM / RCF : 15,000 / 25,029 xg

- 2236R Max. RPM / RCF : 20,000 / 44,496 xg



Tube type (mL)	Max. RCF (xg)		Adaptor Cat. No.
	1736R	2236R	
50 conical	23,017	40,919	GAS-c50(85)
50	23,520	41,813	GAS-50(85)
30	23,193	41,232	GAS-30(85)
25 conical	20,350	36,178	GAS-c25(85)
15 conical	22,765	40,472	GAS-c15(85)
15	23,268	41,366	GAS-15(85)

Fixed Angle Rotor, GRF-L-50-8

- Capacity : 8 x 50 mL

- 1736R Max. RPM / RCF : 15,000 / 25,910 xg

- 2236R Max. RPM / RCF : 20,000 / 46,062 xg



Tube type (mL)	Max. RCF (xg)		Adaptor Cat. No.
	1736R	2236R	
30	24,275	43,155	GAS-30(50)
25 conical	20,376	36,223	GAS-c25(50)
15 conical	24,149	42,931	GAS-c15(50)
15	23,520	41,813	GAS-15(50)

Fixed Angle Rotor, GRF-L-50-6

- Capacity : 6 x 50 mL

- 1736R Max. RPM / RCF : 17,000 / 32,310 xg
- 2236R Max. RPM / RCF : 22,000 / 54,111 xg



Tube type (mL)	Max. RCF (xg)		Adaptor Cat. No.
	1736R	2236R	
30	31,244	52,326	GAS-30(50)

Fixed Angle Rotor, GRF-L-c50-8

- Capacity : 6 x 50 mL

- 1736R Max. RPM / RCF : 15,000 / 27,671 xg
- 2236R Max. RPM / RCF : 17,000 / 35,541 xg



Tube type (mL)	Max. RCF (xg)		Adaptor Cat. No.
	1736R	2236R	
50	26,991	34,669	GAS-30(c50)
30	26,765	34,378	GAS-c25(c50)
25 conical	23,671	30,404	GAS-c15(c50)
15 conical	26,463	33,990	GAS-15(c50)

Fixed Angle Rotor, GRF-L-c15-12

- Capacity : 12 x 15 mL Conical

- 1736R Max. RPM / RCF : 15,000 / 25,910 xg
- 2236R Max. RPM / RCF : 20,000 / 46,062 xg



Tube type (mL)	Max. RCF (xg)		Adaptor Cat. No.
	1736R	2236R	
5	19,067	33,898	GAS-c5(c15)

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

- Capacity : 30 x 1.5 / 2.0 mL

- 1736R Max. RPM / RCF : 17,000 / 31,147 xg
- 2236R Max. RPM / RCF : 22,000 / 52,163 xg

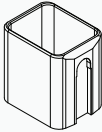


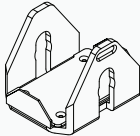
Tube type (mL)	Max. RCF (xg)		Adaptor Cat. No.
	1736R	2236R	
0.5	27,787	46,536	GAS-m0.5(2)
0.2	25,525	42,748	GAS-m0.2(2)

Swing Rotor, GRS-L-r250-4

- Capacity : 4 Buckets
- Max. RPM : 4,000
- Max. RCF : 3,134 xg




	Tube type (mL)	Max. capacity per rotor	Max. RCF (xg)	Adaptor Cat. No.
 <p>250 mL Rectangular Bucket GLB-r250-r250</p> <p>Max. RPM : 4,000 Max. RCF : 3,134 xg Hole bottom type : Flat</p>	250	4	3,080	GAS-250(r250)
	85 + 15	8	3,071	GAM-85-2(r250)
	50 conical (Skirt)	16	3,145	GAM-sc50(r250)
	50 conical	12	3,107	GAM-c50-3(r250)
	25 conical	12	3,107	GAM-c50-3(r250)
	50	16	3,095	GAM-50-4(r250)
	15 conical	36	3,107	GAM-c15-9(r250)
	15	48	3,095	GAM-15-12(r250)
	Φ16 x 100 mm VT	48	3,095	GAM-15-12(r250)
	14	24	3,095	GAM-15-12(r250)
	Φ 13 x 100 mm VT	48	3,095	GAM-5-12(r250)
	Φ 13 x 75 mm VT	48	3,095	GAM-5-12(r250)
	1.5 / 2.0 mL	80	3,045	GAM-m2.0-20(r250)

 <p>Microplate Holder Bucket GLP-mw-r250</p>	<p>Max. capacity per rotor: 16 x MTP / 4 x DWP Max. RCF : 2,737 xg Hole bottom type : Plate</p>
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Swing Rotor, GRS-L-250-4

- Capacity : 4 Buckets
- Max. RPM : 5,000
- Max. RCF : 5,394 xg



	Tube type (mL)	Max. capacity per rotor	Max. RCF (xg)	Adaptor Cat. No.
 <p>250 mL Round Bucket GLB-250-250</p> <p>Max. RPM : 5,000 Max. RCF : 5,394 xg Hole bottom type : Flat</p>	250	4	5,394	-
	250 conical	4	5,352	GAS-c250(250)
	100	4	5,255	GAS-100(250)
	85	4	5,255	GAS-85(250)
	50 conical (Skirted)	4	5,255	GAS-sc50-4(250)
	50 conical	4	5,394	GAS-c50(250)
	50	8	5,255	GAM-50-2(250)
	30	12	5,255	GAM-30-3(250)
	25 conical	4	5,394	GAS-c25(250)
	15 conical	16	5,338	GAM-c15-4 (250)
	15	16	5,311	GAM-15-4(250)
	Φ16 x 100 mm VT	16	5,311	GAM-10-7(250)
	Φ13 x 75~100 mm VT	32	5,311	GAM-7-8(250)
	5	16	5,338	GAM-c5-4(250)
	1.5 / 2.0	36	5,311	GAM-m2.0-9(250)