

1736R



GYROZEN 1736R is a multi-purpose, large capacity and floor-standing centrifuge that can process samples at speeds up to 17,000 rpm (32,310 x g) and so enables efficient centrifugation in research and laboratory experiments. PCR tubes and micro tubes can be run at 12,000 rpm (10,803 x g) and 17,000 rpm (31,147 x g) respectively and up to six of 500 ml capacity can go to 8,000 rpm (11,305 x g). Even though the most common usage of this model comes with fixed angle rotors for high speed, the swing-out rotor with a capacity of four 250 ml extends the flexibility of this multi-purpose centrifuge. 1736R operates very quietly and fits well in a very crowded laboratory with its compact footprint.

► Applications

- Ideal for all kinds of basic and analytical experiments such as phenol extraction, NA preparation, cell harvest, precipitation, density gradient separation, etc

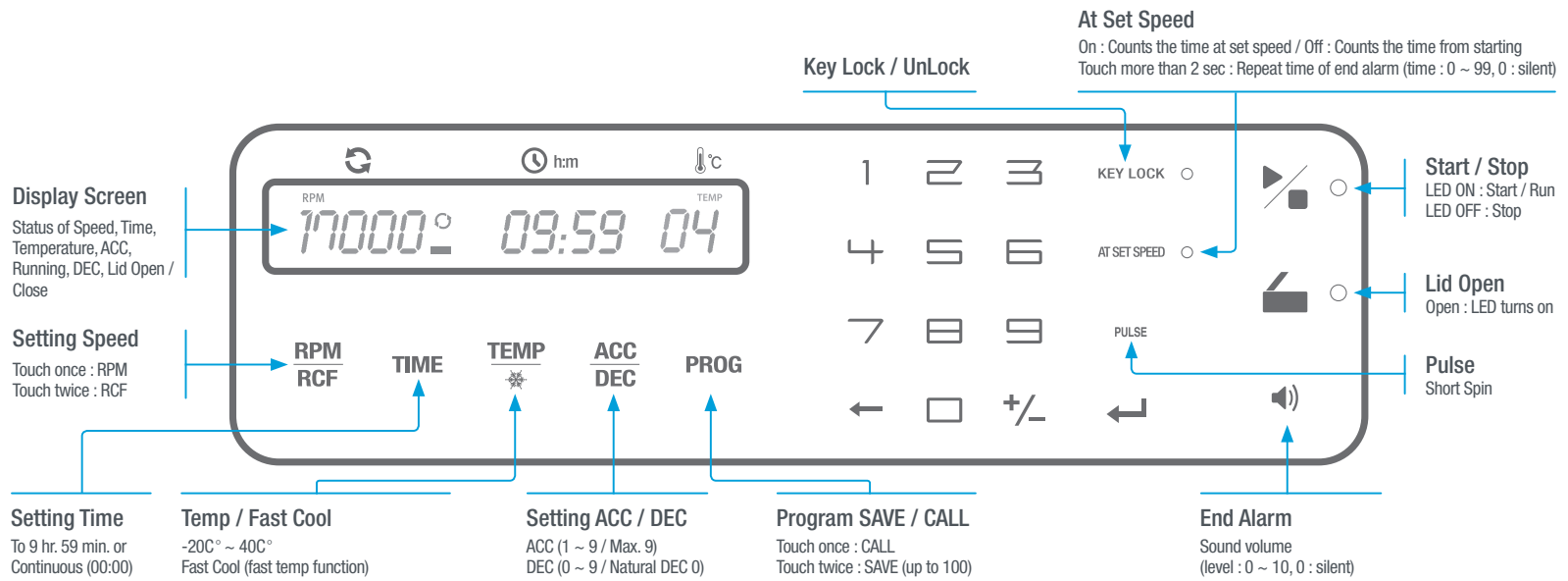
► Technical Specifications

Max. RPM/RCF	Fixed angle	17,000 / 32,310 xg	Program memory	100
	Swing-out	4,000 / 3,134 xg	Display	Blue LCD
Max. capacity	Fixed angle	6 x 500 ml, 30 x 1.5/2.0 ml	Automatic rotor identification	Yes
	Swing-out	4 x 250 ml, 48 x 15 ml, 16 MTPs	Imbalance cut-off	Yes
Temp. range (°C)		-20 to +40	Safety lid lock	Yes
FAST cool button		Yes	Lid drop protection	Yes
Time control		Pulse, timed < 10 hr or continuous	Motorized lid open & close	Yes
Time counting modes		Selectable, at set speed or from starting	Chamber material	SUS304
RPM/RCF conversion		Yes	Power supply	230 V, 50 Hz (AC 220-230 V, 50/60 Hz; 110 V optional)
Noise level (dB)		~ 60	Power requirement (kVA)	2.5
ACC/DEC		9 / 10 steps	Dimension (W x D x H, mm)	473 x 610 x 830
Parameters on display window		RPM (RCF), Oper Status, Lid Open/Close, Hr:Min, Temp, ACC, DEC	Weight without rotor (kg)	110
			CE mark	Yes
			Cat. No.	GZ-1736R

► Features

- For up to 17,000 rpm (32,310 x g) with 6 x 50 ml tubes and 8,000 rpm (11,305 x g) with 6 x 500 ml tubes
- With motorized lid mechanics, only a gentle touch is sufficient to close and open the lid.
- Lid drop protection design allows easiness and safety when loading or unloading samples.
- A large assortment of rotors, buckets and adaptors support diverse applications doable with one instrument.
- Fast cooling function to 4°C in 5 minutes for fast startup of cooled samples
- The compressor-off function when lid is open minimizes unnecessary cooling and frosting.
- Intuitive control interface with numeric input buttons allows easy setting and editing of running conditions.
- Selectable time mode of “at set SPEED” for counting running time only when reached the set speed
- A separate "PULSE" key for quick spin
- Parameters can be changed during operation.
- Key lock function helps the set parameters secured during operation.

▶ Control Panel



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

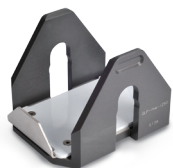
4 loadings
∠ 90°



Rectangular 250 ml Bucket GLB-r250-r250

Bucket bore (w x d x h, 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) : 130

Tube											
Tube capacity (ml)	1.5/2.0	3	5	10	15	15 ml conical	50	50 ml conical	15	85	250
Tube rack											
Cat. No.	GAM-m2.0-20 (r250)	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)	20/80	12/48		12/48		9/36	4/16	3/12	2/8		1/4
Hole dimension (Φ x L, mm)	11.3 x 39	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 86.5	38.5 x 86.5	62.5 x 87



Microplate Holder GLP-mw-r250



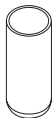
Holder (w x d x h, mm)
: 88 x 128.5 x 80
Radius (mm) : 153
Max.RPM : 4,000
Max.RCF (g-force) : 2,737

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



Fixed Angle Rotor, GRF-L-500-6



6 x 500 ml
 \angle 25°
 Hole diameter (mm) : 70
 Max. height for tube fit (mm) : 170

Tube		
Tube capacity (ml)	250	500
Adaptor		None
Cat No.	GAS-250(500)	-
Adaptor bore (ΦxL, mm)	69 x 100	-
Radius (mm)	138.3	158
Max.RPM	8,000	
Max.RCF (g-force)	9,896	11,305



Fixed Angle Rotor, GRF-L-250-6











6 x 250 ml (6 x 15 ml)
 \angle 25°
 Hole diameter (250/15) (mm) : 62/17
 Max. height for tube fit (250/15) (mm)
 : 130/120

Tube		
Tube capacity (ml)	15	250
Radius (mm)	131.3	134
Max.RPM	10,000	
Max.RCF (g-force)	14,679	14,981



Fixed Angle Rotor, GRF-L-85-6







6 x 85 ml
 \angle 25°
 Hole diameter (mm) : 38.3
 Max. height for tube fit (mm) : 125

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 (ΦxL, mm)	17 x 94		29 x 95	29.5 x 98		-
Radius (mm)	91.5	92.5	90.5	93.5	91.5	99.5
Max.RPM	15,000					
Max.RCF (g-force)	23,017	23,268	22,765	23,520	23,017	25,029



Fixed Angle Rotor, GRF-L-50-8


8 x 50 ml
 $\angle 30^\circ$
 Hole diameter (mm) : 29.5
 Max. height for tube fit (mm) : 120

Tube				
Tube capacity (ml)	10	15	15 ml conical	50
Adaptor				None
Cat. No.	GAS-15(50)		GAS-c15(50)	-
Adaptor bore ($\Phi \times L$, mm)	17 x 94		17 x 105	-
Radius (mm)	92.5	93.5	96	103
Max.RPM	15,000			
Max.RCF (g-force)	23,268	23,520	24,149	25,910



Fixed Angle Rotor, GRF-L-50-6




6 x 50 ml
 $\angle 30^\circ$
 Hole diameter (mm) : 29.5
 Max. height for tube fit (mm) : 120

Tube	
Tube capacity (ml)	50
Adaptor	None
Cat. No.	-
Adaptor bore ($\Phi \times L$, mm)	-
Radius (mm)	100
Max.RPM	17,000
Max.RCF (g-force)	32,310



Fixed Angle Rotor, GRF-L-c50-6

6 x 50 ml conical
 $\angle 25^\circ$
 Hole diameter (mm) : 29.5
 Max. height for tube fit (mm) : 125



Tube		
Tube capacity (ml)	15 ml conical	50 ml conical
Adaptor		None
Cat. No.	GAS-c15(c50)	-
Adaptor bore ($\Phi \times L$, mm)	17 x 105	-
Radius (mm)	93.6	98.4
Max.RPM	15,000	
Max.RCF (g-force)	23,545	24,753

1736R



Fixed Angle Rotor, GRF-L-15-12


12 x 15 ml
 \angle 30°
 Hole diameter (mm) : 17
 Max. height for tube fit (mm) : 125

Tube		
Tube capacity (ml)	10	15
Radius (mm)	100	
Max.RPM	17,000	
Max.RCF (g-force)	32,310	



Fixed Angle Rotor, GRF-L-c15-12






12 x 15 ml conical
 \angle 25°
 Hole diameter (mm) : 17
 Max. height for tube fit (mm) : 125

Tube	
Tube capacity(ml)	15 ml conical
Radius(mm)	103
Max.RPM	15,000
Max.RCF(g-force)	25,910



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



30 x 1.5/2.0 ml
 \angle 45°
 Hole diameter (mm) : 11.1
 Max. height for tube fit (mm) : 52

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 (ΦxL, mm)	6.5 x 23	8 x 31	-
Radius (mm)	79	86	96.4
Max.RPM	17,000		
Max.RCF (g-force)	25,525	27,787	31,147



Fixed Angle Rotor, GRF-L-s0.2-64

8 x 8-tube PCR strips, 64 x 0.2 ml
 \angle 45°
 Hole diameter (mm) : 6.5
 Max.height for tube fit(mm) : 16

Tube		
Tube capacity (ml)	0.2	8-tube PCR strip
Radius (mm)	1st : 58.6 / 2nd : 67.1	
Max. RPM	12,000	
Max. RCF (g-force)	1st : 9,434 / 2nd : 10,803	