

Mini

Personal Micro Centrifuge

# mini

## Personal Micro Centrifuge



- | 12 microtubes or 10 cryotubes can be run up to 13,500 rpm (12,300 xg).
- | Compact design built to accommodate PCR tubes, microtubes and cryotubes (0.2 to 2.0 ml)
- | Patented air-cooling to minimize noise and heat generation
- | A separate "PULSE" key for quick spin
- | Very quiet operation at less than 56 dB allows for comfortable laboratory environment.
- | Supplied with autoclavable 12-place fixed angle micro-rotor, snap-fit plastic rotor lid and 12 adaptors for 0.2 ml PCR tubes



### Applications

Molecular works of cell collection, phenol extraction, simple spin-down, etc.

### Technical Specifications

Max. RPM/RCF	13,500 / 12,300 xg	Safety lid lock	Yes
Max. capacity	12 x 1.5/2.0 ml, 4 x 8-tube PCR strips	Automatic lid release at completion	Yes
Time control	Pulse or timed ≤ 30 min	Power supply (V/Hz)	220/50~60 (110V optional)
RPM/RCF conversion	Yes	Power requirement (VA)	110
Noise level (dB)	≤ 56	Dimension (W x D x H, mm)	208 x 245 x 145
ACC / DEC (sec)	≤ 12 / ≤ 16	Weight without rotor (kg)	4.4
Parameters on display window	RPM (RCF), Oper Status, Lid Open/Close, Min(sec)	CE mark	Yes
Display	Blue LCD	Cat. No.	GZ-1312



**Fixed Angle Rotor, GRF-m2.0-12**

12 x 1.5/2.0 ml  
 ∟ 45°  
 Hole diameter (mm) : 11.1  
 Max. height for tube fit (mm) : 42

Tube			
Tube capacity (ml)	0.2	0.5	1.5/2.0
Adaptor			None
Cat. No.	<b>GAS-m0.2(2)</b>	<b>GAS-m0.5(2)</b>	-
Adaptor bore (Φx L, mm)	6.5 x 23	8 x 31	-
Radius (mm)	43.5	50.5	60.4
Max. RPM	13,500		
Max. RCF (g-force)	8,863	10,290	12,300



**Fixed Angle Rotor, GRF-m1.8-10**

10 x 1.8 ml Cryotube  
 ∟ 45°  
 Hole diameter (mm) : 12.8  
 Max. height for tube fit (mm) : 50

Tube			
Tube capacity (ml)	0.2	0.5	1.8 ml Cryotube
Adaptor			None
Cat. No.	<b>GAS-m0.2(2)</b>	<b>GAS-m0.5(2)</b>	-
Adaptor bore (Φx L, mm)	6.5 x 23	8 x 31	-
Radius (mm)	43.5	50.5	60.4
Max. RPM	13,500		
Max. RCF (g-force)	8,863	10,290	12,300



**PCR Rotor, GRA-s0.2-32**

4 x 8-tube PCR strips, 32 x 0.2 ml  
 ∟ 45°  
 Hole diameter (mm) : 6.5

Tube		
Tube capacity (ml)	0.2	8-tube PCR strip
Radius (mm)	1st : 38.6 / 2nd : 46	
Max. RPM	6,000	
Max. RCF (g-force)	1st : 1,554 / 2nd : 1,850	

1524

High-Speed Micro Centrifuge

1524

High-Speed Micro Centrifuge



- | Compact design built to accommodate PCR tubes, microtubes and cryotubes (0.2 to 2.0 ml)
- | A separate "PULSE" key for quick spin
- | Selectable time mode of "at set SPEED" for counting running time only when reached the set speed
- | Parameters can be changed during operation.
- | Key lock function helps the set parameters secured during operation.
- | Autoclavable and corrosion-free rotors ensure safety and long life.



- | **Applications** Molecular works of cell collection, phenol extraction, simple spin-down, filter tube separation, etc.

### Technical Specifications

Max. RPM/RCF	15,000 / 21,206 xg	Imbalance cut-off	Yes
Max. capacity	24 x 1.5/2.0 ml, 4 x 8-tube PCR strips	Safety lid lock	Yes
Time control	Pulse, timed < 100 min or continuous	Lid drop protection	Yes
Time counting modes	Selectable, at set speed or from starting	Automatic lid release at completion	Yes
RPM/RCF conversion	Yes	Power supply (V/Hz)	220/50~60 (110V optional)
Noise level (dB)	≤ 60	Power requirement (VA)	440
ACC/DEC (step or time)	9/10 steps (15/15 sec)	Dimension (W x D x H, mm)	249 x 368 x 240
Program memory	100	Weight without rotor (kg)	18
Parameters on display window	RPM (RCF), Oper Status, Lid Open/Close, Min:Sec, ACC, DEC	CE mark	Yes
Display	Blue LCD	Cat. No.	GZ-1524



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

24 x 1.5/2.0 ml  
 ∟ 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.	<b>GAS-m0.2(2)</b>	<b>GAS-m0.5(2)</b>	-
Adaptor bore (Φ x L, mm)	6.5 x 23	8 x 31	-
Radius (mm)	67	73	84.3
Max. RPM	15,000		
Max. RCF (g-force)	16,854	18,363	21,206



**Fixed Angle Rotor, GRF-m2.0-18**

18 x 1.5/2.0 ml Filter tube  
 ∟ 45°  
 Hole diameter (mm) : 11.1  
 Max. height for tube fit (mm) : 65

Tube				
Tube capacity (ml)	0.2	0.5	1.5/2.0	2.0 ml filter tube
Adaptor			None	None
Cat. No.	<b>GAS-m0.2(2)</b>	<b>GAS-m0.5(2)</b>	-	-
Adaptor bore (Φ x L, mm)	6.5 x 23	8 x 31	-	-
Radius (mm)	57.8	63.8	75.1	64.2
Max. RPM	15,000			
Max. RCF (g-force)	14,540	16,049	18,891	16,150



**PCR Rotor, GRF-s0.2-32**

4 x 8-tube PCR strips, 32 x 0.2 ml  
 ∟ 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)	56.4	
Max. RPM	15,000	
Max. RCF (g-force)	14,187	

1536

High-Speed Micro Centrifuge

1536

High-Speed Micro Centrifuge



- Compact design built to accommodate PCR tubes, microtubes and cryotubes (0.2 to 2.0 ml)
- Soft touch control panel and trendy touch wheel is highly sensitive and intuitive to input parameters.
- 3.5" LCD window with simultaneous display of all operational parameters of set and actual figures
- 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.
- Lid drop protection design allows easiness and safety when loading or unloading sample.
- With motorized lid mechanics, only a gentle touch is sufficient to close and open the lid.



**Applications** Molecular works of cell collection, phenol extraction, simple spin-down, filter tube separation, etc.

### Technical Specifications

Max. RPM/RCF	15,000 / 21,206 xg	Imbalance cut-off	Yes
Max. capacity	36 x 1.5/2.0 ml, 4 x 8-tube PCR strips	Safety lid lock	Yes
Time control	Pulse, timed < 99min or continuous	Lid drop protection	Yes
Time counting modes	Selectable, at set speed or from starting	Motorized lid open & close	Yes
RPM/RCF conversion	Yes	Automatic lid release at completion	Yes
Noise level (dB)	≤ 60	Power supply (V/Hz)	220/50~60 (110V optional)
ACC/DEC (step or time)	9 / 10 steps (15 / 15 sec)	Power requirement (VA)	400
Program memory	100	Dimension (W x D x H, mm)	240 x 378 x 240
Parameters on display window	Simultaneous display of all parameters of set and actual figures	Weight without rotor (kg)	11.9
Display	3.5" LCD	CE mark	-
		Cat. No.	GZ-1536



**Fixed Angle Rotor, GRF-m2.0-36**

36 x 1.5/2.0 ml (12 x 0.2 ml and 12 x 2.0 ml filter tube)  
 ∟ 45°  
 Hole diameter (mm) : 11.1  
 Max. height for tube fit (mm) : 52  
 Supplied with aerosol tight O-ring

Tube					
Tube capacity (ml)	0.2	0.5	0.2	1.5/2.0	2.0 ml filter tube
Adaptor			None	None	None
Cat. No.	<b>GAS-m0.2(2)</b>	<b>GAS-m0.5(2)</b>	-	-	-
Adaptor bore (Φ x L, mm)	6.5 x 23	8 x 31	-	-	-
Radius (mm) (inner/outer)	53.5/69	60.5/73	58.2	70.9/84.3	59.1
Max. RPM	15,000				
Max. RCF (g-force) (inner/outer)	13,458/16,854	15,219/18,363	14,640	17,835/21,206	14,867



**Fixed Angle Rotor, GRF-m2.0-24A**

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

Tube			
Tube capacity (ml)	0.2	0.5	1.5/2.0
Adaptor			None
Cat. No.	<b>GAS-m0.2(2)</b>	<b>GAS-m0.5(2)</b>	-
Adaptor bore (Φ x L, mm)	6.5 x 23	8 x 31	-
Radius (mm)	67	73	84.3
Max. RPM	15,000		
Max. RCF (g-force)	16,854	18,363	21,206



**PCR Rotor, GRF-s0.2-32**

4 x 8-tube PCR strips, 32 x 0.2 ml  
 ∟ 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)	56.4	
Max. RPM	15,000	
Max. RCF (g-force)	14,187	

# 1730R

## High-Speed Micro Centrifuge

# 1730R

## Refrigerated, High-Speed Micro Centrifuge



- | The refrigerated microcentrifuge, 1730R is a "must-have" item for molecular and cellular lab works with max speed of 17,000 rpm (27,237 xg).
- | Maximum capacity for 30 microtubes or 18 microfilter tubes or 64 PCR tubes
- | Fast cooling function to 4°C in 5 minutes for fast start up of cooled samples
- | The compressor-off function when lid is open minimizes unnecessary cooling and frosting.
- | Teflon coated rust-free chamber
- | Very quiet operation at less than 56 dB allows for comfortable laboratory environment.
- | 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.



**Applications** Molecular works of ethanol precipitation, phenol extraction, NA preparation, cell collection, spin-down of temperature sensitive reaction mixtures, etc.

### Technical Specifications

Max. RPM/RCF	17,000 / 27,237 xg	Display	Blue LCD
Max. capacity	30 x 1.5/2.0 ml, 8 x 8-tube PCR strips	Automatic rotor identification	Yes
Temp. range (°C)	-20 to +40	Imbalance cut-off	Yes
FAST cool button	Yes	Safety lid lock	Yes
Time control	Pulse, timed < 100 min or continuous	Lid drop protection	Yes
Time counting modes	Selectable, at set speed or from starting	Power supply (V/Hz)	220/50-60 (110V optional)
RPM/RCF conversion	Yes	Power requirement (kVA)	2.0
Noise level (dB)	≤ 56	Dimension (W x D x H, mm)	310 x 620 x 265
ACC/DEC (step or time)	9/10 steps (17/17 sec)	Weight without rotor (kg)	43
Program memory	100	CE mark	Yes
Parameters on display window	RPM (RCF), Oper Status, Lid Open/Close, Min:Sec, Temp, ACC, DEC	Cat. No.	GZ-1730R



**Fixed Angle Rotor, GRF-M-m2.0-24**

24 x 1.5/2.0 ml  
 ∟ 45°  
 Hole diameter (mm) : 11.1  
 Max. height for tube fit (mm) : 52  
 Supplied with aerosol tight O-ring

Tube			
Tube capacity (ml)	0.2	0.5	1.5/2.0
Adaptor			None
Cat. No.	<b>GAS-m0.2(2)</b>	<b>GAS-m0.5(2)</b>	-
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)	17,000/14,000		
Max. RCF (g-force) (24/30)	21,648/17,311	23,910/18,845	27,237/21,124

**Fixed Angle Rotor, GRF-M-m2.0-30**

30 x 1.5/2.0 ml  
 ∟ 45°  
 Hole diameter (mm) : 11.1  
 Max. height for tube fit (mm) : 52  
 Supplied with aerosol tight O-ring



**Fixed Angle Rotor, GRF-M-m2.0-18**

18 x 1.5/2.0 ml filter tube  
 ∟ 45°  
 Hole diameter (mm) : 11.1  
 Max. height for tube fit (mm) : 65  
 Supplied with aerosol tight O-ring

Tube				
Tube capacity (ml)	0.2	0.5	1.5/2.0	2.0 ml filter tube
Adaptor			None	None
Cat. No.	<b>GAS-m0.2(2)</b>	<b>GAS-m0.5(2)</b>	-	-
Adaptor bore (Φ x L, mm)	6.5 x 23	8 x 31	-	-
Radius (mm)	57.8	63.8	75.1	64.2
Max. RPM	15,000			
Max. RCF (g-force)	14,540	16,049	18,891	16,150



**PCR Rotor, GRF-M-s0.2-64**

8 x 8-tube PCR strips, 64 x 0.2 ml  
 ∟ 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)	58.6 (inner) / 67.1 (outer)	
Max. RPM	12,500	
Max. RCF (g-force)	10,237 (inner) / 11,722 (outer)	