

# 1848R Micro Centrifuge



## Features

- Speed : 18,000 rpm (30,536 xg); 13,000 rpm (16,438 xg)
- Capacity / Swing-out : 6 x 4 x 2.0 mL; 2 x 2 MTPs
- Capacity / Fixed Angle : 8 x c50 mL; 20 x 5.0 mL; 48 x 1.5/2.0 mL
- Highly visible display screen, numeric keys with integrated touch buttons for easy operation and quick setting
- "PULSE" key for quick spin
- Fast cooling for cooled samples
- Key lock function












## Technical Specifications

<b>Max. RPM/PCF for Fixed Angle</b>	18,000 rpm / 30,536 xg	<b>ACC/DEC Ramps</b>	9/10
<b>Max. RPM/PCF for Swing-out</b>	13,000 rpm / 16,438 xg	<b>Program Memory</b>	100
<b>Max. Capacity for Fixed Angle</b>	8 x c50 mL, 20 x 5.0 mL, 48 x 2.0 mL	<b>Power Supply</b>	AC 230V, 50Hz (AC 220-230V, 60/50Hz; 110V optional)
<b>Max. Capacity for Swing-out</b>	6 x 4 x 2.0 mL, 2 x 2 MTPs	<b>Power Requirement</b>	2.0 kVA
<b>Temp. Range (°C)</b>	-12°C to 40°C	<b>Dimension (W x D x H)</b>	380 x 654 x 312 mm
<b>Fast Cool Button</b>	Yes	<b>Net Weight</b>	53.5kg
<b>Time Control</b>	Timed < 10 hr or Continuous	<b>CE MARK</b>	Yes
<b>Time Counting Range</b>	Selectable, at set speed or from starting	<b>Cat No.</b>	GZ-1848R
<b>Noise Level (dependent on rotor)</b>	< 60dB		

## Fixed Angle Rotor, GRF-M-c50-8

- Capacity : 8 x 50 mL Conical | Max. RPM / RCF : 8,500 / 8,893
- Hole angle from axis during rotation :  $\angle 30^\circ$
- Hole dimension ( $\varnothing \times L$ , mm) : 29.8 x 94 | Hole bottom type : Conical
- Max. height for tube fit (mm) : 123
- Supplied with a lid and an O-ring inserted





















Tube						
Tube capacity (mL)	15 mL conical	25 mL conical	25 mL conical	30	50	50 mL conical
Tube Dimension ( $\Phi \times L$ , mm)	17 x 120	28.8 x 83	28.8 x 78.5	25.7 x 101.4	29 x 108	29.5 x 118
Adapter						None
Cat No.	GAS-c15(c50)	GAS-c25(c50)	GAS-c25(c50)	GAS-30(c50)	GAS-50(c50)	-
Adaptor hole dimension ( $\Phi \times L$ , mm)	17 x 105	27.1 x 14.1	27.1 x 14.1	26 x 83.8	27.9 x 11	-
Adaptor hole bottom type	Conical	Conical	Conical	Round	Round	-
Max. radius (mm)*	106.9	93.4	93.4	106.4	107.1	110.1
Max. RCF (g-force)*	8,635	7,544	7,544	8,595	8,651	8,893

## Fixed Angle Rotor, GRF-M-50/c15-4/4

- Capacity : 4 x 50 mL plus 4 x 15 mL Conical
- Max. RPM / RCF 8,500 / (9,144; 8,293)
- Hole angle from axis during rotation :  $\angle 30^\circ$
- Hole dimension ( $\varnothing \times L$ , mm) : 29.8 x 93.5 / 17.2 x 93.5
- Hole bottom type : Flat for 50 mL / Conical for 15 mL
- Max. height for tube fit (mm) : 123
- Supplied with a lid and an O-ring inserted










Tube										
Tube capacity (mL)	5	5	14 mL	15 mL conical	25 mL conical	25 mL conical	30	50	50 mL conical	50 mL conical (skirted)
Tube Dimension ( $\Phi \times L$ , mm)	16 x 59	16 x 67	15.7 x 96	17 x 120	28.8 x 83	28.8 x 78.5	25.7 x 101.4	29 x 108	29.5 x 118	29.5 x 118
Adapter				None						None
Cat No.	GAS-c5(c15)	GAS-c5(c15)	GAS-14(c15)	-	GAS-c25(f50)	GAS-c25(f50)	GAS-30(f50)	GAS-50(f50)	GAS-c50(f50)	-
Adaptor hole dimension ( $\Phi \times L$ , mm)	14.8 x 20	14.8 x 20	16 x 7.8	-	27.1 x 14.1	27.1 x 14.1	26 x 86.5	29.5 x 14	29.5 x 17.5	-
Adaptor hole bottom type	Conical	Conical	Round	-	Conical	Conical	Round	Round	Conical	-
Max. radius (mm)*	80.1	80.1	92.5	102	88.9	88.9	103.3	104	104	113.2
Max. RCF (g-force)*	6,470	6,470	7,472	8,239	7,181	7,181	8,344	8,401	8,401	9,144

## Fixed Angle Rotor, GRF-M-c15-12

- Capacity : 12 x 15 mL Conical | Max. RPM / RCF : 8,500 / 8,611
- Hole angle from axis during rotation :  $\angle 30^\circ$  | Hole dimension ( $\varnothing \times L$ , mm) : 17.2 x 96.5
- Hole bottom type : Conical | Max. height for tube fit (mm) : 125
- Supplied with a lid and an O-ring inserted





Tube				
Tube capacity (mL)	5	5	14 mL	15 mL conical
Tube Dimension ( $\Phi \times L$ , mm)	16 x 59	16 x 67	15.7 x 96	17 x 120
Adapter				None
Cat No.	GAS-c5(c15)	GAS-c5(c15)	GAS-14(c15)	-
Adaptor hole dimension ( $\Phi \times L$ ,mm)	14.8 x 20	14.8 x 20	16 x 7.8	-
Adaptor hole bottom type	Conical	Conical	Round	-
Max. radius (mm)*	84.7	84.7	97.1	106.6
Max. RCF (g-force)*	6,842	6,842	7,843	8,611

## Fixed Angle Rotor, GRE-M-m5.0-20

- Capacity : 20 x 5.0 mL | Max. RPM / RCF : 13,000 / 20,595
- Hole angle from axis during rotation :  $\angle 45^\circ$  | Hole dimension ( $\varnothing \times L$ , mm) : 17 x 53
- Hole bottom type : Conical | Max. height for tube fit (mm) : 68
- Supplied with a lid and two V-rings inserted










Tube		
Tube capacity (mL)	5	5
Tube Dimension ( $\Phi \times L$ ,mm)	16 x 59	16 x 67
Max. radius (mm)	109	109
Max. RCF (g-force)	20,595	20,595

## Fixed Angle Rotor, GRE-M-m2.0-48

- Capacity : 48 x 1.5/2.0 mL (24 outer, 24 inner) | Max. RPM / RCF : 13,000 / 18,479
- Hole angle from axis during rotation :  $\angle 45^\circ$  | Hole dimension ( $\varnothing \times L$ ,mm) : 11.1 x 39
- Hole bottom type : Round | Max. height for tube fit (mm) : 52
- Supplied with a lid and two V-rings inserted



Tube					
Tube capacity (mL)	0.2	0.5	1.5/2.0	2.0 mL filter tube	2.0 mL screw cap
Tube Dimension ( $\Phi \times L$ , mm)	6 x 8	8 x 30	11 x 38	11 x 38	10.1 x 46
Adapter			None	None	None
Cat No.	GAS-m0.2(2)	GAS-m0.5(2)	-	-	-
Adaptor hole dimension ( $\Phi \times L$ ,mm)	6.5 x 23	8 x 31	-	-	-
Adaptor hole bottom type	Open	Open	-	-	-
Max. radius (mm)*	Inner : 67 Outer : 80.5	Inner : 73 Outer : 87.5	Inner : 84.3 Outer : 97.8	Inner : 84.3	Inner : 84.3 Outer : 97.8
Max. RCF (g-force)*	Inner : 12,659 Outer : 15,210	Inner : 13,793 Outer : 16,532	Inner : 15,928 Outer : 18,479	Inner : 15,928	Inner : 15,928 Outer : 18,479







## Fixed Angle Rotor, GREB-M-m2.0-24

Bio-Safe

Porton Down Certified

- Capacity : 24 x 1.5/2.0 mL
- Max. RPM / RCF : 18,000 / 30,536
- Hole angle from axis during rotation :  $\angle 45^\circ$
- Hole dimension ( $\varnothing \times L$ , mm) : 11.1 x 39
- Hole bottom type : Round
- Max. height for tube fit (mm) : 52
- Supplied with a lid and two V-rings inserted





				
Tube				
Tube capacity (mL)	0.2	0.5	1.5/2.0	2.0 mL screw cap
Tube Dimension ( $\varnothing \times L$ , mm)	6 x 8	8 x 30	11 x 38	10.1 x 46
Adapter			None	None
Cat No.	GAS-m0.2(2)	GAS-m0.5(2)	-	-
Adaptor hole dimension ( $\varnothing \times L$ ,mm)	6.5 x 23	8 x 31	-	-
Adaptor hole bottom type	Open	Open	-	-
Max. radius (mm)*	67	73	84.3	84.3
Max. RCF (g-force)*	24,270	26,443	30,536	30,536

## Fixed Angle Rotor, GRE-M-s0.2-64

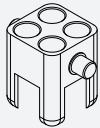
- Capacity : 8 x8-Tube PCR strips, 64 x 0.2 mL
- Max. RPM / RCF : 12,500 / 11,722
- Hole angle from axis during rotation :  $\angle 45^\circ$
- Hole dimension ( $\varnothing \times L$ ,mm) : 6.5 x 16
- Hole bottom type : Round
- Max. height for tube fit (mm) : 25
- Supplied with a lid and two V-rings inserted



		
Tube		
Tube capacity (mL)	0.2	8-Strip tube
Tube dimension ( $\varnothing \times L$ , mm)	6 x 8	6 x 8
Max. radius (mm)	Inner 58.6 Outer 67.1	Inner 58.6 Outer 67.1
Max. RCF (g-force)	Inner 10,237 Outer 11,722	Inner 10,237 Outer 11,722







## Windshield Swing-out Rotor, GRD-M-m2.0-24

- 6 loadings | Max. Capacity : 6 x 4 x 1.5/2.0 mL
- Max. RPM / RCF : 13,000 / 16,438
- Hole angle from axis during rotation :  $\angle 90^\circ$
- Supplied with two V-rings inserted six buckets and a lid included



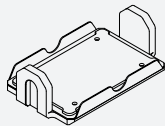
Microtube 1.5/2.0 mL  
Quadruple Bucket  
**GLB-m2.0-4(16)**

Max. Capacity : 4 x 1.5/2.0 mL  
Max. RPM / RCF : 13,000 / 16,438  
Hole dimension ( $\varnothing \times L$ ,mm) : 11.1 x 19  
Hole bottom type : Open  
Max. height for tube fit (mm) : 50

Tube				
Tube capacity (mL)	0.2	0.5	1.5/2.0	2.0 mL screw cap
Tube Dimension ( $\Phi \times L$ , mm)	6 x 8	8 x 30	11 x 38	10.1 x 46
Adapter			None	None
Cat No.	GAS-m0.2(2)	GAS-m0.5(2)	-	-
Adaptor hole dimension ( $\Phi \times L$ ,mm)	6.5 x 23	8 x 31	-	-
Adaptor hole bottom type	Open	Open	-	-
Max. radius (mm)	70	78	87	87
Max. RCF (g-force)	13,226	14,737	16,438	16,438


## Windshield Swing-out Rotor, GRD-M-mw-2

- 2 loadings | Capacity : 2 MTP
- Max. RPM / RCF : 5,750 / 3,050
- Angle from axis during rotation :  $\angle 90^\circ$
- Two plate holders and a lid



Microplate Holder Bucket  
**GLP-mw(mw-2)**

Max. RPM / RCF : 5,750 / 3,050  
Max. Radius (mm) : 82.5  
Hole dimension (w x d x h, mm) : 86.5 x 128.5  
Max. height for tube fit (mm) : 36

Tube	
Tube capacity (mL)	MTP
Tube Dimension ( $\Phi \times L$ ,mm)	86 x 128 x 15
Bucket capacity (ea / 2)	2 / 4
Max. radius (mm)	82.5
Max. RCF (g-force)	3,050