



MicroCentrifuge : 1848R

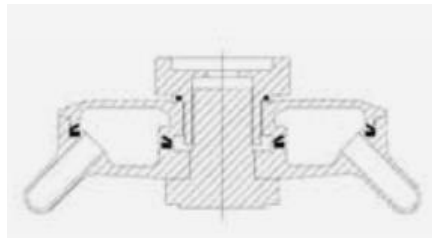
1848R is one of the fastest refrigerated micro centrifuge. It is the first to hold 50mL conical tubes and microplates. Gyrozen 1848R centrifuge suits for experiments in molecular and cellular biology including ethanol precipitation, phenol extraction, NA preparation, cell collection and spin-down of temperature sensitive reaction mixtures.

Features

- ✧ Capacity / Fixed Angle: 8 x c50mL; 20 x c5.0mL; 48 x 1.5/2.0 mL
- ✧ Capacity / Swing-out: 6 x 4 x 2.0 mL; 2 x 2 MTPs
- ✧ Highly visible display screen, numeric keys with integrated touch buttons for easy operation and quick setting
- ✧ "PULSE" key available for quick spin
- ✧ Fast cooling available for cooled samples
- ✧ Key lock function available
- ✧ Automatic rotor recognition and imbalance detection warning for safety
- ✧ Swing-out for 1.5/2.0mL and microplate rotors extend 1848R's application
- ✧ Motorized lid mechanics for a gentle touch for lid's opening and closure
- ✧ Bio-seal (Public Health England Porton Down) certified rotor
- ✧ **Easy-Lock** rotor with a set of V-rings (only for Micro rotor)
- ✧ **Easy-Lock** rotor lid allows easy and convenient "one touch" lid opening and closure with safety



↓ Tightly sealed rotor with two V-rings and an O-ring



Easy-Lock video QR code. →



Technical Specifications












Max. RPM/RCF for Fixed Angle	18,000 rpm (30,356 xg)
Max. RPM/RCF for Swing-out	6,000 rpm (16,438 xg)
Max. Capacity for Fixed Angle	8 x c50mL; 20 x c5.0mL; 48 x 1.5/2.0 mL
Max. Capacity for Swing-out	6 x 4 x 2.0 mL ; 2 x 2 MTPs
Temp. Range	-12°C ~ 40°C
Acc. Time to Max. Speed	≤ 19sec
Dec. Time from Max. Speed	≤ 15sec
Time Control	Pulse, Timed < 10 hr, or Continuous
Time Counting Range	Selectable: at set speed or from starting
RCF/RPM Conversion	Yes

Noise Level (dependent on rotor)	≤ 60dB
ACC/DEC Ramps	9/10
Program Memory	100
Power Supply (V/Hz)	220~230 V, 60/50Hz (110 V optional)
Power Requirement (VA)	2.0 KVA
Dimension (W x D x H)	380 x 654 x 312 mm
Net Weight	53.5 kg
CE MARK	Yes
Cat No.	GZ-1848R

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 ($\varnothing \times L$, 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 ($\varnothing \times L$, 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






* Depending on the size of cap, there is a possibility of not fit-in.

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

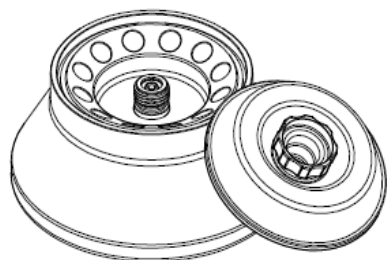


- Capacity : 4 x 50 mL plus 4 x 15 mL Conical
- Max. RPM / RCF : 8,500 / 9,144 / 8,293
- Hole angle from axis during rotation : $\angle 30^\circ$
- Hole dimension ($\varnothing \times L$, mm) : 29.8 x 93.5 / 17.2 x 93.5
- Hole bottom type : Flat for 50 mL / Conical for 15 mL
- Max. height for tube fit (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	30	50
Tube Dimension ($\varnothing \times L$, mm)	16 x 59	16 x 67	15.7 x 96	17 x 120	28.8 x 78.5	25.7 x 101.4	29 x 108
Adapter				None			
Cat No.	GAS-c5(c15)	GAS-c5(c15)	GAS-14(c15)	-	GAS-c25(f 50)	GAS-30(f 50)	GAS-50(f 50)
Adaptor hole dimension ($\varnothing \times L$, mm)	14.8 x 20	14.8 x 20	16 x 7.8	-	27.1 x 14.1	26 x 86.5	29.5 x 14
Adaptor hole bottom type	Conical	Conical	Round	-	Conical	Round	Round
Max. radius (mm)*	80.1	80.1	92.5	102	88.9	103.3	104
Max. RCF (g-force)*	6,470	6,470	7,472	8,239	7,181	8,344	8,401

Tube			
Tube capacity (mL)	50	50 mL conical	50 mL conical (skirted)
Tube Dimension ($\varnothing \times L$, mm)	29 x 108	29.5 x 118	29.5 x 118
Adapter			None
Cat No.	GAS-50(f 50)	GAS-c50(f 50)	-
Adaptor hole dimension ($\varnothing \times L$, mm)	29.5 x 14	29.5 x 17.5	-
Adaptor hole bottom type	Round	Conical	-
Max. radius (mm)*	104	80.1	113.2
Max. RCF (g-force)*	8,401	6,470	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	14mL	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)	GAS-m0.5(2)	-	-
Adaptor hole dimension ($\Phi \times L$, mm)	6.5 x 23	6.5 x 23	8 x 31	-	-
Adaptor hole bottom type	Open	Open	Open	-	-
Max. radius (mm)*	Inner : 67 Outer : 80.5	Inner : 73 Outer : 87.5	Inner : 84.3 Outer : 97.8	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 : 16,532	15,928	Inner : 15,928 Outer : 18,479

Fixed Angle Rotor, GREB-M-m2.0-24 : Bio-Seal Certified Rotor



Bio-Safe



- 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



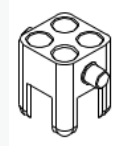
- Capacity : 8 x 8-Tube PCR strips, 64 x 0.2 mL
 - Max. RPM / RCF : 12,500 / 11,722
 - Hole angle from axis during rotation : $\angle 45^\circ$
 - Hole dimension ($\varnothing \times L$, mm) : 6.5 x 16
- Hole bottom type : Round
 - Max. height for tube fit (mm) : 25
 - Supplied with a lid and two V-rings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

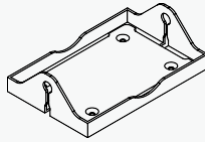


Microtube 1.5/2.0 mL
Quaduple Bucket,
GLB-m2.0-4(16)

- Hole bottom type : Round
- Hole dimension ($\varnothing \times L$,mm) : 11.1 x 19
- Hole bottom type : Open
- Max. height for tube fit (mm) : 50
- Bucket material : Aluminum alloy, anodized, autoclavable

Tube				
Tube capacity (mL)	0.2	0.5	1.5/2.0	2.0mL screw cap
Tube Dimension ($\Phi \times L$, mm)	6 x8	8 x30	11 x38	10.1 x46
Adapter			None	None
Cat No.	GAS-m0.2(2)	GAS-m0.5(2)	-	-
Adaptor hole dimension ($\Phi \times L$, mm)	6.5 x23	8 x31	-	-
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



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 x 36
- 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

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