

MicroCentrifuge : 1848R

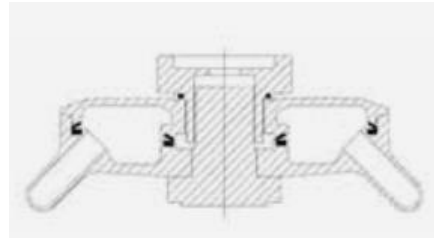
1848R is one of the fastest refrigerated micro centrifuge. It is the first to hold 50mL conical tubes and microplates. Gyrozen 1848R centrifuge suits for experiments in molecular and cellular biology including ethanol precipitation, phenol extraction, NA preparation, cell collection and spin-down of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

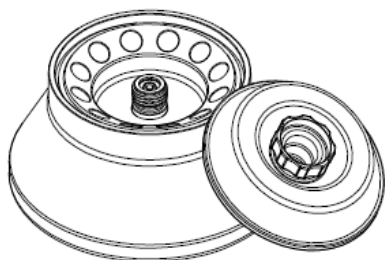


- Capacity : 4 x 50 mL plus 4 x 15 mL Conical
- Max. RPM / RCF : 8,500 / 9,144 / 8,293
- Hole angle from axis during rotation : $\angle 30^\circ$
- Hole dimension ($\varnothing \times L$, mm) : 29.8 x 93.5 / 17.2 x 93.5
- Hole bottom type : Flat for 50 mL / Conical for 15 mL
- Max. height for tube fit (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-m0.2(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



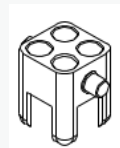
- Capacity : 8 x 8-Tube PCR strips, 64 x 0.2 mL
 - Max. RPM / RCF : 12,500 / 11,722
 - Hole angle from axis during rotation : $\angle 45^\circ$
 - Hole dimension ($\varnothing \times L$, mm) : 6.5 x 16
- Hole bottom type : Round
 - Max. height for tube fit (mm) : 25
 - Supplied with a lid and two V-rings 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-m2.0-8









- 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

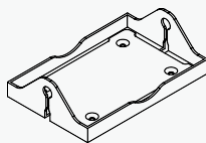


Microtube 1.5/2.0 mL
Quaduple Bucket,
GLB-m2.0-4(16)

- 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 | 2.0 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) | 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 : 5,000 / 2,306
- 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 ($\varnothing \times L$, mm) | 86 x 128 x 15 |
| Bucket capacity (ea/2) | 2 / 4 |
| Max. radius (mm) | 82.5 |
| Max. RCF (g-force) | 3,050 |

Distributor:

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