

GYROZEN

# GYROZEN Centrifuges



The highest spec  
low speed centrifuge  
**624R**

MAX. 6,000 RPM



The largest high speed  
bench top centrifuge  
**1696R**

MAX. 16,000 RPM



The largest high speed microcentrifuge  
**1848R**

MAX. 18,000 RPM

# Micro Centrifuge 1848R

MAX. **18,000** RPM  
**30,356** xg

Large capacity , Micro Centrifuge for 50 mL conical and microplate application



- Swing-out centrifugation of microplate up to 3,000 xg
- Modern compact design with minimal vibration and noise
- Simple control panel, soft-touch convenience and intuitive function array
- Easy-Lock Rotor with one-click rotor-lid locking system
- High g-force implementation for assorted fixed angle rotors and swing-out rotors

## ROTORS of 1848R

<p><b>GRF-M-c50-8</b> 8 x 50 mL Conical Max. RPM/RCF. 8,500/8,893</p>	<p><b>GRF-M-50/c15-4/4</b> 4 x 50 mL + 4 x 15 mL Conical Max. RPM/RCF. 8,500/9,144</p>	<p><b>GRF-M-c15-12</b> 12 x 15 mL Conical Max. RPM/RCF. 8,500/8,611</p>
<p><b>GRE-M-m5.0-20</b> 20 x 5.0 mL Max. RPM/RCF. 13,000/20,595</p>	<p><b>GRE-M-m2.0-48</b> 48 x 1.5/2.0 mL Max. RPM/RCF. 13,000/18,479</p>	<p><b>GRE-M-m2.0-24</b> 24 x 1.5/2.0 mL Max. RPM/RCF. 18,000/30,536</p>
<p><b>GRD-M-m2.0-24</b> 6 x 4 x 1.5/2.0 mL Max. RPM/RCF. 13,000/16,438</p>	<p><b>GRD-M-mw-2</b> 2 x 2 MTP Max. RPM/RCF. 5,750/3,050</p>	<p><b>Easy-Lock Rotor Video</b></p>

# Low-speed Centrifuge 624R

MAX. **6,000** RPM  
**3,960** xg

Run your precious biological samples with refrigerated centrifuge, 624R



- Low speed centrifuge with refrigeration provides an optimal environment for sensitive cells and blood samples
- One-time centrifugation of up to 32 tubes of serological tubes or vacutainer
- Centrifugation of 50 mL conical tube of up to 4,000 xg during cell harvesting
- Massive varieties of bucket & adapters for different sample tubes, syringes, etc.
- Side tool box for storing scales, spanners, balancing tubes and more

## ROTORS of 624R

<p><b>GRF-SR-c50-6</b> 6 x 50 mL Conical Max. RPM/RCF. 6,000/3,960</p>	<p><b>GRF-SR-m2.0-24</b> 24 x 1.5/2.0 mL Max. RPM/RCF. 6,000/3,393</p>	<p><b>GRA-SR-50-10</b> 10 x 50 mL Max. RPM/RCF. 4,000/2,549</p>	<p><b>GRA-SR-c50-10</b> 10 x 50 mL Conical Max. RPM/RCF. 4,000/2,508</p>
<p><b>GRA-SR-15-24</b> 24 x 15 mL Max. RPM/RCF. 4,000/2,773</p>	<p><b>GRS-SR-100-4 / GLB-b100-100</b> 4 x 100 mL Max. RPM/RCF. 4,200/3,059</p>	<p><b>GRS-SR-100-4 / GLB-dc50-100</b> 4 x 2 x 50 mL Conical Max. RPM/RCF. 4,200/3,059</p>	<p><b>GRS-SR-100-4 / GLB-15-8-100</b> 4 x 8 x 15 mL Max. RPM/RCF. 4,200/2,998</p>
<p><b>GRS-SR-50-4 / GLB-c50-50</b> 4 x 50 mL Conical Max. RPM/RCF. 4,800/3,888</p>	<p><b>GRS-SR-50-4 / GLB-dc15-50</b> 4 x 2 x 15 mL Conical Max. RPM/RCF. 4,800/3,888</p>	<p><b>GRS-SR-15-6 / GLB-d15-15</b> 6 x 2 x 15 mL Max. RPM/RCF. 4,400/3,312</p>	<p><b>GRS-SR-mw-2</b> 2 MTP (DWP) Max. RPM/RCF. 4,000/2,000</p>

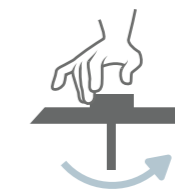
# Table-top High-speed Centrifuge 1696R

MAX. **16,000** RPM  
**27,590** xg

The Largest, real versatile, multi-purpose benchtop centrifuge ever



- One-time centrifugation on Swing-out up to 4 L, fixed-angle up to 1.5 L
- Capable to run 50 mL tube 26,000 xg & microplate 4,000 xg
- Wide display and intuitive, simple control panel
- Maximum capacity (192 Vacutainers, 116 conical 15 mL tubes or 52 conical 50 mL tubes per run)
- Single action fastening of fixed angle rotor to motor shaft with lid coupling



To fix rotor safely on the motor's shaft, only tighten the rotor's lid completely.

## ROTORS of 1696R

<p><b>GRF-B-250-6</b> 6 x 250 mL + 6 x 15 mL Max. RPM/RCF. 8,000/9,588</p>	<p><b>GRF-B-85-6</b> 6 x 85 mL Max. RPM/RCF. 12,000/16,019</p>	<p><b>GRF-B-c50-8</b> 8 x 50 mL Conical Max. RPM/RCF. 13,000/20,784</p>	<p><b>GRF-B-c15-12</b> 12 x 15 mL Conical Max. RPM/RCF. 15,000/25,910</p>
<p><b>GRF-B-m5.0-20</b> 20 x 5.0 mL Conical Max. RPM/RCF. 13,500/22,209</p>	<p><b>GRF-B-m2.0-48</b> 48 x 1.5/2.0 mL Max. RPM/RCF. 15,000/24,602</p>	<p><b>GRS-B-1000-4 / GLB-h1000-1000</b> 4 x 1,000 mL Max. RPM/RCF. 3,700/3,092</p>	<p><b>GRS-B-1000-4 / GLB-br1000-1000</b> 4 x 1,000 mL Max. RPM/RCF. 3,700/3,084</p>
<p><b>GRS-B-1000-4 / GLB-b1000-1000</b> 4 x 1,000 mL Max. RPM/RCF. 3,700/3,337</p>	<p><b>GRS-B-750-4 / GLB-mw-750B</b> 4 x 4 MTP Max. RPM/RCF. 4,600/4,033</p>	<p><b>GRS-B-250-4 / GLB-250-250</b> 4 x 250 mL Max. RPM/RCF. 5,000/5,394</p>	<p><b>GRS-B-100-6 / GLB-15-8-100</b> 6 x 8 x 15 mL Max. RPM/RCF. 4,200/3,372</p>

## Centrifuges Technical Specifications

	1848R	624R	1696R
Max. RPM/RCF for Fixed Angle	18,000 rpm / 30,356 xg	6,000 rpm / 3,960 xg	16,000 rpm / 27,590 xg
Max. RPM/RCF for Swing-out	13,000 rpm / 16,438 xg	4,800 rpm / 3,888 xg	5,000 rpm / 5,394 xg
Max. Capacity for Fixed Angle	8 x 50 mL conical, 20 x 5.0 mL conical, 48 x 2.0 mL	10 x 50 mL / 50 mL conical, 24 x 2.0 mL	6 x 250 mL, 8 x 50 mL 20 x 5.0 mL conical, 48 x 2.0 mL
Max. Capacity for Swing-out	24 x 2.0 mL, 2 x 2 MTPs	4 x 100 mL, 32 vacutainer tube, 2 x 2 MTPs	4 x 1,000 mL, 4 x 5 MTPs
Temp. range (°C)	-12°C to 40°C	-10°C to 40°C	-11°C to 40°C
FAST cool button	Yes		
Time control	Pulse, Timed < 10 hr or Continuous		
Time counting range	Selectable, "AT Set Speed" or "From Starting"		
RCF/RPM conversion	YES		
ACC/DEC Ramps	9/10		
Program Memory	100	100	100 (3 Quick Program call button)
Power Supply	220~230 V, 60/50 Hz (110 V optional)		
Power Requirement	2.0 KVA	0.9 KVA	2.0 KVA
Dimension (W x D x H)	380 x 654 x 312 mm	584 x 535 x 317 mm	775 x 695 x 395 mm
Net Weight	53.5kg	65 kg	116 kg



**NEW**

## CO<sub>2</sub> Incubator ARA P170

- Direct heating, fan-less CO<sub>2</sub> Incubator
- Internal max. capacity 170 L
- Seamless Stainless Steel Chamber
- No vibration, no maintenance of HEPA filter, no spread-out of contamination
- Dual beam NDIR CO<sub>2</sub> sensor
- Intuitive 7" control screen and informative display
- Optional decontamination heating at 120°C
- Supplied with three perforated stainless steel shelves

### Technical Specifications

Inner Capacity	170 L	<b>Temperature Control</b>	
External dimension (w x d x h)	720 x 639 x 908 mm	Control system	Microprocessor PID
Net Weight	91 kg	Range	Amb. +5 ~ 50°C
Door Left/Right	Convertible	Accuracy	± 0.2°C
Fan	No	Uniformity	± 0.3°C
Heating Method	Direct surface heating by 6 separate heaters	Recovery time	<10 min
Decontamination	120 °C Baking	<b>CO<sub>2</sub> Control</b>	
Display	7" LCD, touchscreen	Control system	Microprocessor PID
Data Tracking	240 hours continuous	Sensor	NDIR
<b>rH system</b>		Control range	0 ~ 20%
Humidity method	Water pan	Control accuracy	± 0.1
Humidity range, %RH	92 ~ 98%	Recovery rate	< 7 min