

CENTRIFUGE SOLUTION



LabTech

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ABOUT US

LabTech is a leading manufacturing company with skill and passion devoted to provide advanced laboratory solutions to the analytical community. We are located in Sorisole, northern Italy, with facilities in USA and China. Incorporated with global branches, LabTech is organized into R&D, production, marketing & sales and customer support. Major LabTech products include organic/inorganic sample preparation systems, laboratory cooling/heating/temperature control equipments, analytical instruments, gas generators and laboratory centrifuges. With knowledgeable scientists and experienced engineers, our R&D team has developed and released a series of new lab equipments and instruments dedicated to the modern analytical laboratories. With all of these accomplishments and our endless research and development efforts, we are proud to be your professional partner.

QUALITY OF THE PRODUCTS

We are one of the few centrifuge companies in the world that still fabricates all of its own rotors in-house, and this is how we can assure the same high quality result every time.

PRODUCTS WITH SOUL

All centrifuge products are hand-made and assembled with passion and pride at the Gimpo facility, where the rotors are being cut, and the motors are being hand-wired.

KEY POINTS FOR USER'S SATISFACTION

STABLE QUALITY



- . Manufactured and tested to IEC standards
- . Steady and soft deceleration with dynamic brake technology
- . Anti-vibration and air-cooling system to minimize noise and heat dissipation
- . Eco-friendly Compressor-off function to minimize unnecessary cooling and frosting when lid is open
- . Fast cooling function allowing a temperature drop to 4°C within 5 minutes for quick start of cooled samples
- . Fine control of time counting by a selection of "At Set Speed or From Starting"
- . CE IVD-certified centrifuge versions for medical purpose

SAFETY AND ROBUSTNESS



- . Sturdy structured, two to three layered lid for noise reduction and safe operation
- . Lid drop protection for easiness and safety for loading or unloading sample
- . Emergency lid-lock release for power blackout or sudden stoppage
- . Key lock function to prevent unintentional parameter modification during operation
- . Automatic rotor detection and warning for imbalance, excess speed and over-heating
- . Autoclavable and corrosion-free rotors
- . Imbalance detection and counting of imbalance error

EASY CUSTOMIZATION



- . In house customization upon specific requirement for rotors, sample containers and adaptors
 - . High flexibility of structural & functional modifications
-

CONVENIENCE IN OPERATION



- . Windows CE based 7" LCD Touch Screen and simultaneous display of all parameters
- . Intuitive control interface with numeric input buttons displaying graphic pictograms for the setting and editing of running conditions
- . Reversible parameters during operation
- . Program memory up to 100 (or 10) programs
- . Time control functions of pulse for quick spin
- . Automatic RPM/RCF conversion
- . "Easy-Lock" lid allowing easy and convenient lid opening and closure (Micro rotors)
- . Automatic lid release and vivid end alarm at spinning completion
- . Easy observation of actual rotation through the viewing window on the lid
- . Large assortment of rotors, buckets and adaptors for diverse applications
- . Floor standing centrifuges equipped with 4 casters allowing easy movement and user's convenience
- . Multipurpose centrifuge with high capacity buckets up to 1,000mL

CERTIFICATE AND REGISTRATIONS



- . Accredited with ISO 9001, ISO 13485, and KGMP
 - . Comply with CE conformity
 - . Approved as Class IIa medical devices (IVD)
-

416 Low-speed Centrifuge



Features

- Speed : 4,000 rpm (2,549 xg) ; 4,000 rpm (2,700 xg)
- Capacity : 10 x 50 mL /c50 mL ; 16 x 15 mL
- Very quiet operation at less than 56 dB allowing a comfortable laboratory environment
- Lid drop protection allows easiness and safety when loading or unloading samples
- Automatic lid release and vivid end alarm allows easy retrieval of sample
- Unique vacutainer buckets for separation of 32 vacutainer samples
- Large assortment of accessories for micro tubes and all sizes of tubes up to 100 mL

Technical Specifications


Max. RPM/PCF for Fixed Angle	4,000 rpm / 2,700 xg
Max. RPM/PCF for Swing-out	4,000 rpm / 2,826 xg
Max. Capacity for Fixed Angle	16 x 15 mL, 10 x 50 mL
Max. Capacity for Swing-out	4 x 100 mL, 4 x 8 vacutainer tube, 2 x 2 MTPs
Time control	Timed <100 min or continuous
Acc. time to Max. Speed	≤20 sec
Dec. time from Max. Speed	≤25 sec
RCF/RPM conversion	Yes
Noise level (dependent on rotor)	≤52 dB

















RCF/RPM conversion	Yes
Program Memory	10
Power Supply	AC 230V, 50Hz (AC 220-230V, 60/50Hz; 110V optional)
Power Requirement	340 VA
Dimension (W x D x H)	375 x 480 x 260 mm
Net Weight	19.5 kg
CE MARK	Yes
Cat No.	GZ-0416

Angle Rotor, GRA-S-50-10

- Capacity : 10 x 50 mL or 50 mL Conical | Max. RPM / RCF : 4,000 / 2,549
- Hole angle rotation : $\angle 45^\circ$ | Hole dimension ($\varnothing \times L$, mm) : 32.2 x 13.5
- Supplied with 10 sleeves, No ID ring



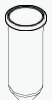
	50 mL Sleeve, GLB-50s-50A	Max. RMP / RCF : 4,000 / 2,549 Hole dimension ($\varnothing \times L$, mm) : 30 x 99 Hole bottom type : Flat bottom with rubber pad Max. height for tube fit (mm) : 130 Supplied with 3.5 mm thick NBR pad
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


									
Tube	14 mL	15	15 mL conical	25 mL conical	25 mL conical	30	50 mL conical	50mLconical (Skirt)	50
Tube capacity (mL)									
Tube Dimension ($\Phi \times L$, mm)	15.7 x 96	16 x 120	17 x 120	28.8 x 83	28.8 x 78.5	25.7 x 101.4	29.5 x 118	29.5 x 118	29 x 108
								None	None
Adapter									
Cat No.	GAS-u14(f50)	GAS-u15(f50)	GAS-u15(f50)	GAS-c25(f50)	GAS-c25(f50)	GAS-30(f50)	GAS-c50(f50)	-	-
Adaptorholedimension ($\Phi \times L$, mm)	17.2 x 75	17.2 x 87	17.2 x 87	27.1 x 14.1	27.1 x 14.1	26 x 86.5	29.5 x 17.5	-	-
Adaptor hole bottom type	Open	Open	Open	Conical	Conical	Round	Conical	-	-
Max. radius (mm)	141.9	141.9	141.9	115	115	135	135.5	142.5	142.5
Max. RCF (g-force)	2,538	2,538	2,538	2,057	2,057	2,415	2,424	2,549	2,549

Fixed Angle Rotor, GRA-S-c50-10

- Capacity : 10 x 50 mL or 50 mL Conical | Max. RPM / RCF : 4,000 / 2,508
- Hole angle rotation : $\angle 45^\circ$ | Hole dimension ($\varnothing \times L$, mm) : 32.2 x 13.5
- Supplied with 10 sleeves, No ID ring



	50 mL Sleeve, GLB-c50s-50A	Max. RPM / RCF : 4,000 / 2,508 Hole dimension ($\varnothing \times L$, mm) : 31 x 99 Hole bottom type : Conical Max. height for tube fit (mm) : 130
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Tube	15 mL conical	25 mL conical	25 mL conical	30	50	50 mL conical
Tube capacity (mL)						
Tube Dimension ($\Phi \times L$, mm)	17 x 120	28.8x83	28.8x78.5	25.7 x 101.4	29 x 108	29.5 x 118
						None
Adapter						
Cat No.	GAS-c15(c50)	GAS-c25(c50)	GAS-c25(c50)	GAS-30(c50)	GAS-50(c50)	-
Adaptorholedimension ($\Phi \times L$, mm)	17 x 105	27.1x14.1	27.1x14.1	26x83.8	27.9 x 11	-
Adaptor hole bottom type	Conical	Conical	Conical	Round	Round	-
Max. radius (mm)	139.6	115	115	135.5	136.1	140
Max. RCF (g-force)	2,497	2,057	2,057	2,424	2,435	2,508














Angle Rotor, GRA-S-15-16A

- Capacity : 16 x 15 mL
- Max. RPM / RCF : 4,000 / 2,700
- Hole angle rotation : $\angle 45^\circ$
- Hole dimension ($\varnothing \times L$, mm) : 20.4 x 10.5
- Supplied with 16 sleeves, No ID ring



15 mL Sleeve,
GLB-15/10A

Max. RPM / RCF : 4,000 / 2,700
 Hole dimension ($\varnothing \times L$, mm) : 18 x 87
 Hole bottom type : Flat bottom with rubber pad
 Max. height for tube fit (mm) : 125 (120 for conical / wider cap)
 Supplied with 4.0 mm thick NBR pad

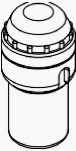
								
Tube								
Tube capacity (mL)	2.0 ~ 4 mL VT	4 ~ 7 mL VT	5 mL conical	5 mL conical	14 mL	8 ~ 10 mL VT	15	15 mL conical
Tube Dimension ($\varnothing \times L$, mm)	13 x 75	13 x 100	16 x 59	16 x 67	15.7 x 96	16 x 100	16 x 120	17 x 120
Adapter						None	None	None
Cat No.	GAS-3(f15)	GAS-5(f15)	GAS-c5(f15)	GAS-c5(f15)	GAS-14(f15)	-	-	-
Adaptor hole dimension ($\varnothing \times L$, mm)	13.5 x 61	13.5 x 85	14 x 20	14 x 20	16.5 x 7	-	-	-
Adaptor hole bottom type	Round	Open	Conical	Conical	Round	-	-	-
Max. radius (mm)*	134	146	118.5	118.5	139.4	150.9	150.9	150.9
Max. RCF (g-force)*	2,397	2,612	2,120	2,120	2,494	2,700	2,700	2,700

Swing Rotor, GRS-S-100-4

- 4 loadings
- Max. RPM : 4,000
- Angle from axis during rotation : $\angle 90^\circ$
- Supplied with a lubricant, No ID ring





































Bio-Safe Porton Down Certified

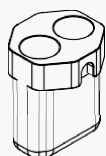


**100 mL Bucket with a Cap,
GLBB-b100-100**

Max. RPM / RCF : 4,000 / 2,774
 Max. Radius (mm) : 155.1
 Hole dimension (Ø x L, mm) : 47 x 99
 Max. height for tube fit (mm) : 120 (w/ cap) / 130 (w/o cap)
 Hole bottom type : Flat
 Supplied with a cap and an O-ring, No cap version is available












Tube									
Tube capacity (mL)	1.5 ~ 2.0	2.0 mL screw cap	5 mL conical	5 mL conical	2.6 ~ 7	4 ~ 10	15	15 mL conical	15 mL conical
Tube Dimension (Φ x L, mm)	11 x 38	10.1x46	16 x 59	16 x 67	13 x 75	16 x 100	16 x 120	17 x 120	17 x 120
Adapter									
Cat. No.	GAM-m2.0-6(b100)	GAM-m2.0-6(b100)	GAM-c5-3(b100)	GAM-c5-3(b100)	GAM-7-5(b100)	GAM-10-5(b100)	GAM-15-3(b100)	GAM-15-3(b100)	GAS-c15(b100)
Rack capacity (ea / 4)	6 / 24	6 / 24	3/12	3/12	5 / 20	5 / 20	3 / 12	3 / 12	1 / 4
Rack hole dimension (Φ x L,mm)	11 x 39	11 x 39	17.2 x 52	17.2 x 52	13.5 x 60	16 x 60	17.5 x 105	17.2 x 106.5	17.2 x 106.5
Rack hole bottom type	Round	Round	Conical	Conical	Round	Flat	Flat	Conical	Conical
Max. height tube fit (mm)	115	115	75	75	115	115	120	120	120
Max. radius (mm)*	150.1	150.1	110.1	110.1	150.1	150.1	152.1	155.1	155.1
Max. RCF (g-force)*	2,685	2,685	1,969	1,969	2,685	2,685	2,721	2,774	2,774

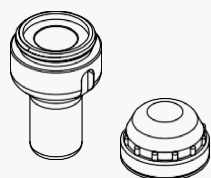
Tube								
Tube capacity (mL)	25 mL conical	25 mL conical	30	50	50 mL conical	50 mL conical (Skirted)	85	100
Tube Dimension (Φ x L, mm)	28.8 x 83	28.8 x 78.5	25.7 x 101.4	29 x 108	29.5 x 118	29.5 x 118	38 x 106	44 x 115
Adapter								
Cat. No.	GAS-c25(b100)	GAS-c25(b100)	GAS-30(b100)	GAS-50(b100)	GAS-c50(b100)	GAS-sc50(b100)	GAS-85(b100)	GAS-100(b100)
Rack capacity (ea / 4)	1 / 4	1 / 4	1 / 4	1 / 4	1 / 4	1 / 4	1 / 4	1 / 4
Rack hole dimension (Φ x L,mm)	17.2 x 52	17.2 x 52	26 x 86	29.5 x 95.9	30 x 100	29.8 x 100	38.5 x 96.4	44.2 x 93
Rack hole bottom type	Conical	Conical	Round	Round	Conical	Flat	Round	Round
Max. height tube fit (mm)	118	118	118	118	120	120	118	118
Max. radius (mm)*	153.5	153.5	153.5	153	153	153	153.5	150.1
Max. RCF (g-force)*	2,746	2,746	2,746	2,737	2,737	2,737	2,746	2,685



50 mL Conical Bucket,
GLB-dc50-100

















Max. RPM / RCF : 4,000 / 2,774
 Max. Radius (mm) : 155.1
 Hole dimension (Ø x L, mm) : 30 x 89
 Max. height for tube fit (mm) : 125
 Hole bottom type : Conical

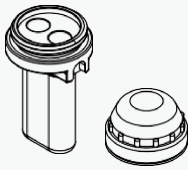
Tube						
Tube capacity (mL)	15 mL conical	25 mL conical	25 mL conical	30	50	50 mL conical
Tube Dimension (Φ x L, mm)	17 x 120	28.8 x 83	28.8 x 78.5	25.7 x 101.4	29 x 108	29.5 x 118
Adapter						None
Cat No.	GAS-c15(50)	GAS-c25(c50)	GAS-c25(c50)	GAS-30(c50)	GAS-50(c50)	-
Bucket capacity(ea / 6)	2 / 8	2 / 8	2 / 8	2 / 8	2 / 8	2 / 8
Adaptorholedimension (Φ x 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)	152.5	118.5	118.5	143.9	144.1	155.1
Max. RCF (g-force)	2,728	2,120	2,120	2,574	2,578	2,774



50 mL Bucket with a Cap,
GLB-b50-100




Max. RPM / RCF : 4,000 / 2,700
 Max. Radius (mm) : 150.9
 Hole dimension (Ø x L, mm) : 30.5 x 97
 Max. height for tube fit (mm) : 120 (w/ cap) / 125 (w/o cap)
 Hole bottom type : Flat bottom with rubber pad
 Supplied with a cap and O-ring, No cap version is available

Tube									
Tube capacity (mL)	14 mL	15	15 mL conical	25 mL conical	25 mL conical	30	50 mL conical	50 mL conical (Skirt)	50
Tube Dimension (Φ x L, mm)	15.7 x 96	16 x 120	17 x 120	28.8 x 83	28.8 x 78.5	25.7 x 101.4	29.5 x 118	29.5 x 118	29 x 108
Adapter								None	None
Cat No.	GAS-u14(f50)	GAS-u15(f50)	GAS-u15(f50)	GAS-c25(f50)	GAS-c25(f50)	GAS-30(f50)	GAS-c50(f50)	-	-
Adaptorholedimension (Φ x L,mm)	17.2 x 75	17.2 x 87	17.2 x 87	27.1 x 14.1	27.1 x 14.1	26 x 86.5	29.5 x 17.5	-	-
Adaptor hole bottom type	Open	Open	Open	Conical	Conical	Round	Conical	-	-
Max. radius (mm)	150.9	150.9	150.9	117.1	117.1	142.1	142	150.9	150.9
Max. RCF (g-force)	2,700	2,700	2,700	2,095	2,095	2,542	2,540	2,700	2,700



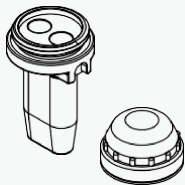
15 mL Dual Round Bucket
with a Cap,
GLB-bd15-100

Max. RPM / RCF : 4,000 / 2,700
Max. Radius (mm) : 150.9
Hole dimension (Ø x L ,mm) : 17 x 87
Max. height for tube fit (mm) : 123 (w/ cap) / 127 (w/o cap)
Hole bottom type : Round
Supplied with a cap and O-ring

Tube			
Tube capacity (mL)	15 mL glass	15 mL open top	15
Tube Dimension (Φ x L,mm)	16 x 100	16 x 114	16 x 120
Bucket capacity (ea / 6)	2 / 8	2 / 8	2 / 8
Max. height tube fit (mm)	123	123	123
Max.radius(mm)	150.9	150.9	150.9
Max.RCF(g-force)	2,700	2,700	2,700








Bio-Safe

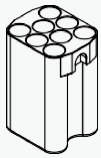
Porton Down Certified



15 mL Dual Conical Bucket
with a Cap,
GLBB-bdc15-100

Max. RPM / RCF : 4,000 / 2,774
Max. Radius (mm) : 155.1
Hole dimension (Ø x L,mm) : 17 x 97.5
Max. height for tube fit (mm) : 120 (w/ cap) / 125 (w/o cap)
Hole bottom type : Conical
Supplied with a cap and O-ring, No cap version is available

Tube				
Tube capacity (mL)	5 mL conical	5 mL conical	14 mL	15 mL conical
Tube Dimension (Φ x 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)	-
Bucket capacity (ea / 6)	2 / 8	2 / 8	2 / 8	2 / 8
Adaptorholedimension(ΦxL,mm)	14.8 x 20	14.8 x 20	16 x 7.8	-
Adaptor hole bottom type	Conical	Conical	Round	-
Max. radius (mm)	102	102	115.1	155.1
Max. RCF (g-force)	1,826	1,826	2,059	2,774



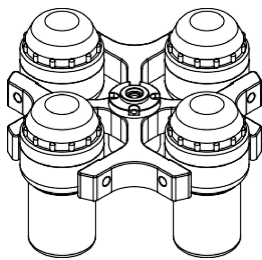
Vacutainer 10 mL Bucket,
GLB-15-8-100

Max. RPM / RCF : 4,000 / 2,719
 Max. Radius (mm) : 152
 Hole dimension (Ø x L, mm) : 17 x 86
 Hole bottom type : Flat
 Max. height for tube fit (mm) : 115
 Supplied with 3.0 mm thick NBR rubber pad

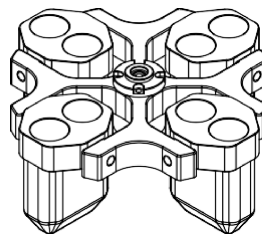
Tube									
Tube capacity (mL)	2.0 ~ 4 mL VT	4 ~ 7 mL VT	5 mL conical	5 mL conical	14 mL	8 ~ 10 mL VT	15 mL glass	15 mL open top	15
Tube Dimension (Φ x L, mm)	13 x 75	13 x 100	16 x 59	16 x 67	15.7 x 96	16 x 100	16 x 100	16 x 114	16 x 120
Adapter						None	None	None	None
Cat No.	GAS-3(f15)	GAS-5(f15)	GAS-c5(f15)	GAS-c5(f15)	GAS-14(f15)	-	-	-	-
Bucket capacity (ea / 6)	8 / 32	8 / 32	4 / 16	4 / 16	4 / 16	8 / 32	8 / 32	8 / 32	2 / 8
Adaptor hole dimension (Φ x L, mm)	13.5 x 61	13.5 x 85	14 x 20	14 x 20	16.5 x 7	-	-	-	-
Adaptor hole bottom type	Round	Open	Conical	Conical	Round	-	-	-	-
Max. height tube fit (mm)	88	115	75	75	103.5	115	115	115	125(center)
Max. radius (mm)*	125	156.6	112	112	140.5	152	152	152	152
Max. RCF (g-force)*	2,236	2,719	2,003	2,003	2,513	2,719	2,719	2,719	2,719

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

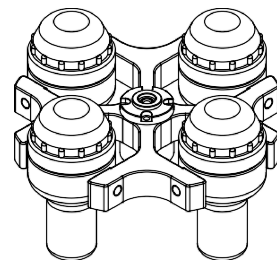
Adaptable Buckets of Rotor, GRS-S-100-4



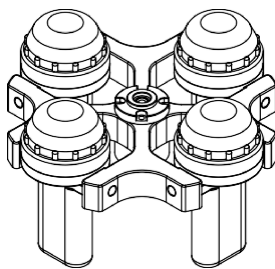
GLBB-b100-100



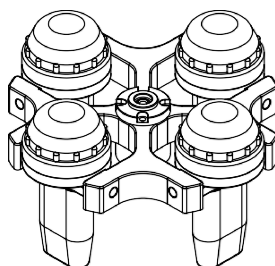
GLBB-dc50-100



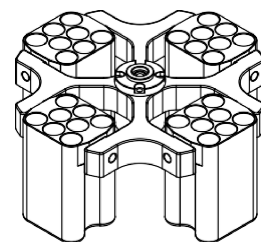
GLB-b50-100



GLB-bd15-100



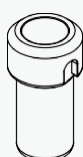
GLBB-bdc15-100



GLB-15-8-100

















Swing Rotor, GRS-S-50-4

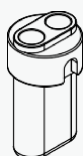
- 4 loadings
- Max. RPM : 4,000
- Angle from axis during rotation: $\angle 90^\circ$
- Supplied with a lubricant
- No ID ring



50 mL Bucket,
GLB-50-50




Max. RPM / RCF : 4,000 / 2,700
 Max. Radius (mm) : 150.9
 Hole dimension (\varnothing x L, mm) : 30.5 x 91
 Max. height for tube fit (mm) : 125
 Hole bottom type : Flat
 Supplied with 4.0 mm thick NBR pad

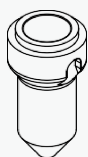
Tube									
Tube capacity (mL)	14 mL	15	15 mL conical	25 mL conical	25 mL conical	30	50 mL conical	50 mL conical (Skirt)	50
Tube Dimension (\varnothing x L, mm)	15.7 x 96	16 x 120	17 x 120	28.8 x 83	28.8 x 78.5	25.7 x 101.4	29.5 x 118	29.5 x 118	29 x 108
Adapter								None	None
Cat No.	GAS-u14(f50)	GAS-u15(f50)	GAS-u15(f50)	GAS-c25(f50)	GAS-c25(f50)	GAS-30(f50)	GAS-c50(f50)	-	-
Adaptorhole dimension (\varnothing x L, mm)	17.2 x 75	17.2 x 87	17.2 x 87	27.1 x 14.1	27.1 x 14.1	26 x 86.5	29.5 x 17.5	-	-
Adaptor hole bottom type	Open	Open	Open	Conical	Conical	Round	Conical	-	-
Max. radius (mm)	150.9	150.9	150.9	117.1	117.1	142.1	142	150.9	150.9
Max. RCF (g-force)	2,700	2,700	2,700	2,095	2,095	2,542	2,540	2,700	2,700



15 mL Dual Round Bucket,
GLB-d15-50












Max. RPM / RCF : 4,000 / 2,700
 Max. Radius (mm) : 150.9
 Hole dimension (\varnothing x L, mm) : 17 x 91.5
 Max. height for tube fit (mm) : 125
 Hole bottom type : Round

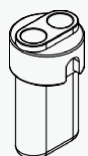
Tube			
Tube capacity (mL)	15 mL glass	15 mL open top	15
Tube Dimension (\varnothing x L, mm)	16 x 100	16 x 114	16 x 120
Max. height tube fit (mm)	125	125	125
Max. radius (mm)	150.9	150.9	150.9
Max. RCF (g-force)	2,700	2,700	2,700



50 mL Bucket,
GLB-c50-50








Max. RPM / RCF : 4,000 / 2,700
 Max. Radius (mm) : 150.9
 Hole dimension (Ø x L,mm) : 29.5 x 91.5
 Max. height for tube fit (mm) : 125
 Hole bottom type : Conical

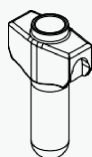
Tube						
Tube capacity (mL)	15 mL conical	25 mL conical	25 mL conical	30	50	50 mL conical
Tube Dimension (Φ x L, mm)	17 x 120	28.8 x 83	28.8 x 78.5	25.7 x 101.4	29 x 108	29.5 x 118
Adapter						None
Cat. No.	GAS- c15(c50)	GAS- c25(c50)	GAS- c25(c50)	GAS- 30(c50)	GAS- 50(c50)	-
Rack hole dimension (Φ x L,mm)	17 x 105	27.1 x 14.1	27.1 x 14.1	26 x 83.8	27.9 x 11	-
Rack hole bottom type	Conical	Conical	Conical	Round	Round	-
Max. radius (mm)	150.9	119.9	119.9	145.3	145.5	150.9
Max. RCF (g-force)	2,700	2,145	2,145	2,599	2,578	2,700



15 mL Dual Conical Bucket,
GLB-dc15-50




Max. RPM / RCF : 4,000 / 2,700
 Max. Radius (mm) : 150.9
 Hole dimension (Ø x L,mm) : 17 x 91.5
 Max. height for tube fit (mm) : 120
 Hole bottom type : Conical

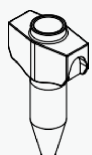
Tube				
Tube capacity (mL)	5 mL conical	5 mL conical	14 mL	15 mL conical
Tube Dimension (Φ x L, mm)	16 x 59	16 x 67	15.7 x 96	17x120
Adapter				None
Cat No.	GAS- c5(c15)	GAS- c5(c15)	GAS- 14(c15)	-
Adaptorhole dimension (Φ x L,mm)	14.8 x 20	14.8 x 20	16 x 7.8	-
Adaptor hole bottom type	Conical	Conical	Round	-
Max. radius (mm)	98.6	98.6	131.6	150.9
Max. RCF (g-force)	1,826	1,826	2,354	2,700



15 mL Round Bucket,
GLB-15-50








Max. RPM / RCF : 4,000 / 2,700
 Max. Radius (mm) : 150.9
 Hole dimension (Ø x L, mm) : 17 x 93
 Max. height for tube fit (mm) : 125
 Hole bottom type : Round

Tube			
Tube capacity (mL)	15 mL glass	15 mL open top	15
Tube Dimension (Φ x L,mm)	16 x 100	16 x 114	16 x 120
Max. height tube fit (mm)	125	125	125
Max. radius (mm)	150.9	150.9	150.9
Max. RCF (g-force)	2,700	2,700	2,700



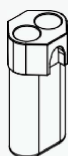
15 mL Conical Bucket,
GLB-c15-50

Max. RPM / RCF : 4,000 / 2,700
 Max. Radius (mm) : 150.9
 Hole dimension (Ø x L, mm) : 17 x 92.5
 Max. height for tube fit (mm) : 125
 Hole bottom type : Conical

Tube				
Tube capacity (mL)	5 mL conical	5 mL conical	14 mL	15 mL conical
Tube Dimension (Φ x 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 (Φ x L, mm)	14.8 x 20	14.8 x 20	16 x 7.8	-
Adaptor hole bottom type	Conical	Conical	Round	-
Max. radius (mm)	99.8	99.8	132.8	150.9
Max. RCF (g-force)	1,785	1,785	2,376	2,700

Swing Rotor, GRS-S-15-6

- 6 loadings
- Max. RPM : 4,000
- Angle from axis during rotation: $\angle 90^\circ$
- Rotor dimension / weight ($\Phi \times L$, mm / g) : 198.2 x 44 / 573
- Supplied with a lubricant, No ID ring

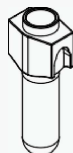


15 mL Dual Round Bucket,
GLB-d15-15

Max. RPM / RCF : 4,000 / 2,737
 Max. Radius (mm) : 153
 Hole dimension ($\Phi \times L$, mm) : 17 x 88
 Max. height for tube fit (mm) : 122
 Hole bottom type : Flat with rubber pad
 Supplied with 3.0 mm thick NBR rubber pad

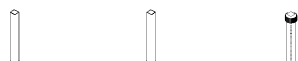


Tube	2.0 ~ 4 mL VT	4 ~ 7 mL VT	8 ~ 10 mL VT
Tube capacity (mL)	2.0 ~ 4 mL VT	4 ~ 7 mL VT	8 ~ 10 mL VT
Tube Dimension ($\Phi \times L$, mm)	13 x 75	13 x 100	16 x 100
Adapter			None
Cat No.	GAS-3(f15)	GAS-5(f15)	-
Bucket capacity (ea / 4)	2 / 12	2 / 12	2 / 12
Adaptorhole dimension ($\Phi \times L$, mm)	13.5 x 61	13.5 x 85	-
Adaptor hole bottom type	Round	Open	-
Max. height tube fit (mm)	95	123	123
Max. radius (mm)	126	153	153 Max.
RCF (g-force)	2,164	2,737	2,737



15 mL Round Bucket,
GLB-15-15

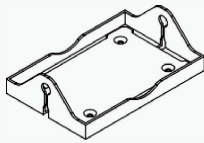
Max. RPM / RCF : 4,000 / 2,826
 Max. Radius (mm) : 158
 Hole dimension ($\Phi \times L$, mm) : 17 x 93
 Max. height for tube fit (mm) : 125
 Hole bottom type : Round



Tube	15 mL glass	15 mL open top	15
Tube capacity (mL)	15 mL glass	15 mL open top	15
Tube Dimension ($\Phi \times L$, mm)	16 x 100	16 x 114	16 x 120
Max. height tube fit (mm)	120	120	120
Max. radius (mm)	158	158	158
Max. RCF (g-force)	2,826	2,826	2,826

Swing Rotor, GRS-S-mw-2

- 2 loadings
- Max. RPM : 4,000
- Angle from axis during rotation: $\angle 90^\circ$
- Supplied with microplate holder, No ID ring



Microplate Bucket,
GLP-mw

Max. RPM / RCF : 4,000 / 2,000
 Max. Radius (mm) : 111.8
 Hole dimension (w x d, mm) : 86.5 x 128.5
 Max. height for tube fit (mm) : 35
 Supplied with 3.0 mm thick ABS pad



Tube

Tube capacity (mL)	MTP
Tube Dimension (Φ x L,mm)	86 x 128 x15
Bucket capacity (ea / 2)	2 / 4

624R Low-speed Centrifuge



Features

- Speed : 6,000 rpm (3,960 xg); 4,800 rpm (3,888 xg)
- Capacity : 10 x 50 mL / c50 mL ; 24 x 15 mL ; 24 x 2.0 mL
- Fast cooling allows a temperature drop to 4°C within 5 minutes : function for quick start of cooled samples
- Compressor-off function : minimizes unnecessary cooling and frosting when lid is open
- Intuitive control interface with numeric input buttons allows easy setting and editing of running conditions
- Selectable time mode of “from starting” and “At Set SPEED” which is meant to start counting the running time when set speed is reached

Technical Specifications












Max. RPM/PCF for Fixed Angle	6,000 rpm / 3,960 xg
Max. RPM/PCF for Swing-out	4,800 rpm / 3,888 xg
Max. Capacity for Fixed Angle	6 x 50 mL
Max. Capacity for Swing-out	4 x 100 mL, 4 x 8 vacutainer tube, 2 x 2 MTPs
Temp. range (°C)	-10°C to 40°C
FAST cool button	Yes
Time control	Pulsed, timed <10 hr or continuous
Time counting range	Selectable, at set speed or from starting
Noise level (dependent on rotor)	≤60 dB

RCF/RPM conversion	Yes
ACC/DEC Ramps	9/10
Program Memory	100
Power Supply	AC 230V, 50Hz (AC 220-230V, 60/50Hz; 110V optional)
Power Requirement	900 VA
Dimension (W x D x H)	584 x 535 x 317 mm
Net Weight	65 kg
CE MARK	Yes
Cat No.	GZ-0624R

Fixed Angle Rotor, GRF-SR-50-6

- Capacity : 6 x 50 mL
- Max. RPM / RCF : 6,000 / 3,824
- Hole angle from axis during rotation : $\angle 25^\circ$
- Hole dimension (\varnothing x L, mm) : 29.5 x 95.4
- Hole bottom type : Round
- Max. height for tube fit (mm) : 120
- Supplied with a lid and an O-ring inserted














						
Tube						
Tube capacity (mL)	15	15 mL conical	25 mL conical	25 mL conical	30	50
Tube Dimension (\varnothing x L, mm)	16 x 120	17 x 120	28.8 x 83	28.8 x 78.5	25.7 x 101.4	29 x 108
Adapter						None
Cat No.	GAS-15(50)	GAS-c15(50)	GAS-c25(50)	GAS-c25(50)	GAS-30(50)	-
Adaptor hole dimension (\varnothing x L, mm)	17 x 94	17 x 105	27.1 x 14.1	27.1 x 14.1	26 x 83.8	-
Adaptor hole bottom type	Round	Conical	Conical	Conical	Round	-
Max. radius (mm)	88.9	91	78.9	78.9	91.8	95
Max. RCF (g-force)	3,578	3,663	3,188	3,188	3,695	3,824

Fixed Angle Rotor, GRF-SR-c50-6

- Capacity : 6 x 50 mL conical
- Max. RPM / RCF : 6,000 / 3,960
- Hole angle from axis during rotation : $\angle 25^\circ$
- Hole dimension (\varnothing x L, mm) : 30 x 108.6
- Hole bottom type : Conical
- Max. height for tube fit (mm) : 125
- 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 x 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 x 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)	93.6	82.5	82.5	94.8	95.8	98.4
Max. RCF (g-force)	3,767	3,320	3,320	3,816	3,856	3,960

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

- Capacity : 24 x 1.5/2.0 mL | Max. RPM / RCF : 6,000 / 3,393
- Hole angle from axis during rotation : $\angle 45^\circ$ | Hole dimension (\varnothing x L, mm) : 11.1 x 39
- Hole bottom type : Round | Max. height for tube fit (mm) : 52
- Supplied with a lid and O-ring inserted



Tube				
Tube capacity (mL)	0.2	0.5	1.5/2.0	2.0 mL screw cap
Tube Dimension (Φ x 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 (Φ x 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)	2,697	2,938	3,393	3,393

















Angle Rotor, GRA-SR-50-10

- Capacity : 10 x 50 mL or 50 mL Conical | Max. RPM / RCF : 4,000 / 2,508
- Hole angle rotation : $\angle 45^\circ$ | Hole dimension (\varnothing x L, mm) : 32.2 x 13.5
- Supplied with 10 sleeves, No ID ring



50 mL Sleeve,
GLB-50s-50A

Max. RPM / RCF : 4,000 / 2,549
 Hole dimension (\varnothing x L, mm) : 30 x 99
 Max. height for tube fit (mm) : 130
 Hole bottom type : Flat bottom with rubber pad
 Supplied with 3.5 mm thick NBR pad

Tube									
Tube capacity (mL)	14 mL	15	15 mL conical	25 mL conical	25 mL conical	30	50	50 mL conical	50 mL conical (Skirt)
Tube Dimension (Φ x L, mm)	15.7 x 96	16 x 120	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-u14(f50)	GAS-u15(f50)	GAS-u15(f50)	GAS-c25(f50)	GAS-c25(f50)	GAS-30(f50)	-	GAS-c50(f50)	-
Rack hole dimension (Φ x L, mm)	17.2 x 75	17.2 x 87	17.2 x 87	27.1 x 14.1	27.1 x 14.1	26 x 86.5	-	29.5 x 17.5	-
Rack hole bottom type	Open	Open	Open	Conical	Conical	Round	-	Conical	-
Max. radius (mm)	141.9	141.9	141.9	115	115	135	142.5	142.5	142.5
Max. RCF (g-force)	2,538	2,538	2,538	2,057	2,057	2,415	2,549	2,549	2,549












Angle Rotor, GRA-SR-c50-10

- Capacity : 10 x 50 mL or 50 mL Conical | Max. RPM / RCF : 4,000 / 2,508
- Hole angle rotation : $\angle 45^\circ$ | Hole dimension ($\varnothing \times L$, mm) : 32.2 x 13.5
- Supplied with 10 sleeves, No ID ring



50 mL Sleeve,
GLB-c50s-50A

Hole dimension ($\varnothing \times L$, mm) : 31 x 99
Max. height for tube fit (mm) : 130
Hole bottom type : Conical

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	28.8x83	28.8x78.5	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)	-
Adaptorholedimension($\Phi \times L$,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)	139.6	115	115	135.5	136.1	140
Max. RCF (g-force)	2,497	2,057	2,057	2,424	2,435	2,508














Angle Rotor, GRA-SR-15-24

- Capacity : 24 x 15 mL (12 outer, 12 inner)
- Max. RPM / RCF : 4,000 / 2,773
- Hole angle rotation : $\angle 45^\circ$ | Hole dimension ($\varnothing \times L$, mm) : 20.4 x 10
- Supplied with 24 sleeves | Rotor ID ring underneath the rotor body



15 mL Sleeve,
GLB-15/10A

Hole dimension ($\varnothing \times L$, mm) : 18 x 87
Max. height for tube fit (mm) : 125 (120 for conical / wider cap)
Hole bottom type : Flat bottom with rubber pad
Supplied with 3.0 mm thick NBR pad

Tube								
Tube capacity (mL)	2.0 ~ 4 mL VT	4 ~ 7 mL VT	5 mL conical	5 mL conical	14 mL	8 ~ 10 mL VT	15	15 mL conical
Tube Dimension ($\Phi \times L$, mm)	13 x 75	13 x 100	16 x 59	16 x 67	15.7 x 96	16 x 100	16 x 120	17 x 120
Adapter						None	None	None
Cat No.	GAS-3(f15)	GAS-5(f15)	GAS-c5(f15)	GAS-c5(f15)	GAS-14(f15)	-	-	-
Adaptorholedimension($\Phi \times L$,mm)	13.5 x 61	13.5 x 85	14 x 20	14 x 20	16.5 x 7	-	-	-
Adaptor hole bottom type	Round	Open	Conical	Conical	Round	-	-	-
Max. radius (mm)*	inner 116.3 outer 132.3	inner 136.8 outer 152.8	inner 105.3 outer 121.3	inner 105.3 outer 121.3	inner 126.5 outer 142.5	inner 138 outer 155	inner 138 outer 155	inner 138 outer 155
Max. RCF (g-force)*	inner 2,080 outer 2,367	inner 2,447 outer 2,733	inner 1,884 outer 2,170	inner 1,884 outer 2,170	inner 2,263 outer 2,549	inner 2,469 outer 2,773	inner 2,469 outer 2,773	inner 2,469 outer 2,773

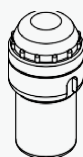
Swing Rotor, GRS-SR-100-4

- 4 loadings
- Max. RPM : 4,200
- Angle from axis during rotation : $\angle 90^\circ$
- Rotor dimension / weight ($\varnothing \times L$, mm / g) : 206.3 x 53.5 / 860
- Supplied with a lubricant, No ID ring



Bio-Safe

Porton Down Certified

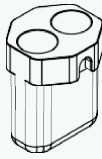


100 mL Bucket with a Cap,
GLBB-b100-100

Max. RPM / RCF : 4,200 / 3,059
 Max. Radius (mm) : 155.1
 Hole dimension ($\varnothing \times L$, mm) : 47 x 99
 Max. height for tube fit (mm) : 120 (w/ cap) / 130 (w/o cap)
 Hole bottom type : Flat
 Supplied with a cap and an O-ring, No cap version is available

Tube									
Tube capacity (mL)	1.5 ~ 2.0	2.0 mL screw cap	5 mL conical	5 mL conical	2.6 ~ 7	4 ~ 10	15	15 mL conical	15 mL conical
Tube Dimension ($\varnothing \times L$, mm)	11 x 38	10.1 x 46	16 x 59	16 x 67	13 x 75	16 x 100	16 x 120	17 x 120	17 x 120
Adapter									
Cat. No.	GAM-m2.0-6(b100)	GAM-m2.0-6(b100)	GAM-c5-3(b100)	GAM-c5-3(b100)	GAM-7-5(b100)	GAM-10-5(b100)	GAM-15-3(b100)	GAM-15-3(b100)	GAS-c15(b100)
Rack capacity (ea / 4)	6 / 24	6 / 24	3/12	3/12	5 / 20	5 / 20	3 / 12	3 / 12	3 / 4
Rack hole dimension ($\varnothing \times L$, mm)	11 x 39	11 x 39	17.2 x 52	17.2 x 52	13.5 x 60	16 x 60	17.5 x 105	17.2 x 106.5	17.2 x 106.5
Rack hole bottom type	Round	Round	Conical	Conical	Round	Flat	Flat	Conical	Conical
Max. height tube fit (mm)	115	115	75	75	115	115	120	120	120
Max. radius (mm)*	150.1	150.1	110.1	110.1	150.1	150.1	152.1	155.1	155.1
Max. RCF (g-force)*	2,960	2,960	2,171	2,171	2,960	2,960	3,000	3,059	3,059

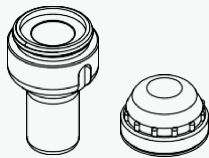
Tube								
Tube capacity (mL)	25 mL conical	25 mL conical	30	50	50 mL conical	50 mL conical (Skirted)	85	100
Tube Dimension ($\varnothing \times L$, mm)	28.8 x 83	28.8 x 78.5	25.7 x 101.4	29 x 108	29.5 x 118	29.5 x 118	38 x 106	44 x 115
Adapter								
Cat. No.	GAS-c25(b100)	GAS-c25(b100)	GAS-30(b100)	GAS-50(b100)	GAS-c50(b100)	GAS-sc50(b100)	GAS-85(b100)	GAS-100(b100)
Rack capacity (ea / 4)	1 / 4	1 / 4	1 / 4	1 / 4	1 / 4	1 / 4	1 / 4	1 / 4
Rack hole dimension ($\varnothing \times L$, mm)	17.2 x 52	17.2 x 52	26 x 86	29.5 x 95.9	30 x 100	29.8 x 100	38.5 x 96.4	44.2 x 93
Rack hole bottom type	Conical	Conical	Round	Round	Conical	Flat	Round	Round
Max. height tube fit (mm)	118	118	118	118	120	120	118	118
Max. radius (mm)*	153.5	153.5	153.5	153	153	153	153.5	150.1
Max. RCF (g-force)*	3,027	3,027	3,027	3,017	3,017	3,017	3,027	2,960



50 mL Conical Bucket,
GLB-dc50-100

Max. RPM / RCF : 4,200 / 3,059
 Max. Radius (mm) : 155.1
 Hole dimension (Ø x L, mm) : 30 x 89
 Max. height for tube fit (mm) : 125
 Hole bottom type : Conical

Tube						
Tube capacity (mL)	15 mL conical	25 mL conical	25 mL conical	30	50	50 mL conical
Tube Dimension (Φ x 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(50)	GAS-c25(c50)	GAS-c25(c50)	GAS-30(c50)	GAS-50(c50)	-
Bucket capacity(ea / 6)	2 / 8	2 / 8	2 / 8	2 / 8	2 / 8	2 / 8
Adaptorhole dimension(ΦxL,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)	152.5	118.5	118.5	143.9	144.1	155.1
Max. RCF (g-force)	3,008	2,337	2,337	2,838	2,842	3,059



50 mL Bucket with a Cap,
GLB-b50-100

Max. RPM / RCF : 4,200 / 2,976
 Max. Radius (mm) : 150.9
 Hole dimension (Ø x L, mm) : 30.5 x 97
 Max. height for tube fit (mm) : 120 (w/ cap) / 125 (w/o cap)
 Supplied with 4.0 mm thick NBR pad, an O-ring, and a cap
 No cap version is available

Tube									
Tube capacity (mL)	14 mL	15	15 mL conical	25 mL conical	25 mL conical	30	50 mL conical	50 mL conical (Skirt)	50
Tube Dimension (Φ x L, mm)	15.7 x 96	16 x 120	17 x 120	28.8 x 83	28.8 x 78.5	25.7 x 101.4	29.5 x 118	29.5 x 118	29 x 108
Adapter								None	None
Cat No.	GAS-u14(f50)	G, S-u15(f50)	C S-u15(f50)	GA-25(f50)	GAS-c25(f50)	GAS-c25(f50)	GAS-30(f50)	c50(f50)	-
Adaptorhole dimension(ΦxL,mm)	17.2 x 75	17.2 x 87	17.2 x 87	27.1 x 14.1	27.1 x 14.1	27.1 x 14.1	26 x 86.5	29.5 x 17.5	-
Adaptor hole bottom type	Open	Open	Open	Conical	Conical	Conical	Round	Conical	-
Max. radius (mm)	150.9	150.9	150.9	117.1	117.1	117.1	142.1	150.9	15
Max. RCF (g-force)	2,976	2,976	2,976	2,309	2,309	2,309	2,802	2,976	2,9