

1.1 Micro Centrifuges

1730R



LABOGENE refrigerated High-speed micro centrifuge, 1730R is a must-have for the experiments in molecular and cellular biology. It can accommodate up to 30 microtubes or 12 x 5 mL tubes. With the most popular 24 hole micro-rotor, maximum 17,000 rpm (27,237 xg) can be reached even at 4°C. Its powerful refrigeration system specifies the temperature range from -20°C to + 40°C and offers "FASTCOOL" function of cooling down to 4°C in 5 minutes. All rotor types have been extended to the new "Easy-Lock" lid, allowing easy and convenient rotor lid opening and closing. The Teflon-coated chamber of 1730R is more resistant to organic solvents, reactive or corrosive chemicals. The powerful and compact refrigerated micro centrifuge 1730R is one of the best products in the LABOGENE portfolio. It will be a perfect tool to get the results you want in your laboratory.

Features

- The refrigerated microcentrifuge, 1730R is a "must-have" item for molecular and cellular lab works with max. speed of 17,000 rpm (27,237 xg)
- Maximum capacity for 12 x 5 mL tubes or 30 x 1.5/2.0 mL tubes or 18 microfilter tubes or 64 PCR tubes
- Fast cooling function to 4°C in 5 minutes for fast start up of cooled samples
- The compressor-off function when lid is open minimizes unnecessary cooling and frosting.
- Teflon coated rust-free chamber
- Very quiet operation at less than 56 dB allows for comfortable laboratory environment.
- Selectable time mode of "at set SPEED" for counting running time only when reached the set speed
- A separate "PULSE" key for quick spin
- Parameters can be changed during operation.
- Key lock function helps the set parameters secured during operation.

Outstanding Features

- Blue LCD display
- Automatic rotor Identification
- Imbalance cut-off
- Safety lid lock
- Lid drop protection

Technical Specifications

1730R

Max. RPM/PCF Fixed Angle	17,000 rpm / 27,237 xg	Noise level (dependent on rotor)	≤56 dB
Max. RPM/PCF Swing-out	13,000 rpm / 16,343 xg	ACC/DEC ramps	9/10
Max. Capacity Fixed Angle	30 x 1.5/2.0 mL, 12 x 5.0 mL, 8 PCR strips	Program memory	100
Max. Capacity Swing-out	4 x 4 x 1.5/2.0 mL	Power supply (V/Hz)	220~230 V, 60/50 Hz (110 V optional)
Temp. range (°C)	-20°C to 40°C	Power Requirement (VA)	2KVA
FAST cool button	Yes	Dimension (W x D x H)	310 x 620 x 290 mm
Time control	Pulse, timed <100 min or continuous	Net weight	43 kg
Time counting range	Selectable, at set speed or from starting	CE MARK	Yes
RCF/RPM conversion	Yes		

Ordering Information

Cat. No.	Description
Main Body	
LZ-1730R	1730R, Microcentrifuge without Rotor (220V, 50/60Hz)
LZ-1730RM	1730R, Microcentrifuge without Rotor (220V, 50/60Hz) - registered as medical device at MFDS

Rotors for 1730R	
GRE-M-m2.0-24	Fixed Angle Rotor GRE-M-m2.0-24, Easy Lock of 1730R with aluminum lid for 24 microtubes
GRE-M-m2.0-30	Fixed Angle Rotor GRE-M-m2.0-30, Easy Lock of 1730R with aluminum lid for 30 microtubes
GRE-M-m5.0-12	Fixed Angle Rotor GRE-M-m5.0-12, Easy Lock of 1730R with aluminum lid for 12 of 5 mL tubes
GRE-M-s0.2-64	Fixed Angle Rotor GRE-M-s0.2-64, Easy Lock of 1730R with aluminum lid for 8 rows of PCR strips
GRD-M-m2.0-8	Drum Rotor of 1730R for 8 microtubes
GRD-M-m2.0-16	Drum Rotor of 1730R for 16 microtubes

Buckets for the rotors of 1730R	
GLB-m2.0(8)	Single Tube Bucket, GLB-m2.0, for Drum Rotor GRD-M-m2.0-8
GLB-m2.0-4(16)	Multi Tube Bucket, GLB-m2.0-4, for Drum Rotor GRD-M-m2.0-16

GAS-m0.2(2)	0.2 mL Adaptor of microtube rotors
GAS-m0.5(2)	0.5 mL Adaptor of microtube rotors








Fixed Angle Rotor
GRE-M-m2.0-24

24 x 1.5/2.0 mL

∠ 45°

Hole Diameter (mm) 11.1

Max. height for tube fit (mm) 52

Tube			
Tube capacity (mL)	0.2	0.5	1.5/2.0
Adaptor			None
Cat. No.	GAS-m0.2(2)	GAS-m0.5(2)	-
Adaptor bore (Φ x L, mm)	6.5 x 23	8 x 31	-
Radius (mm)	67	73	84.3
Max. RPM	17,000	17,000	17,000
Max. RCF (g-force)	21,648	23,910	27,237








Fixed Angle Rotor
GRE-M-m2.0-30

30 x 1.5/2.0 mL

∠ 45°

Hole Diameter (mm) 11.1

Max. height for tube fit (mm) 52

Tube			
Tube capacity (mL)	0.2	0.5	1.5/2.0
Adaptor			None
Cat. No.	GAS-m0.2(2)	GAS-m0.5(2)	-
Adaptor bore (Φ x L, mm)	6.5 x 23	8 x 31	-
Radius (mm)	79	86	96.4
Max. RPM	14,000	14,000	14,000
Max. RCF (g-force)	17,311	18,845	21,124



Fixed Angle Rotor
GRE-M-m2.0-18

18 x 1.5/2.0 mL

∠ 45°

Hole Diameter (mm) 11.1

Max. height for tube fit (mm) 65

Tube



Tube capacity (mL) 0.2 0.5 1.5/2.0 2.0 mL filter tube

Adaptor



Cat. No. GAS-m0.2(2) GAS-m0.5(2) - -

Adaptor bore (Φ x L, mm) 6.5 x 23 8 x 31 - -

Radius (mm) 57.8 63.8 75.1 64.2

Max. RPM 15,000 15,000 15,000 15,000

Max. RCF (g-force) 14,540 16,049 18,891 16,150



PCR Rotor
GRE-M-s0.2-64

64 x 0.2 mL, 8 x 8 - tube PCR strips

∠ 34°

Hole Diameter (mm) 6.5

Max. height for tube fit (mm) 16

Tube



Tube capacity (mL) 0.2 8-Strip tube

Radius (mm) 1st : 58.6 / 2nd : 67.1


Max. RPM 12,500

Max. RCF (g-force) 1st : 10,237 / 2nd : 11,722



Fixed Angle Rotor
GRE-M-m5.0-12






12 x 5.0 mL	
∠ 45°	
Hole Diameter (mm)	17
Max. height for tube fit (mm)	68

Tube	
Tube capacity (mL)	5.0
Adaptor	None
Cat. No.	-
Adaptor bore (Φ x L, mm)	-
Radius (mm)	91.3
Max. RPM	15,000
Max. RCF (g-force)	22,967



Fixed Angle Rotor
GRD-M-m2.0-8

8 x 1.5/2.0 mL	
∠ 90°	
Hole Diameter (mm)	11.1
Max. height for tube fit (mm)	48

Tube			
Tube capacity (mL)	0.2	0.5	1.5/2.0
Adaptor			None
Cat. No.	GAS-m0.2(2)	GAS-m0.5(2)	-
Adaptor bore (Φ x L, mm)	6.5 x 23	8 x 31	-
Radius (mm)	68.5	76.5	86.5
Max. RPM	13,000	13,000	13,000
Max. RCF (g-force)	12,943	14,454	16,343



Bucket
GLB-m2.0(8)








Fixed Angle Rotor
GRD-M-m2.0-16

16 x 1.5/2.0 mL	
∠ 90°	
Hole Diameter (mm)	11.1
Max. height for tube fit (mm)	43



Bucket
GLB-m2.0-4(16)

Tube			
Tube capacity (mL)	0.2	0.5	1.5/2.0
Adaptor			None
Cat. No.	GAS-m0.2(2)	GAS-m0.5(2)	-
Adaptor bore (Φ x L, mm)	6.5 x 23	8 x 31	-
Radius (mm)	66	74	83
Max. RPM	13,000	13,000	13,000
Max. RCF (g-force)	12,470	13,982	15,682