

## LMC-3000, Laboratory Centrifuge

**LMC-3000** is a modern low-speed bench-top centrifuge designed for operation with microtest plates and centrifuge tubes up to 50 ml, Gel Cards. This device is widely used in biomedical profile laboratories.

#### FEATURES:

- Soft start and run-down of the rotor;
- User-friendly setting of centrifugation parameters and simultaneous display of both set and actual values;
- Safe operation at any speed is provided by metal protection chamber and case cover, automatic stop at imbalance and a lock keeping the lid closed while the centrifuge is running;
- Low noise level;
- Rotor selection;
  NEW FUNCTIONS
- Setting rotor speed in RPM or RCF (Relative Centrifugal Force);
- Multiple acceleration (Slow, Normal, Fast) and deceleration (0, Slow, Normal, Fast) modes and possibility to switch off forced braking;
- Wide choice of accessory rotors.

Speed regulation range for centrifuge tubes	100–3,000 rpm (1,610 ×g)	
Speed regulation range for microtitre plates	100–2,000 rpm (560×g)	
Setting resolution	100 rpm	
Rotor imbalance diagnostics (automatic stop, "IMBALANCE" warning)		
Display	LCD, 2×16 signs	
Digital time setting	1–90 min (increment 1 min)	
Chamber diameter	335 mm	
Overall dimensions (W×D×H)	495×410×235 mm	
Weight	11.8 kg	
Nominal operating voltage 230 V,	50/60 Hz or 120 V, 50/60 Hz	
Power consumption (230 / 120 V)	110 W (0.5 A) / 120 W (1 A)	

ORDERING INFORMATION:

LMC-3000 without rotors BS-010208-AAA











Cat. number





## LMC-4200R, Laboratory Refrigerated Centrifuge







Product video is available on the website

#### Rotor R-12/10 and icy layer on the chamber walls



Laboratory bench-top centrifuge with refrigeration LMC-4200R provides temperature control of biomaterial during centrifugation. Temperature control of the so-called "cold-shelf" is a gold standard for enzymologists and cell biologists because it ensures conditions necessary for reproducibility of the sample preparation stage. Temperature control absence at this stage can cause unpredictable results.

**LMC-4200R** is a modern centrifuge designed for operation with microtest plates, Gel Cards and tubes from 2 to 50 ml.

#### FEATURES:

- Effective way of acceleration and deceleration: Run-up time 20 sec; Run-down time. not more 30 sec:
- Efficient rate of chamber refrigeration: under 10 min;
- Maintenance of stable temperature during operation;
- User-friendly setting of centrifugation parameters (speed, temperature, time) and simultaneous display of both set and actual values;
- Safe operation is provided by a metal protection chamber and a case cover, automatic stop at imbalance (emergency shutdown, "IMBALANCE" displayed) and a lock keeping the lid closed while the centrifuge is running;
- · Low noise level;
- Possibility to switch off forced braking;
- Wide choice of accessory rotors;
- Rotor selection;
- Setting rotor speed in RPM or RCF (Relative Centrifugal Force);

NEW FUNCTIONS

- Multiple acceleration (Slow, Normal, Fast) and deceleration (0, Slow, Normal, Fast) modes and possibility to switch off forced braking;
  - \* The new features will be available from middle of 2017. To follow the updates - subscribe to the newsletter at our website: www.biosan.lv

LMC-4200R without rotors	BS-010212-AAA
ORDERING INFORMATION:	Cat. number
Power consumption (230 V)	990 W (4.3 A)
Nominal operating voltage	230 V, 50 Hz
Weight	56 kg
Dimensions ( $W \times D \times H)$	635×580×335 mm
Chamber diameter	335 mm
Digital time setting	1–90 min (increment 1 min)
Display	LCD, 2 lines
Slowdown time, not more	30 sec
Rotor imbalance diagnostics (automatic stop, "IMBALANCE" v	varning)
Speed setting resolution	100 rpm
Speed regulation range for microtitre plates	100–2,000 rpm (560×g)
Speed regulation range for centrifuge tubes	100–4,200 rpm (3,155×g)
Temperature setting resolution	1°C
Stable temperature maintenance range	25°C below ambient to +25°C
Temperature control range	–10°C +25°C

Biosan SIA., Ratsupites 7, build. 2, Riga, LV-1067, Latvia, Phone: +371 674 261 37, Fax: +371 674 281 01, E-mail: marketing@biosan.lv, <u>http://www.biosan.lv</u>



# Interchangeable Rotors and Accessories for LMC-3000 and LMC-4200R

#### NEW ROTOR FOR LMC-4200R



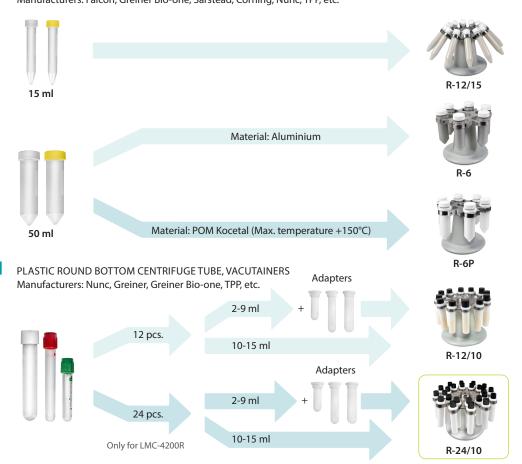


		Rotor <b>R-12/10</b>	Rotor <b>R-24/10</b>	Rotor <b>R-6</b>	Rotor <b>R-6P</b>
Rotor type		Swing-out			
Dimensions (Ø×length) Capacity		16×105 mm		29×115 mm	
		12	24	6	
Tube's volume		10-15 ml		50 ml	
Max. speed		4,200 rpm	4,000 rpm	4,200 rpm	
	LMC-3000	1,610×g	Not applicable	1,61	0×g
Max. RCF:	LMC-4200R	3,155×g	2,860×g	3,155×g	
Cat. number:		BS-010208-BK	BS-010212-JK	BS-010208-DK	BS-010208-XK

#### HOW TO CHOSE ROTOR?

Rack RR-U

PLASTIC CONICAL BOTTOM CENTRIFUGE TUBE Manufacturers: Falcon, Greiner Bio-one, Sarstead, Corning, Nunc, TPP, etc.





### Interchangeable Rotors and Accessories for LMC-3000 and LMC-4200R

		Rack <b>RR-U</b>			
	Rotor <b>R-12/15</b>			Rotor <b>R-2</b>	Rotor R-24GC
	Angled Swing-out	Rotor type		Swing-out	
	17×120 mm	Dimensions (w×l) Capacity Max. height Max. speed		128×85.6 mm	53×74 mm
	12			2	24
	15 ml			up to 45 mm	_
	4,200 rpm			2,000 rpm	1,500 rpm
	1,610×g	Max. RCF:	LMC-3000	560 × g	280 × g
	3,155×g		LMC-4200R	560×g	280 × g
	BS-010208-EK	Cat. number:	:	BS-010208-AK	BS-010208-VK
I	STANDARD 96-WELL MICROTITRE PLA Manufacturers: Nunc, Greiner, Greiner E		WELL PLATES UI	P TO 45 MM	- iii



96-WELL PCR PLATE OR SEMI-/ UNSKIRTED PCR PLATE Manufacturers: Nunc, Greiner, Greiner Bio-one, etc.



48 319 🖓 Ct. 185



AP-96 Material: Ertacetal® C and is autoclavable



GEL CARDS Manufacturers: Grifols®, DiaMed®, Bio-Rad® etc.

R-24GC, Rotor for Gel Cards for blood group serology testing (Forward Group, Reverse Group, RhD Type and 3 cell antibody screen). Recommended centrifugation time - 9 minutes



R-2

R-2



R-24GC

Cat. number

Adapters* for R-2:			
AP-96	2 adapters for 96-well semi-skirted and non-skirted PCR plates		BS-010219-DK
Adapters** for R-12/	10, R-24/10	Vacutainers dimensions (Ø×length)	
BN-13/75	for vacutainers <sup>®</sup> 2–5 ml	13×75 mm	BS-010208-PK
BN-13/100	for vacutainers® 4–8 ml	13×100 mm	BS-010208-QK
BN-16/100	for vacutainers <sup>®</sup> 8–9 ml	16×100 mm	BS-010208-RK
Rack for rotors			
RR-U			BS-010208-UK

\* — Set of 2 adapters, made of Ertacetal® C and is autoclavable

**ORDERING INFORMATION:** optional accesories for rotors

\*\* — Set of 12 adapters, made of POM-C (polyacetal). Max. temperature +100°C