

Refrigerated Centrifuge LMC-4200R

Description

Laboratory bench-top centrifuge with refrigeration LMC-4200R provides temperature control of biomaterial during centrifugation.

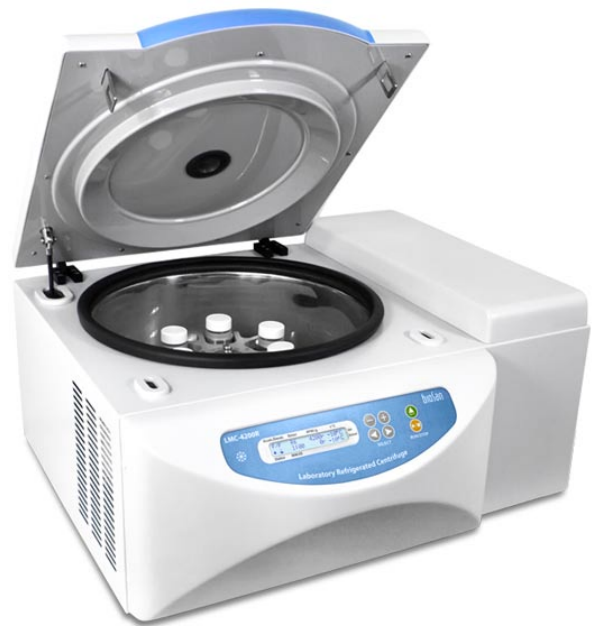
Temperature control of the so-called "cold-shelf" is a gold standard for enzymologists and cell biologists because it ensures conditions necessary for reproducibility of the sample preparation stage. Temperature control absence at this stage can cause unpredictable results.

LMC-4200R is a modern centrifuge designed for operation with microtest plates, gel cards and tubes from 10 to 50ml.

Order No.: 109.3070

Benefits

- Soft start and run-down of the rotor;
- 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:
 - Metal protection chamber
 - Case cover
 - Automatic stop at imbalance (emergency shutdown, "IMBALANCE" displayed)
 - Lock keeping the lid closed while the centrifuge is running;
- Setting rotor speed in RPM or RCF;
- Multiple acceleration (Slow, Normal, Fast) and deceleration (0, Slow, Normal, Fast) modes and possibility to switch off forced braking;
- Low noise level;
- Wide choice of accessory rotors (see page 3).



LMC-4200R



LMC-4200R with Rotor R-12/10

Refrigerated Centrifuge LMC-4200R



Technical Data

Temperature control range	- 10°C up to + 25°C
Stable temperature maintenance range	25°C below ambient ... to + 25°C
Temperature setting resolution	1°C
Speed regulation range for centrifuge tubes	100 – 4200 rpm (3160 x g)
Speed regulation range for microtitre plates	100 – 2000 rpm (560 x g)
Speed setting resolution	100 rpm
Rotor imbalance diagnostics (automatic stop, "IMBALANCE" warning)	Yes
Timer sound signal	Yes
Slowdown time, not more	30 s
Display	LCD, 2 lines
Digital time setting	1 – 90 min (increment 1 min)
Chamber diameter	360 mm
Dimensions	635 x 580 x 335 mm
Weight	56 kg
Nominal operating voltage	230 V, 50 Hz
Power consumption (230 V)	990 W (4.3 A)
Order No.	109.3070

Optional Rotors for LMC-4200R



R-2

Rotor R-2, swing-out rotor for standard 96-well microtitre plates

Skirted PCR plates, deepwell plates up to 45 mm.
Plate dimensions (W x L) 128 x 85.6 mm
Max. height up to 45 mm
Capacity 2
Max. speed 2000 rpm
Max. RCF: 560 x g

Adapter AP-96 for R-2
2 adapters for 96-well semi-skirted and non-skirted PCR plates, autoclavable.
Material: Ertacetal® C



Adapter AP-384 for R-2
2 Adapter for 384-well plates, autoclavable.
Material: Ertacetal® C



R-12/10

Rotor R-12/10, swing-out rotor for round bottom centrifuge tube

Tube dimensions (W x L) 16 x 105 mm
Capacity 12
Tube volume 10 – 15 ml
Max. speed 4200 rpm
Max. RCF: 3160 x g



R-24/10

Rotor R-24/10, swing-out rotor for round bottom centrifuge tube

Tube dimensions (∅ x length) 16 x 105 mm
Capacity 24
Tube volume 10 – 15 ml
Max. speed 4000 rpm
Max. RCF: 2860 x g



R-12/15

Rotor R-12/15, swing-out rotor for conical bottom centrifuge tube

Tube dimension (∅ x length) 17 x 120 mm
Capacity 12
Tube volume 15 ml
Max. speed 4200 rpm
Max. RCF: 3160 x g



R-6

Rotor R-6, swing-out rotor for plastic tubes with conical bottom and a lid

Tube holder material Aluminium/POM
Kocetal(Rotor R-6P)
Tube dimensions (∅ x length) 29 x 115 mm
Capacity 6
Tube volume 50 ml
Max. speed 4200 rpm
Max. RCF: 3160 rpm



R-6P



R-24GC

Rotor R-24GC, swing-out rotor for gel cards

For blood group serology testing (Forward Group, Reverse Group, RhD Type and 3 cell antibody screen)
Card dimensions (L x W) 53 x 74 mm
Capacity 24
Max. speed 1500 rpm
Max. RCF: 280 x g
Recommended Centrifugation Time: 9 min
Gel card manufacturers Grifols, DiaMed, etc.