

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.

Specifications

- 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).



Centrifuge LMC-4200R



Centrifuge 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

Refrigerated Centrifuge - LMC-4200R



Optional Accessories



Rotor Base RR-U

Suitable for all rotors of centrifuge LMC-4200R.

Optional Rotors



Rotor R-24/10

Swing-out rotor for conical bottom centrifuge tubes
Tube size (Ø x length): 16 x 105 mm
Max. capacity: 24 tubes
Tube volume: 10 – 15 ml
Max. speed: 4000 rpm
Max. RCF: 2860 x g
Autoclavable: Yes
Suitable tubes: Greiner, Bio-one, Nunc, TPP... .



Rotor Ri-2

For standard 96 well microtiter plates.

Rotor type:

Swing-out rotor

Capacity: 2 plates

Platform size:

128 x 85.6 mm

Max. height: <45 mm

Max. speed: 2000 rpm

Max. RCF: 560 x g

Autoclavable: Yes

Suitable tubes:

Nunc, Greiner, Sarstedt, Corning, Greiner Bio-one.



BN-13/75-24

BN-13/100-24

BN-16/100-24

Vacutainer Sets

Suitable for rotor Ri-24/10

BN-13/75-24

Vacutainer 2 – 5 ml

Adapter set: 24 pieces

BN-13/100-24

Vacutainer 4 – 8 ml

Adapter set: 24 pieces

BN-16/100-24

Vacutainer 8 – 10 ml

Adapter set: 24 pieces



Adapter Set

Suitable for rotor Ri-2

AP-96

Adapter for 96 well semi-skirted and non-skirted PCR plates

Material frame:

Ertacetal® C

Scope of delivery:

2 frames

Plate volume: 96 well

Max. speed: 4200 rpm

Max. RCF: 560 x g

Autoclavable: Yes



Rotor RMT-24

Rotor for 24 x 1.5 / 2 ml tubes

Rotor type: Fixed-angle

Max. capacity: 24 tubes

Max. speed: 6000 rpm

Max. RCF: 3750 x g



Rotor Ri-24GC

Rotor for gel cards.

Rotor type:

Swing-out rotor

Dimensions: 53 x 74 mm

Capacity: 24 gel cards

Max. speed: 1500 rpm

Max. RCF: 280 x g

Autoclavable: Yes

Suitable gel cards:

Grifols, DiaMed, etc.

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Optional Rotors



Rotor R-12/15

Swing-out rotor for round bottom centrifuge tubes
Tube size (Ø x length):
 17 x 120 mm
Max. capacity: 12 tubes
Tube volume: 15 ml
Max. speed: 4200 rpm
Max. RCF: 3160 x g
Autoclavable: Yes
Suitable tube types:
 Falcon, Greiner, Bio-one, Sarstedt, Corning, Nunc...



Rotor R-6

For centrifugal tubes with conical bottom.
Material buckets:
 Aluminium
Rotor type:
 Swing-out rotor
Dimensions (Ø x length):
 29 x 115 mm
Capacity: 6 tubes
Tube volume: 50 ml
Max. speed: 4200 rpm
Max. RCF: 3160 x g
Autoclavable: Yes
Suitable tubes:
 Falcon, Greiner, Bio-one, Sarstedt, Corning, Nunc...



Rotor R-12/10

For centrifugal tubes with round bottom.
Rotor type:
 Swing-out rotor
Dimensions (W x L):
 16 x 105 mm
Capacity: 12 tubes
Tube volume: 10 – 15 ml
Max. speed: 4200 rpm
Max. RCF: 3160 x g
Autoclavable: Yes
Suitable tubes: Greiner, Bio-one, TPP, Nunc...



Adapter BI-25-6

Suitable for rotor R-6 and R-6P (set with 6 pieces)
 For 25 ml conical tubes.



BN-13/75

BN-13/100

BN-16/100

Vacutainer-Sets

Suitable for rotor R-12/10

BN-13/75

Vacutainer 2 – 5 ml
 Adapter set: 12 pieces

BN-13/100

Vacutainer 4 – 8 ml
 Adapter set: 12 pieces

BN-16/100

Vacutainer 8 – 10 ml
 Adapter set: 12 pieces



Rotor R-6P

For centrifugal tubes with conical bottom.
Material buckets:
 POM Kocetal
Rotor type:
 Swing-out rotor
Dimensions (Ø x length):
 29 x 115 mm
Capacity: 6 tubes
Tube volume: 50 ml
Max. speed: 4200 rpm
Max. RCF: 3160 x g
Max. temperature: 150°C
Autoclavable: Yes
Suitable tubes:
 Falcon, Greiner, Bio-one, Sarstedt, Corning, Nunc...