

LMC-4200R, Laboratory Refrigerated Centrifuge

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 50 ml.

Features:

- 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 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.
- Rotor selection;
- 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.



CAT. NUMBER

| Without rotor | Without rotor |
|---------------|--------------------------|
| BS-010212-AAA | 230VAC 50/60Hz Euro plug |
| BS-010212-AAB | 230VAC 50/60Hz UK plug |
| BS-010212-AA3 | 230VAC 50/60Hz AU plug |
| BS-010212-EK | IQ OQ document |
| BS-010212-FK | PQ document |

SPECIFICATIONS

| | |
|---|---------------------------------|
| Temperature control range | -10°C ... +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 × g) |
| Speed regulation range for microtitre plates | 100–2000 rpm (560 × g) |
| Speed setting resolution | 100 rpm |
| Digital time setting | 1–90 min (increment 1 min) |
| Timer sound signal | + |
| Rotor imbalance diagnostics (automatic stop, "IMBALANCE" warning) | + |
| Slowdown time, not more | 30 s |
| Display | LCD, 2 lines |
| Chamber diameter | 360 mm |
| Overall dimensions (W×D×H) | 635x580x335 mm |
| Weight | 56 kg |
| Nominal operating voltage | 230 V, 50 Hz |
| Power consumption (230 V) | 990 W (4.3 A) |

ACCESSORIES



R-6
BS-010208-DK
rotor

Swing-out rotor for conical bottom centrifuge tube. Aluminium buckets.



R-6P
BS-010208-XK
Rotor

Swing-out rotor for conical bottom centrifuge tube. Plastic buckets (POM Kocetal).



R-12/10
BS-010208-BK
Rotor

Swing-out rotor for round bottom centrifuge tube.



R-24/10
BS-010212-JK
Rotor

Swing-out rotor for round bottom centrifuge tube.



BN-13/75
BS-010208-PK
adapter set

For rotor R-12/10, R-24/10 optional adapter set (12 pcs) - BN-13/75 for vacutainers 2-5 ml



BN-13/100
BS-010208-QK
adapter set

For rotor R-12/10, R-24/10 optional adapter set (12 pcs) - BN-13/100 for vacutainers 4-8 ml



BN-16/100
BS-010208-RK
adapter set

For rotor R-12/10, R-24/10 optional adapter set (12 pcs) - BN-16/100 for vacutainers 8-10 ml



R-12/15
BS-010208-EK
Rotor

Swing-out rotor for conical bottom centrifuge tube.



R-2
BS-010208-AK
Rotor

Swing-out rotor for standard 96-well microtitre plates, skirted PCR plates, deepwell plates up to 45mm.



AP-96
BS-010219-DK
adapter

2 adapters for 96-well semi-skirted and non-skirted PCR plates - made of Ertacetal® C. Autoclavable



AP-384
BS-010219-EK
adapter

2 adapters for 384-well plates - made of Ertacetal® C. Autoclavable



R-24GC
BS-010208-VK
Rotor

Rotor for 24 Gel Cards for blood group serology testing (Forward Group, Reverse Group, RhD Type and 3 cell antibody screen)



RR-U
BS-010208-UK
rack for rotors

Rack for rotors



BN-11/30
BS-010208-ZK
bucket set for rotor R-6P.
Spare bucket set for rotor R-6P. Plastic buckets (POM Kocetal) (6 pcs).



BN-16/90
BS-010208-SK
bucket set for rotor R-12/10 R-24/10
Spare bucket set for rotor R-12/10, R-24/10. Plastic buckets (12 pcs).



BN-17/120
BS-010208-TK
bucket set for rotor R-12/15

Spare bucket set for rotor R-12/15. Plastic buckets (12 pcs).