

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.

Additional information about centrifuge rotors

***NEW FUNCTION**



SPECIFICATION

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
Rotor imbalance diagnostics (automatic stop, "IMBALANCE" warning)	+
Slowdown time, not more	30 s
Display	LCD, 2 lines
Digital time setting	1–90 min (increment 1 min)

CAT. NR.

	LMC-4200R without rotors incl. power plug
BS-010212-AAA	230VAC 50/60Hz Euro plug
BS-010212-AAB	230VAC 50/60Hz UK plug
BS-010212-AA3	230VAC 50/60Hz AU plug
-----	Optional accessories
BS-010208-DK	Rotor R-6
BS-010208-XK	Rotor R-6P
BS-010208-EK	Rotor R-12/15
BS-010208-BK	Rotor R-12/10
BS-010212-JK	Rotor R-24/10
BS-010208-AK	Rotor R-2
BS-010208-VK	Rotor R-24GC

LMC-4200R, Laboratory Refrigerated Centrifuge



Chamber diameter	335 mm
Dimensions	635x580x335 mm
Weight	56 kg
Nominal operating voltage	230 V, 50 Hz
Power consumption (230 V)	990 W (4.3 A)

BS-010208-UK	Rack for rotors RR-U

BS-010208-PK	For rotor R-12/10, R-24/10 optional adapter set (12 pcs) - BN-13/75 for vacutainers 2-5 ml
BS-010208-QK	For rotor R-12/10, R-24/10 optional adapter set (12 pcs) - BN-13/100 for vacutainers 4-8 ml
BS-010208-RK	For rotor R-12/10, R-24/10 optional adapter set (12 pcs) - BN-16/100 for vacutainers 8-10 ml

BS-010219-DK	For rotor R-2 optional adapter set (2 pcs) - AP-96 for 96-well semi-skirted and non-skirted PCR plates
BS-010219-EK	For rotor R-2 optional adapter set (2 pcs) - AP-384 for 384-well plates

BS-010212-EK	IQ OQ document
BS-010212-FK	PQ document

	Replacement parts
BS-010208-ZK	For rotor R-6P adapter set (6 pcs) - BN-11/30
BS-010208-TK	For rotor R-12/15 adapter set (12 pcs) - BN-17/120
BS-010208-SK	For rotor R-12/10, R-24/10 adapter set (12 pcs) - BN-16/90

ACCESSORIES



R-6

Swing-out rotor for conical bottom centrifuge tube. RCF 3160 x g. Aluminium buckets.
[Additional information about centrifuge rotors](#)



R-6P

Swing-out rotor for conical bottom centrifuge tube. RCF 3160 x g. Plastic buckets (POM Kocetal).

LMC-4200R, Laboratory Refrigerated Centrifuge



R-12/15

Swing-out rotor for conical bottom centrifuge tube. RCF 3160 x g



R-24GC

Rotor for 24 Gel Cards for blood group serology testing (Forward Group, Reverse Group, RhD Type and 3 cell antibody screen) RCF 280 x g



R-12/10

Swing-out rotor for round bottom centrifuge tube. RCF 3160 x g



R-24/10

Swing-out rotor for round bottom centrifuge tube. RCF 2860 x g



BN-13/75, BN-13/100, BN-16/100 for R-12/10, R-24/10

Adapter set (12 pcs) for vacutainers® 2-5; 4-8; 8-10 ml - made of POM-C (polyacetal). Max temperature +100°C.

LMC-4200R, Laboratory Refrigerated Centrifuge



R-2

Swing-out rotor for standard 96-well microtitre plates, skirted PCR plates, deepwell plates up to 45mm. RCF 560 x g



AP-96 for R-2

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



RR-U

Rack for rotors