

## Centrifuges » LMC-3000 general purpose low speed centrifuge

## LMC-3000 general purpose benchtop centrifuge

Low speed benchtop centrifuge with interchangeable rotors for accommodating centrifuge tubes (from 2 to 50 ml) or microplates.

- Spin speed: up to 3000 rpm for tubes, up to 2000 rpm for microtitre plates
- Timed operation (1 to 90 minutes), with automatic switch-off
- 'Soft-start' and 'run-down' of the rotor
- Choice of interchangeable rotors for up to 12 centrifuge tubes or 2 microplates
- Auto 'IMBALANCE' stop and warning diagnostics
- Low noise level

**Sturdy metal housing and lid,** automatic imbalance switch-off and lid lock when centrifuge is running providing safe operation in your workplace

**Easy set-up of speed and time** via 2-line LCD display and simple push buttons showing actual and set speed and time



**LMC-3000 general purpose centrifuge fitted with R-2 rotor shown**

**Convenient interchangeable rotor** for 6 or 12 tubes of varying sizes or 2 microplates (standard and deep well). Please specify when ordering, sold separately

**The powerful and extremely quiet motor** has a 'soft-start' and 'run-down' function to avoid jolting of samples

**Compact design** with small footprint – fits neatly into the workspace

**Applications:**

- Life-science - ELISA plate centrifugation, PCR plate centrifugation, analytical applications including biomedical, bio-organic and immunoenzyme analysis
- Environmental - centrifuging of sewage sludge

## Centrifuges » LMC-4200R benchtop centrifuge with refrigeration

## LMC-4200R benchtop centrifuge with refrigeration

Refrigerated benchtop centrifuge with a temperature setting range of  $-10^{\circ}\text{C}$  to  $+25^{\circ}\text{C}$  and interchangeable rotors for accommodating 10 to 15 ml, or 50 ml centrifuge tubes, 2-9ml vacutainers® or microplates.

- **Spin speed:** up to 4200 rpm for tubes, up to 2000 rpm for microtitre plates
- **Temperature setting range**  $-10^{\circ}\text{C}$  to  $25^{\circ}\text{C}$
- **Timed operation** (1 to 90 minutes), with automatic switch-off
- **'Soft-start' and 'run-down' functions**
- **Choice of interchangeable rotors** for up to 12 centrifuge tubes or 2 microplates
- **Auto 'IMBALANCE' stop and warning diagnostics**
- **Low noise level**

LMC-4200 centrifuge with refrigeration

**Sturdy metal housing and lid,** automatic imbalance switch-off and lid lock when centrifuge is running providing safe operation in your workplace

**Effective acceleration** (run-up up to 15 sec) **and deceleration** (run-down up to 30 sec)

**Efficient chamber refrigeration rate** in under 10 minutes

**Easy set-up of speed and time** via 2-line LCD display and simple push button display of actual and set temperature, speed and time

**Convenient interchangeable rotors** for 6 or 12 tubes or 2 microplates (standard and deep well). Specify when ordering, sold separately

**The powerful and quiet motor** (not more than 65dBA) has a 'soft' start-up and run-down function to avoid jolting of samples

**Compact design with small footprint** – fits neatly into the workspace



**Applications:** ■ Life-science - universal applications for all centrifugation requiring a controlled temperature of biomaterial. Temperature control of the 'cold-shelf' is the standard needed for enzymologists and cell biologists ensuring the conditions necessary for reproducibility of the sample preparation stage

## Centrifuges » LMC-3000 and LMC-4200R » Models and specifications

## Centrifuges – models and specifications

● = optional

|                                      |         | Benchtop centrifuges                                                                                                                               |                                                                                                                                                    |
|--------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      |         | LMC-3000                                                                                                                                           | LMC-4200R                                                                                                                                          |
|                                      |         | low speed                                                                                                                                          | with refrigeration                                                                                                                                 |
|                                      |         |  <p>h: 235 mm<br/>d: 420 mm<br/>w: 495 mm<br/>weight: 13.5 kg</p> |  <p>h: 335 mm<br/>d: 580 mm<br/>w: 635 mm<br/>weight: 60 kg</p> |
| Max RCF (bottom of tube)             | g-force | 1700 x g                                                                                                                                           | 3370 x g                                                                                                                                           |
| Speed (centrifuge tubes)             | rpm     | 100 to 3000                                                                                                                                        | 100 to 4200                                                                                                                                        |
| Max RCF microplate rotor             | g-force | 560 x g                                                                                                                                            |                                                                                                                                                    |
| Speed (microtiter plates)            | rpm     | 100 to 2000                                                                                                                                        |                                                                                                                                                    |
| Centrifugation time                  |         | up to 90 minutes (1 min increment)                                                                                                                 |                                                                                                                                                    |
| Temperature setting range            | °C      | –                                                                                                                                                  | -10 to +25                                                                                                                                         |
| Temperature control range            | °C      | –                                                                                                                                                  | -10 to +25                                                                                                                                         |
| Stable temperature maintenance range | °C      |                                                                                                                                                    | 25 below ambient to +25<br>-10 to -5 depending on the ambient temperature, rotation speed and rotor type                                           |
| Speed increment                      | rpm     | 100                                                                                                                                                |                                                                                                                                                    |
| Chamber diameter                     | mm      | 335                                                                                                                                                |                                                                                                                                                    |
| Display                              |         | 2 line x 16 character LCD                                                                                                                          |                                                                                                                                                    |
| Input voltage                        | V ac    | 120 or 230 (50-60 Hz)                                                                                                                              | 230 (50-60 Hz)                                                                                                                                     |
| Ambient temperature range            | °C      | + 4 to 40                                                                                                                                          |                                                                                                                                                    |
| Maximum noise                        | dBA     | 59.4                                                                                                                                               | 63.7                                                                                                                                               |

## Accessories

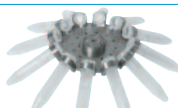
**R-6** interchangeable centrifuge rotor for 6 x 50 ml tubes, with cap, conical end  
Dimensions: ø29 x 115 mm



**R-12-10** interchangeable centrifuge rotor for 12 x 10 to 15 ml tubes, rounded ends, no caps  
Dimensions: ø16x 105 mm



**R-12-15** interchangeable centrifuge rotor for 12 x 15 ml tubes, with cap, conical end  
Dimensions: ø17x 120 mm



**R-2** interchangeable centrifuge rotor for 2 microtitre plates  
Dimensions: w128 x l85.6 mm  
Suitable for deepwell plates max dims 128 x 85.6 x 45 mm (w x d x h)



**Adapter sets for R-12-10 (pack of 12)**  
BN-13-75 for vacutainers 2-5 ml (ø13 x 75mm)  
BN-13-100 for vacutainers 4-8 ml (ø13 x 100mm)  
BN-16-100 for vacutainers 8-9 ml (ø16 x 100mm)