

The image shows a close-up of laboratory equipment, specifically a centrifuge rotor and several sample tubes. The rotor is black with a white cap and a white label that reads '1' and 'ortoalresa Ns 220759/05'. The sample tubes are silver with black labels that read 'ortoalresa Ns 220607/02'. The background is a blurred white surface.

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About centrifugation

General applications | BIOCEN 22 R



BIOCEN 22 R



One of the best options when high speed and different tube formats are required. This refrigerated microcentrifuge, which has a wide range of rotors for a cooled centrifuge, can work with conical type tubes from 0,2 ml. to 15 ml. Dynamic cooling equipment keeps the desired temperature, reaching it in a short period of time and maintaining it stable throughout the whole cycle, regardless of the operation speed. Customisation of equipment options through the software enables you to adapt the work cycles to the process, as well as the user preferences, thus optimising performance in your laboratory.

For Ortoalresa, the Biocen 22 R centrifuge is the culmination of its know-how in centrifugation, materialised for the user in a robust, versatile and efficient piece of equipment that integrates perfectly into any lab, highlighting its application in research and biotechnology.

Features

- LCD screen:
- Shows RPM and RCF, time, temperature and acceleration/deceleration (PCBS).
 - Speed programming in 10 RPM/ 10 xg steps.
 - Count up/down from "0" or at "set RPM/RCF" for reproducible tests.
 - Timer: from 5 sec. to 99 minutes or from 1 min. to 99 hours and indefinite time.
 - PCBS: Progressive controlled braking system up to 175 selectable ramps that prevents sample homogenization after separation.
 - 16 programmable memories.
 - Several acoustic and visual messages showing the situation of the device to the user.

Easy to use

- Microprocessor controlled.
- Induction motor maintenance free (brushless).
- Rotors list in memory.
- Noise level: below 65 dB.
- Start, stop, open lid and short spin with adjustable speed buttons.
- Possibility to block or modify the speed during the cycle.
- Low height for easy access.
- Last values remain in memory.
- Automatic rotor recognition. Over-speed protection.

3 YEAR
WARRANTY



Max. Capacity
8 x 15 ml



Max. Speed
31.865 xg / 18.100 RPM



Screen Type
LCD



Version
✓ Refrigerated



EU Directives: 2011/65/EU, 2012/19/EU, 2014/30/EU, 2014/35/EU, 2017/746/EU.
Regulation n°: (EC) 1005/2009, (EU) 517/2014.
Standards: EN 61010-1, EN 61010-2-101, EN 61010-2-020, EN 61326-2-6, EN 61326-1.

Safety

- Lid provided with security systems:
 - Automatic lid lock system, motorized.
 - Emergency lid-lock release.
 - Locking and protection against opening along the run.
 - Lid dropping protection.
 - Port in the lid for calibration and operation checking.
- Unbalance detection and switch off.
- Protection safety ring between the centrifugation chamber and the housing.
- Chamber of centrifugation in stainless steel (easy cleaning).
- Rotors can be removed with the lid closed. Hermetic lids.
- Rotors and adapters autoclavable, easy to install by the user.
- Automatic disconnection for energy saving up to 8 h.

Refrigeration

- Maintains the refrigeration after the centrifugation process.
- Precooling program with rotor spinning and selectable temperature.
- Guarantees 4 °C at maximum RPM.
- Temperature range from -20°C (-4°F) to 40°C (104°F) in 1°C steps.
- Temperature sensor inside the chamber.
- Gas R 449A HFO (CFC free).

Versions

| | Dimensions (mm) (w x d x h) | | | | Net Weight (Kg) | Voltage (V) | Frequency (Hz) | Consumption (W) |
|--------|--------------------------------|-----|-----|--|--------------------|----------------|-------------------|--------------------|
| CE 148 | 270 | 650 | 280 | | 41 | 220-230 | 50 | 580 |
| CE 149 | 270 | 650 | 280 | | 41 | 110-120 | 60 | 580 |

*IVD version available, please indicate it in your request



Accessories centrifuge Biocen 22 R

- Rolling table (pag. 78)
- Rotors & adapters

| MICROTUBES | | | | | | | | | |
|-------------------------------|------------------|---|------|---|--------|---|--------|---|--------|
| | | RT 224 | | RT 222 | | RT 252 | | RT 223 | |
| | |  | |  | |  | |  | |
| ROTOR | | ANGLE FIXED 45 ° | | ANGLE FIXED 45 ° | | ANGLE FIXED 45 ° | | ANGLE FIXED 30 ° | |
| Max. capacity | | 32 x 0,2 ml | | 24x1,5-2 ml | | 12 x 5 ml | | 8x15 ml | |
| RPM Max. | | 18.100 | | 18.100 | | 18.100 | | 8.000 | |
| Radius (mm) | | 55 | | 82 | | 87 | | 91 | |
| RCF Max. (xg) | | 20.145 | | 30.034 | | 31.865 | | 6.511 | |
| Min. temp. at max. speed (°C) | | -1 | | 0 | | 4 | | -3 | |
| SAMPLE VOLUME | Dim (mm) approx. | ADAPTERS | | ADAPTERS | | ADAPTERS | | ADAPTERS | |
| | | Tubes | Ref. | Tubes | Ref. | Tubes | Ref. | Tubes | Ref. |
| 15 ml. | ø16 x 100 | - | - | - | - | - | - | 8 | - |
| 15 ml. conical | ø17 x 122 | - | - | - | - | - | - | 8 | - |
| 10 ml. | ø13 x 100 | - | - | - | - | - | - | 8 | RE 371 |
| 10 ml. blood sample | ø16 x 107 | - | - | - | - | - | - | 8 | - |
| 10 ml. (hs) | ø16 x 80 | - | - | - | - | - | - | 8 | RE 398 |
| 7/10 ml. blood sample | ø13 x 107 | - | - | - | - | - | - | 8 | RE 371 |
| 5 ml. | ø13 x 75 | - | - | - | - | - | - | 8 | RE 377 |
| 5 ml. conical | ø17 x 60 | - | - | - | - | 12 | - | - | - |
| 5 ml. conical screw cap | ø17 x 68 | - | - | - | - | 6 | - | - | - |
| 5 ml. blood sample | ø13 x 82 | - | - | - | - | - | - | 8 | RE 377 |
| Microtubes 1,5 - 2 ml. | ø11 x 42 | - | - | 24 | - | 12 | RE 506 | 8 | RE 513 |
| Microtubes 0,5 - 0,6 ml. | ø8 x 30 | - | - | 24 | RE 305 | 12 | RE 507 | 8 | RE 514 |
| Microtubes 0,2 - 0,4 ml. | ø6 x 45 | 32 x 0,2 | - | 24 | RE 304 | 12 | RE 508 | 8 | RE 515 |
| Cryotubes | ø12,5 x 52 | - | - | - | - | 12 | RE 537 | - | - |

RT 128: Available rotor for capillaries (includes microhematocrit reader card).

ROLLING TABLE

Centrifuges accessories

With the aim of offering an alternative to those laboratories that need to increase their equipment, but do not have enough space, we have designed these rolling tables for our centrifuges.

This accessory allows the equipment to be positioned and moved easily thanks to its four 360° rotating wheels. Once the rolling table is located, and before starting to work with the centrifuge, the wheels can be fixed with the brake system that will prevent involuntary displacement during the centrifugation process. The robust design supports the weight of the equipment and prevents vibration transfer.

We offer two types of tables, one with height to locate the equipment at the same height as if they were on the laboratory table and another, that enables you to place your centrifuge under the table of your laboratory, saving even more space.

A solution for each type of need.

References

| | Dimensions (mm) (w x d x h) | | | Net weight (kg) | Centrifuge model |
|--------|--------------------------------|-----|-----|-----------------|--|
| CP 007 | 560 | 590 | 580 | 65 | Biocen 22 R, Bioprocen 22 R, Digicen 22 R, Consul 22 and Digtor 22 |
| CP 008 | 440 | 500 | 690 | 65 | Unicen 21 and Digicen 22 |
| CP 009 | 750 | 730 | 350 | 70 | Consul 22 R, Digtor 22 R and Dilitcen 22 R - to place under table |
| CP 010 | 750 | 730 | 580 | 90 | Consul 22 R, Digtor 22 R and Dilitcen 22 R |





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