



**SPHERA GROUP**

Centrifuges and laboratory products



General applications: Centrifuges micro

**BIOCEN 22**

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# BIOCEN 22

LED

Centrifuges micro: Biocen 22



IVD CE

**Max. capacity:** 24 x 2 ml./ 12 x 5 ml.

**Max. speed:** 21.885 xg / 15.000 RPM

The Biocen 22 centrifuge is our offer for users requiring a microcentrifuge with possible applications for microhematocrit and microtubes. Its small size, good performance and great versatility make it an essential tool. It gives the user complete control from the beginning of the process and many values can be customised according to the processes. Built to ensure the minimum increase of temperature inside the chamber due to the high-speed centrifugation process.

We know how important a sample is as a part of a process and therefore we try to interfere as little as possible to avoid interference and ensure a precise, exact, reliable and rapid result.

## Features

### LED screen:

- Shows RPM/ RCF and time.
- Speed programming in 50 RPM/ 10 xg steps.
- Timer countdown/up from "0" or at "set RPM/ RCF" for reproducible tests.
- Timer from 1 to 99 min. programmable in 1 min. steps and hold position.
- Acceleration and deceleration control in 3 steps: fast, soft and free.
- Acoustic and visual messages on screen warning the user the equipment status.

## Easy to use

- Microprocessor controlled.
- Induction motor maintenance free (brushless).
- Rotors list on memory.
- Noise level: below 60 dB.
- Start, stop, open lid and short spin with adjustable speed buttons.
- Option of free/locked adjustment of RPM/ RCF along the run.
- Automatic open lid, programmable.
- Low height for easy access.
- Last values remain in memory.
- Over-speed protection.

## 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.
- Forced ventilation to reduce temperature increasing
- Automatic disconnection for energy saving, with deactivation option.

**EU Directives:** 2011/65/EU, 2012/19/EU, 2014/30/EU, 2014/35/EU, 98/79/EC.

**Standards:** EN 61010-1, EN 61010-2-101, EN 61010-2-020, EN 61326-2-6, EN 61326-1.

## Versions

	Dimensions (mm) (w x d x h)			Net weight (Kg)	Voltage (V)	Frecuency (Hz)	Consumption (W)
CE 146	270	380	270	16	220-230	50-60	360
CE 147	270	380	270	16	110-120	50-60	360

### Accessories

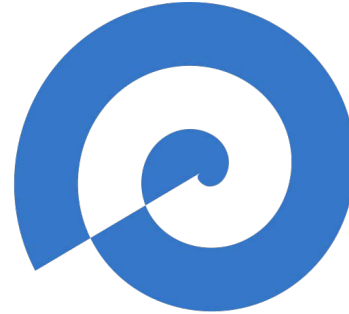


ROTOR	ANGLE FIXED 45 °	HORIZONTAL	ANGLE FIXED 45 °	ANGLE FIXED 45 °
Max. capacity	24x1,5-2 ml	24x1,5x75 mm	32x0,2 ml	12 x 5 ml
RPM Max.	15.000	15.000	15.000	15.000
Radius (mm)	82	87	55	87
RCF Max. (xg)	20.627	21.885	13.835	21.884

SAMPLE VOLUME	ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS	
	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.
5 ml. conical / screw cap	-	-	-	-	-	-	12/6	-
1,5x75 mm. Capillaries	-	-	24	-	-	-	-	-
Microtubes 1,5-2 ml.	24	-	-	-	-	-	12	RE 506
Microtubes 0,5-0,6 ml.	24	RE 305	-	-	-	-	12	RE 507
Microtubes 0,2-0,4 ml.	24	RE 304	-	-	32x0,2	-	12	RE 508

(1)Includes microhematocrit reader card.

(2)Available adapters for cryotubes.



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