

A close-up photograph of laboratory equipment. In the foreground, a black cylindrical component with a white knurled top is labeled '1' and 'ortoalresa № 220759/05'. To its right, several stainless steel tubes are visible, each engraved with 'ortoalresa № 220607/02'. In the background, a black container holds several red caps. A dark semi-transparent banner is overlaid on the right side of the image, containing the company logo and tagline.

**orto  
alresa**  
About centrifugation

General applications | BIOCEN 22





# BIOCEN 22



The Biocen 22 centrifuge is our offer for users that require 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.

## Features

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

## Easy to use

- Microprocessor controlled.
- Induction motor maintenance free (brushless).
- Rotors list in memory.
- Noise level: below 60 dB.
- Start, stop, open lid and short spin with adjustable speed buttons.
- Possibility to block or modify the speed during the cycle.
- Automatic lid opening, 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.

3 YEAR  
WARRANTY



Max. Capacity  
24 x 2 ml / 12 x 5 ml



Max. Speed  
21.885 xg / 15.000 RPM



Screen Type  
LED



Version  
Ventilated



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)	Frequency (Hz)	Consumption (W)
CE 146	270	380	270		16	220-230	50-60	220
CE 147	270	380	270		16	110-120	50-60	220

\*IVD version available, please indicate it in your request

## Accessories

	RT 227	RT 228	RT 229	RT 254
		(1)		(2)
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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