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Centrifuges and laboratory products

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General applications: Centrifuges universal

BIOPROCEN 22 R

BIOPROCEN 22 R

LCD

PCBS



Centrifuges universal: Bioprocen 22 R



IVD CE

Max. capacity: 6 x 50 ml.

Max. speed: 31.865 xg / 18.100 RPM

The bioprocessing requires a versatile centrifuge which cover different types of assays and therefore different configuration for the same centrifuge. The centrifuge Bioprocen 22 R is provided of high-speed rotors for microtubes from 1,5 to 5 ml, as well as 50 ml conical tubes. Its accessories for microplates offer the chance to spin in swing out rotors.

The refrigeration system has been designed for a temperature stability that allow to keep it even at high speed and along the run.

The different options for customization through the software become the centrifuge a tailor-made tool for your lab. Increase your lab output with the new Bioprocen 22 R.

Features

LCD screen:

- Shows RPM and RCF, time, temperature and acceleration/deceleration (PCBS).
- Speed programming in 10 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 5 sec. steps and hold position.
- PCBS: Progressive controlled acceleration and braking system up to 175 selectable ramps that prevents sample homogenization after separation.
- 16 programmable memories.
- Several acoustic and visual messages warning the user the device situation.

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.
- Low height for easy access.
- Last values remain in memory.
- Automatic rotor recognition. 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.
- Ergonomic design that allows close the lid effortless
- 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

- Remains the refrigeration after centrifugation process.
- Precooling program with rotor spinning and temperature selectable.
- Guarantee 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).

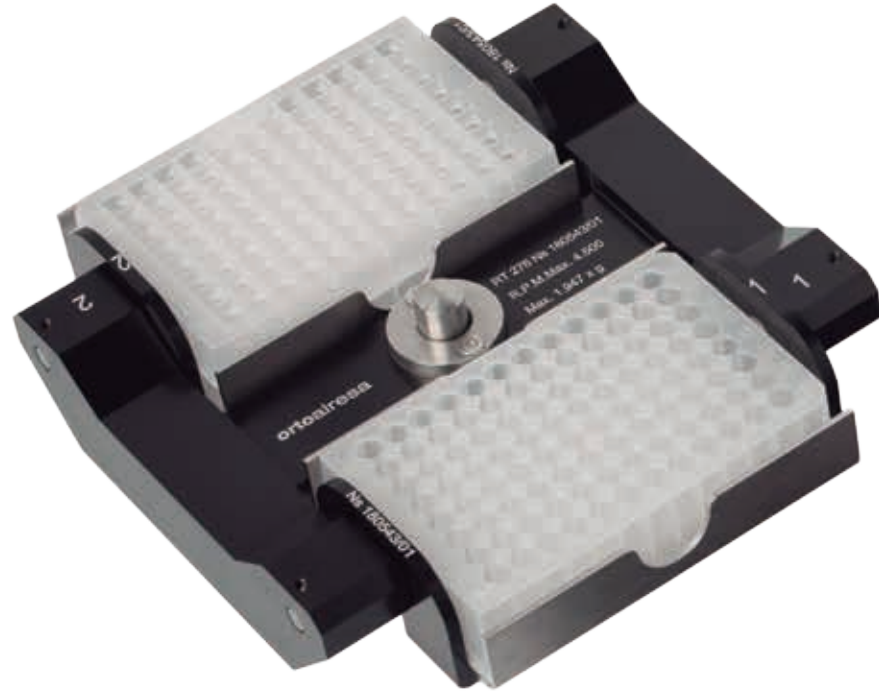
EU Directives: 2011/65/EU, 2012/19/EU, 2014/30/EU, 2014/35/EU, 98/79/EC.

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.

Versions

	Dimensions (mm) (w x d x h)			Net weight (Kg)	Voltage (V)	Frecuency (Hz)	Consumption (W)
CE 223	410	690	320	59	220-230	50-60	540
CE 224	410	690	320	59	110-120	60	700



Accessories

Centrifuge Bioprocen 22 R

		 RT 291		 RT 274 (1)		 RT 275		 RT 276 (2)	
ROTOR		ANGLE FIXED 45 °		ANGLE FIXED 28 °		ANGLE FIXED 45 °		SWING OUT 30 °	
Max. capacity		12 x 5 ml		6 x 50 ml		30 x 1,5-2 ml.		4/2 microtiter	
RPM Max.		18.100		8.300		12.000		4.500	
Radius (mm)		87		101		96		86	
RCF Max. (xg)		31.865		7.778		15.445		1.947	
Min. temp. at max. speed (°C)		3		-3		-3		-5	
SAMPLE VOLUME	Dim (mm) approx	ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS	
		Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.
50 ml. (hs)	ø29 x 108	-	-	6	RE 536	-	-	-	-
50 ml. conical	ø29 x 117	-	-	6	RE 536	-	-	-	-
30 ml. / 30 ml. (hs)	ø25 x 98	-	-	6	RE 392	-	-	-	-
15 ml.	ø16 x 100	-	-	6	RE 394	-	-	-	-
15 ml. conical	ø17 x 122	-	-	6	RE 394 (3)	-	-	-	-
10 ml.	ø13 x 100	-	-	6	RE 396	-	-	-	-
10 ml. blood sample	ø16 x 107	-	-	6	RE 394	-	-	-	-
10 ml. (hs)	ø29 x 117	-	-	6	RE 395	-	-	-	-
7/10 ml. blood sample	ø13 x 107	-	-	6	RE 396	-	-	-	-
5 ml.	ø13 x 75	-	-	6	RE 397	-	-	-	-
5 ml. conical	ø17 x 60	12	-	-	-	-	-	-	-
5 ml. conical screw cap	ø17 x 60/68	6	-	-	-	-	-	-	-
5 ml. blood sample	ø13 x 82	-	-	6	RE 397	-	-	-	-
Microtubes 1,5 - 2 ml.	ø11 x 42	12	RE 506	18	RE 433	30	-	72	RE 401
Microtubes 0,5 - 0,6 ml.	ø8 x 30	12	RE 507	18	RE 575	30	RE 428	72	RE 580
Microtubes 0,2 - 0,4 ml.	ø6 x 45	12	RE 508	18	RE 576	30	RE 427	72	RE 581
Cryotubes	ø12,5 x 52	12	RE 537	-	-	-	-	-	-
Microtiter plates: 128x86x15/21 mm	128x86x15/21/45	-	-	-	-	-	-	4/2	-

(1) Please check tubes features. (2) Allows different configurations depending of the microplates height. (3) Fitting these tubes the rotor can not be closed with the lid.

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About centrifugation

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Subject to modifications

