

# orto alresa

Centrifuges and laboratory products

[info@ortoalresa.com](mailto:info@ortoalresa.com)

[www.ortoalresa.com](http://www.ortoalresa.com)

+34 91 884 40 16



General applications: Centrifuges universal

## UNICEN 21

# UNICEN 21

LED



Centrifuges universal: Unicen 21

IVD CE

**Max. capacity:** 4 x 100 ml.

**Max. speed:** 2.938 xg / 4.200 RPM

**Max. volume:** 480ml.

The word that best defines and determines its characteristics is, without doubt, universal. It has multiple rotors with a wide range of reducers, which enables it to work with volumes from 0.2 ml. to 100 ml., with angle fixed and swing out options. This equipment covers all types of needs of the users and offers a range of medium speeds for routine processes. To optimise the performance of the equipment in this range, we have increased its capacity with a swing out rotor for up to 28 x 15 ml. tubes and an angle fixed rotor for 32 to 15 ml./15 ml. conical tubes.

It has a control to define the functions beyond the operation values, thus becoming a piece of equipment perfectly integrated into your processes. Versatile, functional, simple, indispensable in your lab.

## 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 with double lock.
  - 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).
- Buckets 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)	Frequency (Hz)	Consumption (W)
CE 126	410	520	320	36	220-230	50-60	280
CE 127	410	520	320	36	110-120	50-60	280

## Accessories

### Centrifuge Unicen 21

		 RT 177	 RT 260	 RT 175	 RT 173	 RT 226	 RT 163						
<b>ROTOR</b>		<b>SWING OUT</b>	<b>SWING OUT</b>	<b>SWING OUT</b>	<b>SWING OUT</b>	<b>ANGLE FIXED 30 °</b>	<b>ANGLE FIXED 35 °</b>						
Max. capacity		8 x 15 ml.	28 x 15 ml.	4 x 50 ml.	4 x 100 ml.	8 x 15 ml.	24 x 15 ml.						
RPM Max.		4.200	4.200	4.200	4.200	4.200	4.200						
Radius (mm)		145	147	145	147	91	132/114						
RCF Max. (xg)		2.860	2.899	2.860	2.899	1.795	2.603/2.248						
SAMPLE VOLUME	Dim (mm) approx.	ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS	
		Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.
100 ml.	ø48 x 100	-	-	-	-	-	-	4	RE 446	-	-	-	-
80 ml.	ø44 x 100	-	-	-	-	-	-	4	RE 338	-	-	-	-
50 ml.	ø34 x 100	-	-	-	-	4	RE 445	4	RE 335	-	-	-	-
50 ml. conical	ø29 x 117	-	-	-	-	4	RE 342	4	RE 341	-	-	-	-
30 ml.	ø25 x 98	-	-	-	-	4	RE 333	4	RE 332	-	-	-	-
15 ml.	ø16 x 100	8	-	28	-	4	RE 329	16	RE 316	8	-	24	-
15 ml. conical	ø17 x 122	8	-	4	-	4	RE 329	4/8	RE 339/579	8	-	12	-
10 ml.	ø13 x 100	8	RE 371	28	RE 516	12	RE 313	20	RE 320	8	RE 371	24	RE 385
10 ml. blood sample	ø16 x 107	8	-	28	-	4	RE 329	16	RE 316	8	-	24	-
7/10 ml. blood sample	ø13 x 107	8	RE 371	28	RE 516	4	RE 337	20	RE 320	8	RE 371	24	RE 385
5 ml.	ø13 x 75	8	RE 377	28	RE 512	12	RE 313	20	RE 320	8	RE 377	24	RE 306
5 ml. blood sample	ø13 x 82	8	RE 377	28	RE 512	4	RE 337	20	RE 320	8	RE 377	24	RE 306
Microtubes 1,5-2 ml.	ø11 x 42	8	RE 513	28	RE 578	12	RE 463	20	RE 408	8	RE 513	-	-
Microtubes 0,5-0,6 ml.	ø8 x 30	8	RE 514	28	RE 582	12	RE 531	20	RE 519	8	RE 514	-	-
Microtubes 0,2-0,4 ml.	ø6 x 45	8	RE 515	28	RE 583	12	RE 532	20	RE 473	8	RE 515	-	-

(1) This rotor can be supplied with hermetic lids (RE 355)

		RT 256		RT 167	
		ANGLE FIXED 35 °		ANGLE FIXED 45 °	
Max. capacity		32 x 15 ml.		6 x 50 ml.	
RPM Max.		4.200		4.200	
Radius (mm)		149/130		132	
RCF Max. (xg)		2.938/2.563		2.603	
SAMPLE VOLUME	Dim (mm) approx.	ADAPTERS		ADAPTERS	
		Tubes	Ref.	Tubes	Ref.
100 ml.	ø48 x 100	-	-	-	-
80 ml.	ø44 x 100	-	-	-	-
50 ml.	ø34 x 100	-	-	6	RE 447
50 ml. conical	ø29 x 117	-	-	6	RE 365
30 ml.	ø25 x 98	-	-	6	RE 387
15 ml.	ø16 x 100	32	-	6	RE 361
15 ml. conical	ø17 x 122	32	-	6	RE 361
10 ml.	ø13 x 100	32	RE 518	18	RE 360
10 ml. blood sample	ø16 x 107	32	-	6	RE 361
7/10 ml. blood sample	ø13 x 107	32	RE 518	6	RE 364
5 ml.	ø13 x 75	32	RE 517	18	RE 360
5 ml. blood sample	ø13 x 82	32	RE 517	6	RE 364
Microtubes 1,5-2 ml.	ø11 x 42	-	-	18	RE 464
Microtubes 0,5-0,6 ml.	ø8 x 30	-	-	18	RE 533
Microtubes 0,2-0,4 ml.	ø6 x 45	-	-	18	RE 534



**orto**  
alresa  
About centrifugation

**Álvarez Redondo S.A.**  
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[info@ortoalresa.com](mailto:info@ortoalresa.com)  
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**Made in Spain (UE)**