

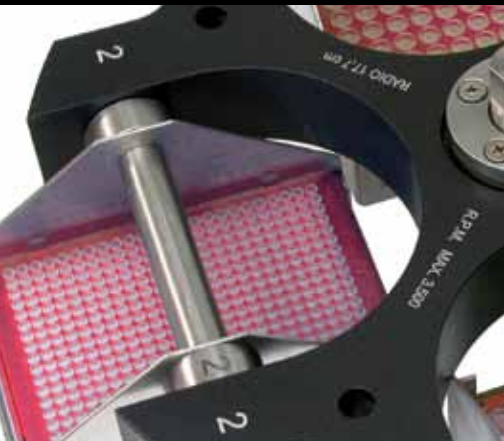
# orto alresa

Centrifuges and laboratory products

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

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

Tel.: +34 91 884 40 16



General applications: Centrifuges: Universal

## Series DIGICEN 21

# DIGICEN 21



Centrifuges: Universal: Series Digicen 21

IVD CE

The centrifuge **Digicen 21** highlights for its versatility among the universal centrifuges and it's provided of:

- Swing out rotors for max 4 x 100 ml for tubes , microplates as well as microtubes.
- Angle fixed low speed up to 24 tubes of 15ml.
- Angle fixed high speed for microtubes up to 50 ml conical.

It's controlled through LCD screen showing centrifugation values as time, RPM/RCF, as well as braking time, graphic for open lid, progress bar , messages and acoustic signals for error or end of program , which provides the user the process monitoring.

**Thinking on centrifugation.**

## User friendliness

- LCD screen shown RPM/RCF (on steps 100 RPM/10xg),time, temperature (1°C steps) and acceleration/deceleration (1 second steps).
- Intuitive handling through start, stop, short spin and lid keys.
- Rotor list on memory.
- Timer count up/down, from 0 or at "set RPM/RCF" for test reproducibility.
- Short spin key with speed adjustable.
- Automatic rotor recognition.
- Progressive acceleration and braking selectable by operator up to 175 ramps.
- 16 memories.
- Automatic open lid (non-refrigerated)
- Lid latch lock.
- Microprocessor controlled.
- Option: free or locked adjustment of RPM/RCF along the run.

## Features

- Induction motor maintenance free
- Max. capacity. 4 x 100 ml.
- Speed, up to 24.959 xg/16.500 RPM
- Quiet: noise level < 60 dB.

## Safety

- Lid locking and holding.
- Imbalance switch off.
- Manual overriding.
- Chamber of centrifugation in stainless steel.
- Viewing and calibration port in the lid.
- Several messages keep the operator informed about the device situation.

- Guard ring between the chamber of centrifugation and the housing.
- Lid dropping protection.

**EU Directives:** 98/79/EC, 2006/95/EC, 2004/108/EC, 2011/65/EU, 2012/19/EU

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

## Versions

Code	Dimensions (mm)(w x d x h)			Net weight (Kg)	Voltage (V)	Frecuency (Hz)	Consumption (W)
CE 110	410	530	320	36	220-240	50-60	280
CE 116	410	530	320	36	110-120	50-60	280

# DIGICEN 21R



Centrifuges: Universal: Series Digicen 21

IVD CE

The centrifuge refrigerated **Digicen 21 R** can reach up to 24.959 xg with a wide range of rotors:

- Swing out rotors, with a max volume of 4 x 100 ml which can fit several set of adapters for tubes with or without caps, microtubes, microplates.
- Angle fixed low speed for routine purposes.
- Angle fixed high speed from microtubes to 50 ml conical tubes.

On LCD screen shown the selectable values as time, RPM, RCF, temperature and braking time as well as graphics for lid open, progress bar, and acoustic signals for a better control about the process by operator.

The powerful refrigeration system, enhanced by the pre-cooling program, keep the samples at stable and controlled temperature, avoiding sample's temperature fluctuations at introducing into the device.

#### Stabilizing sample preparation.

### User friendliness

- LCD screen shown RPM/RCF (on steps 100 RPM/10xg), time, temperature (1°C steps) and acceleration/deceleration (1 second steps).
- Intuitive handling through start, stop, short spin and lid keys.
- Rotor list on memory.
- Timer count up/down, from 0 or at "set RPM/RCF" for test reproducibility.
- Short spin key with speed adjustable.
- Automatic rotor recognition.
- Acceleration and braking selectable by operator.
- 15 memories and pre-cooling program.
- Lid latch lock.
- Microprocessor controlled.
- Option: free or locked adjustment of RPM/RCF along the run.

### Features

- Induction motor maintenance free
- Max. capacity 4 x 100 ml.
- Speed, up to 24.959 xg/16.500 RPM.
- Quiet: noise level < 60 dB.

### Safety

- Lid locking and holding.
- Imbalance switch off.
- Manual overriding.

- Chamber of centrifugation in stainless steel.
- Viewing and calibration port in the lid.
- Several messages keep the operator informed about the device situation.
- Guard ring between the chamber of centrifugation and the housing.
- Lid dropping protection.

### Cooling

- Precooling program with rotor spinning and temperature selectable by operator.
- 4°C at Max speed as higher.
- Temperature range -20°C (-4 °F) to 40°C (104 °F)
- Temperature sensor inside the chamber, gas R 404A HFC.

**EU Directives:** 98/79/EC, 2006/95/EC, 2004/108/EC, 2011/65/EU, 2012/19/EU

**Regulation:** 1005/2009 & 842/2006.

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

### Versions

Code	Dimensions (mm)(w x d x h)			Net weight (Kg)	Voltage (V)	Frecuency (Hz)	Consumption (W)	Z max Advisable(Hz)
CE 113	590	680	320	67	220-240	50-60	700	< 0.446
CE 119	590	680	320	67	110-120	50-60	700	< 0.446

## Accessories

### Centrifuges Series Digicen 21

		 RT 143	 RT 138 (1)	 RT 150	 RT 183	 RT 128	 RT 151 (3)	 RT 110					
ROTOR		SWING OUT	SWING OUT	SWING OUT	ANGLE FIXED	HORIZONTAL	ANGLE FIXED 45 °	ANGLE FIXED 35 °					
Max. capacity		4 x 50 ml.	4 x 100 ml.	2,4 o 6 Microtiter	32 de 0,2 ml.	24 de 1,5x 75 mm.	24 de 1,5-2 ml.	24 x 5 ml.					
RPM		5.300	5.000	4.000	16.500	13.000	16.500	6.500					
Radius(mm)		145	147	122 (4)	55 (4)	87	82	113					
RCF Max. (xg)		4.554	4.109	2.182	16.741	16.438	24.959	5.338					
Min. temp. max speed (°C)		-4	-4	0	2	1	2	1					
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 95	-	-	4	RE 446	-	-	-	-	-	-	-	-
80 ml. hs	ø38 x 112	-	-	4	RE 380	-	-	-	-	-	-	-	-
80 ml.	ø44 x 100	-	-	4	RE 338	-	-	-	-	-	-	-	-
50 ml. hs	ø29 x 108	4	RE 378	4	RE 381	-	-	-	-	-	-	-	-
50 ml.	ø35 x 100	4	RE 445	4	RE 335	-	-	-	-	-	-	-	-
50 ml. conical	ø29 x 117	4	RE 342	4	RE 341	-	-	-	-	-	-	-	-
30 ml. hs	ø25 x 98	4	RE 379	4	RE 382	-	-	-	-	-	-	-	-
30 ml.	ø25 x 96	4	RE 333	4	RE 332	-	-	-	-	-	-	-	-
15 ml.	ø16 x 100	4	RE 329	16	RE 316	-	-	-	-	-	-	-	-
15 ml. conical	ø17 x 122	4	RE 329	4	RE 339	-	-	-	-	-	-	-	-
10 ml. hs	ø16 x 80	4	RE 329	16	RE 316	-	-	-	-	-	-	-	-
10 ml.	ø13 x 100	12	RE 313	20	RE 320	-	-	-	-	-	-	-	-
10 ml. blood sample	ø16 x 107	4	RE 329	16	RE 316	-	-	-	-	-	-	-	-
7/10 ml. blood sample	ø13 x 107	4	RE 337	20	RE 320	-	-	-	-	-	-	-	-
5 ml.	ø13 x 75	12	RE 313	20	RE 320	-	-	-	-	-	-	-	24
5 ml. blood sample	ø13 x 82	4	RE 337	20	RE 320	-	-	-	-	-	-	-	24
1,5 x 75 mm. capillaries	ø1,5x75	-	-	-	-	-	-	-	24	-	-	-	-
Microtubes 1,5-2 ml.	ø11x39	12	RE 463	20	RE 408	72	RE 401	-	-	-	-	24	-
Microtubes 0,5-0,6 ml.	ø8x30	-	-	-	-	-	-	-	-	-	-	24	RE 305
Microtubes 0,2-0,4 ml.	ø6x45	-	-	-	-	-	-	32 de 0,2 ml.	-	-	-	24	RE 304
Microtiter	128x86x15	-	-	-	-	6	-	-	-	-	-	-	-
Microtiter	128x86x21	-	-	-	-	4	-	-	-	-	-	-	-
Microtiter	128x86x45	-	-	-	-	2	-	-	-	-	-	-	-
Cell culture	128x86x22	-	-	-	-	4	-	-	-	-	-	-	-

(1) This rotor includes hermetic lids. | (2) Fitting this tubes rotor lid can not be closed. | (3) Please, check tubes feature. | (4) Medium radio on bucket.

		RT 106		RT 108		RT 121 (3)		RT 152 (3)		RT 153 (3)		RT 154 (3)	
													
ROTOR		ANGLE FIXED 35 °		ANGLE FIXED 35 °		ANGLE FIXED 45 °		ANGLE FIXED 30 °		ANGLE FIXED 30 °		ANGLE FIXED 28 °	
Max. capacity		18 x 15 ml.		24 x 15 ml.		6 x 50 ml.		12 x 10ml. Hermét		8 x 30 ml. Hermét		6 x 50 ml. Hermét	
RPM		5.000		5.000		6.000		15.000		13.500		9.000	
Radius(mm)		132		132/114		132		78		92		101	
RCF Max. (xg)		3.689		3.689/3.186		5.313		19.621		18.746		9.146	
Min. temp. max speed (°C)		0		-1		1		4		4		1	
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 95	-	-	-	-	-	-	-	-	-	-	-	-
80 ml. hs	ø38 x 112	-	-	-	-	-	-	-	-	-	-	-	-
80 ml.	ø44 x 100	-	-	-	-	-	-	-	-	-	-	-	-
50 ml. hs	ø29 x 108	-	-	-	-	6	RE 386	-	-	-	-	6	-
50 ml.	ø35 x 100	-	-	-	-	6	RE 447	-	-	-	-	-	-
50 ml. conical	ø29 x 117	-	-	-	-	6	RE 365	-	-	-	-	6	-
30 ml. hs	ø25 x 98	-	-	-	-	6	RE 387	-	-	8	-	6	RE 392
30 ml.	ø25 x 95	-	-	-	-	6	RE 362	-	-	8	-	6	RE 393
15 ml.	ø16 x 100	18	-	24	-	6	RE 361	-	-	8	RE 406	6	RE 394
15 ml. conical	ø17 x 122	18	-	12	-	6	RE 361	-	-	-	-	6	RE 394 (2)
10 ml. hs	ø16 x 80	18	RE 383	24	RE 384	6	RE 361	12	-	8	RE 391	6	RE 395
10 ml.	ø13 x 100	18	RE 359	24	RE 385	18	RE 360	-	-	8	RE 407	6	RE 396
10 ml. blood sample	ø16 x 107	18	-	24	-	6	RE 361	-	-	-	-	6	RE 394
7/10 ml. blood sample	ø13 x 107	18	RE 359	24	RE 385	6	RE 364	-	-	-	-	6	RE 396
5 ml.	ø13 x 75	18	RE 303	24	RE 306	18	RE 360	12	RE 389	8	RE 390	6	RE 397
5 ml. blood sample	ø13 x 82	18	RE 303	24	RE 306	6	RE 364	12	RE 389	8	RE 390	6	RE 397
1,5 x 75 mm. capillaries	ø1,5 x 75	-	-	-	-	-	-	-	-	-	-	-	-
Microtubes 1,5-2 ml.	ø11 x 39	-	-	-	-	18	RE 464	-	-	-	-	18	RE 433
Microtubes 0,5-0,6 ml.	ø8 x 30	-	-	-	-	-	-	-	-	-	-	-	-
Microtubes 0,2-0,4 ml.	ø6x45	-	-	-	-	-	-	-	-	-	-	-	-
Microtiter	128x86x15	-	-	-	-	-	-	-	-	-	-	-	-
Microtiter	128x86x21	-	-	-	-	-	-	-	-	-	-	-	-
Microtiter	128x86x45	-	-	-	-	-	-	-	-	-	-	-	-
Cell culture	128x86x22	-	-	-	-	-	-	-	-	-	-	-	-

# orto alresa

About centrifugation

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

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

Tel.: +34 91 884 40 16

**Álvarez Redondo S.A.**  
C/ Misericordia, 23.  
Fax: + 34 91 884 44 23  
28864 AJALVIR Madrid (Spain)  
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