

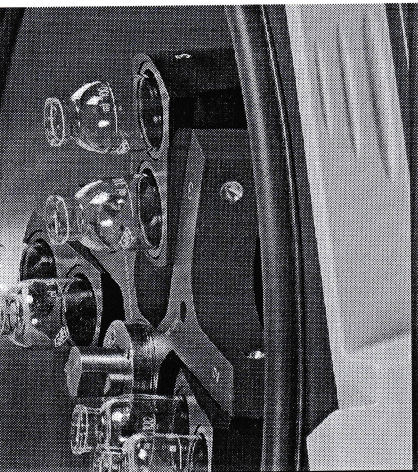
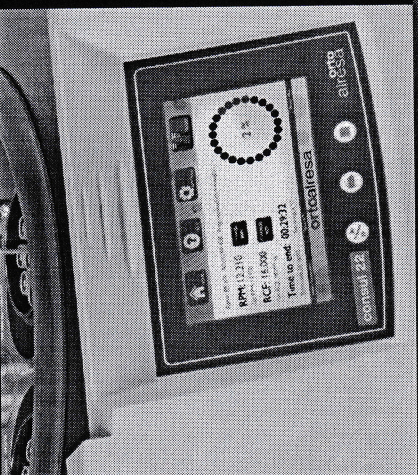
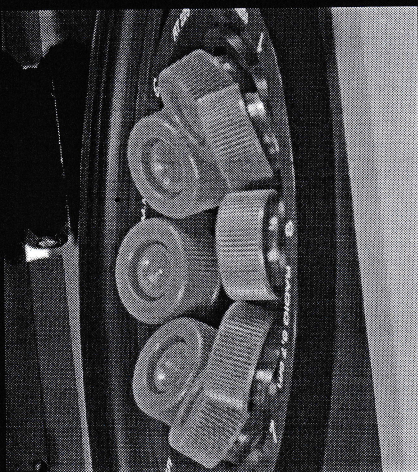
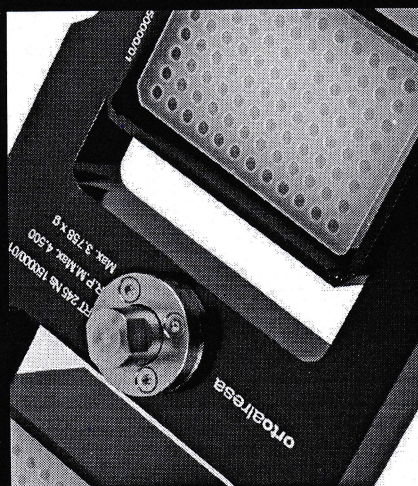
orto alresa

Centrifuges and laboratory products

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General applications: Centrifuges universal

Series DIGICEN 21

V.3

Digitally signed by Lazari Cristina
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DIGICEN 21

LCD 

IVD 



Centrifuges universal: Series Digicen 21

DIGICEN 21R



Max. capacity: 4 x 100 ml.
Max. volume: 480 ml.

Max. speed: 26.480 xg / 16.500 RPM

Versatility fused with effectiveness. The centrifuge Digicen 21 R has a wide range of angle fixed rotors, both for low revolutions, with capacity up to 32 tubes of 15 ml/15 ml. conical, and for microtubes, cryotubes and high speed tubes. For the swing out versions, it has rotors for 4 tubes of 100 ml. and up to 28 positions for 15 ml. tubes. The wide range of reducers that accompany each of these rotors give the great versatility that defines the universal centrifuges. Its powerful refrigeration system enables it to maintain the minimum temperature of the chamber below 4°C regardless of the type of rotor and the speed selected.

This particularity, joined to the control of the process of each of the stages and the parameters that control them, gives the user confidence in traceability during the centrifugation cycle.

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 "g" or at "set RPM/ RCF" for reproducible tests.
- Timer from 5 sec. 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 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).
- 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)	Frequency (Hz)	Consumption (W)	Z max advisable (Hz)
CE 113	590	620	320	65	220-230	50	700	< 0.446
CE 119	590	620	320	65	110-120	60	800	< 0.446

Accessories

Centrifuges series Digicen 21

ROTOR	RT 267	RT 143	RT 138	RT 150	MICROTUBES					
					RT 183	RT 151	RT 253			
Max. capacity	28 x 15 ml.	4 x 50 ml.	4 x 100 ml.	6/4/2 microtiter	ANGLE FIXED 45°	ANGLE FIXED 45°	ANGLE FIXED 45°			
RPM Max	5.000	5.300	5.000	4.000	32 x 0,2 ml.	24 x 1,5-2 ml.	12 x 5 ml			
Radius (mm)	147	145	147	122 (3)	16.500	16.500	16.500			
RCF Max. (xg)	4.108	4.554	4.109	2.182	55 (3)	82	87			
Min. temp. at max. speed (°C)	-6	-7	-7	-9	-6	-4	-2			
SAMPLE VOLUME	Dim (mm) approx.	ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS
		Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	
100 ml.	ø48 x 100	-	-	4	RE 446	-	-	-	-	-
85 ml. (hs) / 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 341	-	-	-	-	-
50 ml.	ø34 x 100	-	-	4	RE 445	-	-	-	-	-
50 ml. conical	ø29 x 117	-	-	4	RE 342	-	-	-	-	-
30 ml. / 30 ml. (hs)	ø25 x 98	-	-	4	RE 333	-	-	-	-	-
25 ml. conical	ø29 x 83	-	-	4	RE 596	-	-	-	-	-
15 ml.	ø16 x 100	28	-	4	RE 329	16	RE 316	-	-	-
15 ml. conical	ø17 x 122	4	-	4	RE 329	4/8	RE 339/579	-	-	-
10 ml. (hs)	ø16 x 80	28	-	4	RE 329	16	RE 316	-	-	-
10 ml.	ø13 x 100	28	RE 516	12	RE 313	20	RE 320	-	-	-
10 ml. blood sample	ø16 x 107	28	-	4	RE 329	16	RE 316	-	-	-
7/10 ml. blood sample	ø13 x 107	28	RE 516	4	RE 337	20	RE 320	-	-	-
5 ml.	ø13 x 75	28	RE 512	12	RE 313	20	RE 320	-	-	-
5 ml. conical / screw cup	ø17 x 60/68	-	-	-	-	-	-	-	-	-
5 ml. blood sample	ø13 x 82	28	RE 512	4	RE 337	20	RE 320	-	-	-
Microtubes 1,5-2 ml.	ø11 x 42	28	RE 578	12	RE 463	20	RE 408	72	RE 401	RE 506
Microtubes 0,5-0,6 ml.	ø8 x 30	28	RE 582	12	RE 531	20	RE 519	72	RE 580	RE 507
Microtubes 0,2-0,4 ml.	ø6 x 45	28	RE 583	12	RE 532	20	RE 473	72	RE 581	RE 508
Microtiter plates	128x86x15/21/45	-	-	-	-	-	-	6/4/2	-	-
Cell culture	128x86x22	-	-	-	-	-	-	4	-	-

(1) This rotor includes hermetic lids.

(2) Allows different configurations depending of the microplates height.

(3) Medium radius.

(4) Available adapters for cryotubes.

(5) Please check tubes features.

(6) Fitting these tubes the rotor can not be closed with the lid.

HIGH SPEED									
	RT 110	RT 108	RT 266	RT 121	RT 152	RT 153	RT 154		
								(5)	(5)
ROTOR	ANGLE FIXED 35°	ANGLE FIXED 35°	ANGLE FIXED 35°	ANGLE FIXED 45°	ANGLE FIXED 30°	ANGLE FIXED 30°	ANGLE FIXED 28°		
Max. capacity	24 x 5 ml.	24 x 15 ml.	32 x 15 ml.	6 x 50 ml.	12 x 10ml. Hermet	8 x 30 ml. Hermet	6 x 50 ml. Hermet		
RPM Max.	6.500	5.000	4.200	6.000	15.000	13.500	9.000		
Radius (mm)	113	132/114	149/130	132	78	92	101		
RCF Max. (xg)	5.338	3.689/3.186	2.938/2.563	5.313	19.621	18.746	9.146		
Min. temp. at max. speed (°C)	-4	-6	-5	-4	-5	-1	-4		
SAMPLE VOLUME	Dim (mm) approx.	ADAPTERS Tubes Ref.	ADAPTERS Tubes Ref.	ADAPTERS Tubes Ref.	ADAPTERS Tubes Ref.	ADAPTERS Tubes Ref.	ADAPTERS Tubes Ref.		
100 ml.	ø48 x 100	-	-	-	-	-	-		
85 ml. (hs) / 80 ml. (hs)	ø38 x 112	-	-	-	-	-	-		
80 ml.	ø44 x 100	-	-	-	-	-	-		
50 ml. (hs)	ø29 x 108	-	-	6	RE 365	-	6	RE 536	
50 ml.	ø34 x 100	-	-	6	RE 447	-	-	-	
50 ml. conical	ø29 x 117	-	-	6	RE 365	-	6	RE 536	
30 ml. / 30 ml. (hs)	ø25 x 98	-	-	6	RE 387	8	6	RE 392	
25 ml. conical	ø29 x 83	-	-	6	RE 598	-	6	RE 617	
15 ml.	ø16 x 100	-	24	32	RE 361	8	RE 406	6	RE 394
15 ml. conical	ø17 x 122	-	12	32	RE 361	-	-	6	RE 394 (6)
10 ml. (hs)	ø16 x 80	-	24	RE 384	32	RE 529	8	RE 391	6
10 ml.	ø13 x 100	-	24	RE 385	32	RE 518	8	RE 407	6
10 ml. blood sample	ø16 x 107	-	24	-	32	RE 361	6	RE 394	
7/10 ml. blood sample	ø13 x 107	-	24	RE 385	32	RE 518	6	RE 396	
5 ml.	ø13 x 75	24	RE 306	32	RE 517	18	RE 389	8	RE 397
5 ml. conical / screw cup	ø17 x 60/68	-	-	-	-	-	-	-	
5 ml. blood sample	ø13 x 82	24	RE 306	32	RE 517	6	RE 364	8	RE 397
Microtubes 1.5-2 ml.	ø11 x 42	-	24	RE 601	32	RE 602	18	RE 464	18
Microtubes 0.5-0.6 ml.	ø8 x 30	-	24	RE 603	32	RE 604	18	RE 533	18
Microtubes 0.2-0.4 ml.	ø6 x 45	-	24	RE 605	32	RE 606	18	RE 534	18
Microtiter plates	128x86x15/21/45	-	-	-	-	-	-	-	-
Cell culture	128x86x22	-	-	-	-	-	-	-	-

RT 128. Available rotor for capillaries (includes microhaematocrit reader card).