

A close-up photograph of Ortoalresa centrifuge components. In the foreground, a black plastic rotor is shown with a white cap and a label that reads '1' and 'ortoalresa Ns 220759/05'. To the right, several stainless steel tubes are arranged in a row, each with a gold-colored label that reads 'ortoalresa Ns 220607/02'. In the background, a black centrifuge bucket is visible, containing several red tubes. The image is set against a light, neutral background.

# orto alresa

About centrifugation

General applications | Series DIGICEN 22

# DIGICEN 22



**PULL to Remove**



orto  
alresa

digicen 22

Type	Number	Description	Max RPM	Max RCF
RT	322	24 x 5 ml	6.500	5.338
RT	329	24 x (1,5x75...	13.000	18.138
RT	316	4 x 50 ml	5.300	4.554
RT	317	4 x 100 ml H	5.000	4.033
RT	325	6 x 50 ml	6.000	5.313
RT	318	2,4x6 Microtiter	4.000	2.182

Work->Run

Abierta

**3 YEAR WARRANTY**



Universal by design. With a wide range of rotors for microplates, cryotubes, microtubes, tubes from 100 ml., with options as versatile as con 28 x 15 ml. tubes in a swing out rotor and 32 x 15 ml. conical tubes in an angle fixed rotor, and rotors for high speed 85 ml., 80 ml., 50 ml., 30 ml. and 10 ml. tubes.

Its accessories, provided with the REI system (Rotor Easy to Install) are securely installed on the rotor without the need for tools, and are unlocked by simply removing them from their position.

We have a device with which we can process a wide range of samples, offering the most exhaustive control of the equipment, as thanks to the free Ortoalresa SmartConnect application, you can access the centrifuge from the device of your choice; PC, tablet and mobile phone.

Just connect it to your lab's WiFi network and you will be able to manage and monitor your equipment from our app.

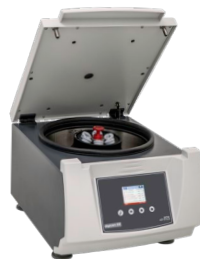
## Features

TFT color touch screen:

- Shows RPM and RCF, time and acceleration/deceleration values (PCBS)
- Speed programming in 10 RPM/10 xg steps.
- Real RCF values on screen based on accessories configuration.
- Count up/down from "0" or at "set RPM/RCF" for reproducible tests.
- Timer from 1 sec. to 99 hours programmable in 1 sec. steps and hold position.
- PCBS: Progressive controlled acceleration and braking system up to 175 selectable ramps that prevents sample homogenization after separation.
- Start delay: To program the time at which the cycle is to begin.
- Linked program: Permits the linking of up to 8 consecutive programs without the need of user intervention.
- 100 programmable memories, with protection under password.
- Several acoustic and visual messages showing the situation of the device to the user.

## Easy to use

- Provided with REI system (Rotor Easy to Install)
- Microprocessor controlled. Connectivity.
- Induction motor maintenance free (brushless).
- Rotors and adapters 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.
- Last values remain in memory.
- Automatic rotor recognition. Over-speed protection



**Max. Capacity**  
4 x 125 ml



**Max. Speed**  
26.480 xg / 16.500 RPM



**Screen Type**  
TFT



**Version**  
Ventilated



**Max. Volume**  
500 ml



EU Directives: 2011/65/EU, 2012/19/EU, 2014/30/EU, 2014/35/EU, 2017/746/EU  
Standards: EN 61010-1, EN 61010-2-101, EN 61010-2-020, EN 61326-2-6, EN 61326-1.

## 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 without tools (REI System)
- Forced ventilation to reduce temperature increasing.
- Automatic disconnection for energy saving up to 8 h., with deactivation option.

## Versions

	Dimensions (mm) (w x d x h)			Net Weight (Kg)	Voltage (V)	Frequency (Hz)	Consumption (W)
CE 257	410	520	320	35	220-230	50-60	400
CE 258	410	520	320	35	110-120	50-60	400

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

# DIGICEN 22 R



**PULL to Remove**

Prog:	000	Adapt.:	RE 342
Rotor:	RT 316	RCF:	4554 xg
RPM:	5300	Decel:	54 s
Accel:	53 s		
Time:	UNDEF.		

Abierta Work->Edit

orto  
alresa

digicen 22 R

**3 YEAR  
WARRANTY**



Versatility fused with effectiveness. The centrifuge Digicen 22 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. All its rotors are provided with the REI system (Rotor Easy to Install), which allows them to be securely installed on the rotor without the need for tools, and to be unlocked by simply removing them from their position.

Its powerful refrigeration system allows it to keep the minimum chamber temperature below 4°C regardless of the type of rotor and the selected speed.

For improved traceability, it has a connectivity system that allows the user to access the centrifuge from the device of their choice; PC, tablet and mobile phone thanks to the free Ortoalresa SmartConnect app.

Just connect it to your laboratory's WiFi network and you will be able to manage and monitor your equipment from our app.

## Features

TFT color touch screen:

- Shows RPM and RCF, time, temperature and acceleration/deceleration values (PCBS)
- Speed programming in 10 RPM/10 xg steps.
- Real RCF values on screen based on accessories configuration.
- Count up/down from "0" or at "set RPM/RCF" for reproducible tests.
- Timer from 1 sec. to 99 hours programmable in 1 sec. steps and hold position.
- PCBS: Progressive controlled acceleration and braking system up to 175 selectable ramps that prevents sample homogenization after separation.
- Start delay: To program the time at which the cycle is to begin.
- Linked program: Permits the linking of up to 8 consecutive programs without the need of user intervention.
- 100 programmable memories, with protection under password.
- Several acoustic and visual messages showing the situation of the device to the user.

## Easy to use

- Provided with REI system (Rotor Easy to Install)
- Microprocessor controlled. Connectivity.
- Induction motor maintenance free (brushless).
- Rotors and adapters 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.
- Last values remain in memory.
- Automatic rotor recognition. Over-speed protection.



**Max. Capacity**  
4 x 125 ml



**Max. Speed**  
26.480 xg / 16.500 RPM



**Screen Type**  
TFT



**Version**  
✓ Refrigerated



**Max. Volume**  
500 ml



EU Directives: 2011/65/EU, 2012/19/EU, 2014/30/EU, 2014/35/EU, 2017/746/EU.

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.

## 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 without tools (REI System)
- Automatic disconnection for energy saving up to 8 h.

## Refrigeration

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

## Versions

	Dimensions (mm) (w x d x h)			Net Weight (Kg)	Voltage (V)	Frequency (Hz)	Consumption (W)
CE 259	590	620	320	65	220-230	50	700
CE 260	590	620	320	65	110-120	60	700

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

## MICROTUBES

RT 315



RT 316



RT 317



(1) (2)

RT 318



(3)

RT 319



RT 320



RT 321



(5)

ROTOR		RT 315	RT 316	RT 317	RT 318	RT 319	RT 320	RT 321					
Max. capacity		28 x 15 ml.	4 x 50 ml.	4 x 100 ml.	6/4/2 microtiter	32 x 0,2 ml.	24 x 1,5-2 ml.	12 x 5 ml					
RPM Max.		5.000	5.300	5.000	4.000	16.500	16.500	16.500					
Radius (mm)		147	145	147	122 (4)	55 (4)	82	87					
RCF Max. (xg)		4.108	4.554	4.109	2.182	16.741	24.959	26.480					
Min. temp. at max. speed (°C)		-6	-7	-7	-9	-6	-4	-2					
SAMPLE VOLUME	Dim (mm) approx.	ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS	
		Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.
125 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 342	4	RE 341	-	-	-	-	-	-
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. / 30 ml. (hs)	ø25 x 98	-	-	4	RE 333	4	RE 332	-	-	-	-	-	-
25 ml. conical	ø29 x 83	-	-	4	RE 596	4	RE 597	-	-	-	-	-	-
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	RE 621	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	-	-	-	-	-	-	-	-	-	-	12/6	-
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	-	-	24	-
Microtubes 0,5-0,6 ml.	ø8 x 30	28	RE 582	12	RE 531	20	RE 519	72	RE 580	-	-	24	RE 305
Microtubes 0,2-0,4 ml.	ø6 x 45	28	RE 583	12	RE 532	20	RE 473	72	RE 581	32 x 0,2	-	24	RE 304
Microtiter plates	128x86x15/21/45	-	-	-	-	-	-	6/4/2	-	-	-	-	-
Cell culture	128x86x22	-	-	-	-	-	-	4	-	-	-	-	-

(1) This rotor includes hermetic lids.

(2) Fitting the tubes in RE 579 will not allow the rotor lid to be closed.

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








(4) Medium radius.

(5) Available adapters for cryotubes.

(6) Please check tubes features.

(7) Fitting these tubes will not allow the rotor lid to be closed.

RT 329: Available rotor for capillaries (includes microhematocrit reader card).

		HIGH SPEED													
		RT 322		RT 323		RT 324		RT 325		RT 326		RT 327		RT 328	
															
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		ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS	
		Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.
125 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	-
50 ml.	ø34 x 100	-	-	-	-	-	-	6	RE 447	-	-	-	-	-	-
50 ml. conical	ø29 x 117	-	-	-	-	-	-	6	RE 365	-	-	-	-	6	-
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	-	6	RE 361	-	-	8	RE 406	6	RE 394
15 ml. conical	ø17 x 122	-	-	12	-	32	-	6	RE 361	-	-	-	-	6	RE 394 (7)
10 ml. (hs)	ø16 x 80	-	-	24	RE 384	32	RE 529	6	RE 361	12	-	8	RE 391	6	RE 395
10 ml.	ø13 x 100	-	-	24	RE 385	32	RE 518	18	RE 360	-	-	8	RE 407	6	RE 396
10 ml. blood sample	ø16 x 107	-	-	24	-	32	-	6	RE 361	-	-	-	-	6	RE 394
7/10 ml. blood sample	ø13 x 107	-	-	24	RE 385	32	RE 518	6	RE 364	-	-	-	-	6	RE 396
5 ml.	ø13 x 75	24	-	24	RE 306	32	RE 517	18	RE 360	12	RE 389	8	RE 390	6	RE 397
5 ml. conical / screw cup	ø17 x 60/68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 ml. blood sample	ø13 x 82	24	-	24	RE 306	32	RE 517	6	RE 364	12	RE 389	8	RE 390	6	RE 397
Microtubes 1,5-2 ml.	ø11 x 42	-	-	24	RE 601	32	RE 602	18	RE 464	-	-	-	-	18	RE 433
Microtubes 0,5-0,6 ml.	ø8 x 30	-	-	24	RE 603	32	RE 604	18	RE 533	-	-	-	-	18	RE 575
Microtubes 0,2-0,4 ml.	ø6 x 45	-	-	24	RE 605	32	RE 606	18	RE 534	-	-	-	-	18	RE 576
Microtiter plates	128x86x15/21/45	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cell culture	128x86x22	-	-	-	-	-	-	-	-	-	-	-	-	-	-

# ROLLING TABLE

## Centrifuges accessories

With the aim of offering an alternative to those laboratories that need to increase their equipment, but do not have enough space, we have designed these rolling tables for our centrifuges.

This accessory allows the equipment to be positioned and moved easily thanks to its four 360° rotating wheels. Once the rolling table is located, and before starting to work with the centrifuge, the wheels can be fixed with the brake system that will prevent involuntary displacement during the centrifugation process. The robust design supports the weight of the equipment and prevents vibration transfer.

We offer two types of tables, one with height to locate the equipment at the same height as if they were on the laboratory table and another, that enables you to place your centrifuge under the table of your laboratory, saving even more space.

A solution for each type of need.

### References

	Dimensions (mm) (w x d x h)			Net weight (kg)	Centrifuge model
CP 007	560	590	580	65	Biocen 22 R, Bioprocen 22 R, Digicen 22 R, Consul 22 and Digtor 22
CP 008	440	500	690	65	Unicen 21 and Digicen 22
CP 009	750	730	350	70	Consul 22 R, Digtor 22 R and Dillitcen 22 R - to place under table
CP 010	750	730	580	90	Consul 22 R, Digtor 22 R and Dillitcen 22 R







## CONNECTIVITY

Being able to manage the information and performance of our centrifuge from a device with an Internet connection is now a reality.

Thanks to the free Ortoalresa SmartConnect application, you will be able to consult access your centrifuge from the device of your choice; PC, tablet and mobile phone.

You only need to connect it to the WiFi network of your laboratory to be able to manage and monitor your equipment from our app.

Ortoalresa SmartConnect allows:

- Monitoring of equipment.
- Adding multiple OA centrifuges to your control panel.
- Tracing the history of the executed programs and their results.
- Consulting the programmed work parameters: RPM, RCF, temperature, time, accessories...
- Notifications:
  - Informing and detailing any type of action and notice.
  - Security notifications, related to the maintenance of the centrifuge.
- Consulting the information related to the equipment: number of work cycles of its rotors, working hours of the centrifuge, calibration and maintenance of the equipment programming.
- Registering different users with different levels of accessibility and control.
- Technical service panel access, which allows quick and remote access for the resolve of interventions and diagnosis of the equipment by our qualified technicians.
- Complete traceability of the executed interactions identifying the user.
- Availability of technical documentation of the equipment.
- Downloading data and work cycles in csv (xls) format.





Address

Let Your Password

Forgot Password?

Login

John Doe

CE Lab  
Biocen 22 R

RPM  
1000

RCF  
1000

Duration  
33m

Rotor  
RT 286

Temp  
20°C

View all



View details

Tasks

Today

Completed Programs  
Group Lab-1

Bioproben 22 R

Microcen 24

Biocen 22 R

Biocen 22 R

John Doe

Connect to new Device

View details

View details

View details

View details

View details

Program 07

Program 12

Program 05

Program 01

Change profile picture

Delete profile picture

You will receive an email to confirm your decision.  
You only will be removed from your current groups  
and they will not be eliminated. [More info](#)

Delete Account

## REI SYSTEM (Rotor Easy to Install)

Our new REI (Rotor Easy to Install) system for quick and easy exchange of rotors, allows the rotor to be installed and locked securely without the need for tools, as well as unlocked by simply removing it from its position.

Thanks to its ergonomic design, it can be operated comfortably with one hand. The rotor can be removed and replaced in just a few seconds, without rotating the hand, or pressing buttons. It just needs to be positioned on the motor axis and it will be automatically anchored thanks to the REI system.

For greater security, the equipment screen warns the user if the rotor is not properly installed.

To remove it, gently lift the red handle, which will release the REI system allowing the rotor to be removed.





REI System  
ortolresa

ortolresa

Max. 5 000

RT 317 Ns 22077501

3

4

4

7

7






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**alresa**  
About centrifugation

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