

orto alresa

Centrifuges and laboratory products

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General applications: Centrifuges high capacity

DILITCEN 22

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TFT



Type	Rotor	Description	Min. RPM	Max. RPM
	RT 191	4 x 750 ml	3.700	3.122
	RT 199	4 x 250 ml	4.700	3.779
	RT 238	6 x 65 ml	9.000	10.142
	RT 243	4 x 1.050 ml	4.000	2.887
	RT 244	4 x 250 ml	2.500	1.491
	RT 256	10 x 1.5-2 ml	14.300	21.948

Centrifuges high capacity: Dilitcen 22

IVD CE

Max. capacity: 4 x 1000 ml.

Max. speed: 21.948 xg / 14.300 RPM

The largest of our benchtop machines, with a capacity of up to 4 litres and an ergonomic design that enables easy loading of the rotor, as well as traceability of the positioning of the samples so as to balance the load and for easy identification. It has a wide range of accessories with capacity for four 1.000 ml. bottles, microplates, microtubes and a large number of positions for the most commonly used 15 ml. conical, 50 ml. conical, 15 ml., 10 ml. and 5 ml. tubes for clinical as well as biotechnology applications.

Its colour TFT touch screen offers performance that enables, in addition to controlling the equipment by operational parameters, the possibility of exporting data for analysis and timer programmed operation. The autonomy provided by this equipment facilitates automation of work cycles and modes. This also ensures traceability of the process, not leaving any parameter uncontrolled and maintaining the process at all times.

Features

TFT color touch screen, visible from more than 3 m.:

- Shows RPM and RCF, time, acceleration/deceleration values (PCBS) and unbalancing location system (ULS).
- Speed programming in 10 RPM/10 xg steps.
- Real RCF values on screen based in accessories configuration.
- Count up/down from "0" or at "set RPM/RCF" for test reproducibility.
- Timer countdown/up from "0" or at "set RPM/ RCF" for reproducible tests.
- Timer from 1 min 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.
- ULS: Unbalancing location system indicating on the screen the number of the bucket which produces the unbalance switch off.
- 40 programmable memories, with protection under password.
- Several acoustic and visual messages warning the user the device situation.

Easy to use

- Microprocessor controlled. PC connection.
- Induction motor maintenance free (brushless).
- Rotors and adapters 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.
- 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.
- Rotors and adapters autoclavable, easy to install by the user.
- Forced ventilation to reduce temperature increasing.
- Automatic disconnection for energy saving up to 8 h., 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 61010-2-020, 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 206	540	650	390	50	220-230	50-60	1020
CE 207	540	650	390	50	110-120	50-60	1020

Accessories

Centrifuges Dilicen 22

RT 195



RT 192



RT 264



RT 191



(1)(3)

RT 265



RT 202



(3)

ROTOR		RT 195		RT 192		RT 264		RT 191		RT 265		RT 202	
		SWING OUT		SWING OUT		SWING OUT		SWING OUT		SWING OUT		SWING OUT	
Max. capacity		104 x 5 ml.		4 x 250 ml.		6 x 250 ml.		4 x 750 ml.		4 x 1.000 ml.		12/8/4 microtiter	
RPM Max.		3.800		4.200		2.500		3.700		4.000		3.700	
Radius (mm)		185		202		212		204		205		182 (2)	
RCF Max. (xg)		2.987		3.984		1.481		3.122		3.667		2.786	
SAMPLE VOLUME	Dim (mm) orientativas	ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS	
		Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.	Tubes	Ref.
1.000 ml.	ø110 x 122	-	-	-	-	-	-	-	-	4	-	-	-
750 ml.	ø96 x 130	-	-	-	-	-	-	4	RE 434	4	RE 522	-	-
500 ml.	ø90 x 120	-	-	-	-	-	-	4	RE 310	4	RE 541	-	-
250 ml.	ø62 x 120	-	-	4	RE 449	6	RE 530	4	RE 330	4	RE 543	-	-
100 ml.	ø48 x 100	-	-	4	RE 327	6	RE 558	4	RE 409	12	RE 544	-	-
85 ml. (hs) / 80 ml. (hs)	ø38 x 112	-	-	4	RE 498	6	RE 559	12	RE 500	-	-	-	-
80 ml.	ø44 x 100	-	-	4	RE 422	6	RE 560	8	RE 352	12	RE 557	-	-
50 ml.	ø34 x 100	-	-	4	RE 334	6	RE 561	16	RE 317	24	RE 545	-	-
50 ml. conical	ø29 x 117	-	-	4	RE 340	6	RE 562	20	RE 472	32	RE 546	-	-
30 ml. / 30 ml. (hs)	ø25 x 98	-	-	12	RE 312	18	RE 563	24	RE 322	40	RE 547	-	-
15 ml.	ø16 x 100	-	-	28	RE 376	42	RE 564	72	RE 348	112	RE 551	-	-
15 ml. conical	ø17 x 122	-	-	20	RE 321	30	RE 565	52	RE 347	76	RE 548	-	-
15 ml. blood sample	ø16 x 132	-	-	28	RE 376	-	-	32	RE 441	-	-	-	-
10 ml.	ø13 x 100	104	RE 309	40	RE 343	60	RE 566	84	RE 354	168	RE 552	-	-
10 ml. blood sample	ø16 x 107	-	-	28	RE 376	42	RE 564	72	RE 348	104	RE 549	-	-
7/10 ml. blood sample	ø13 x 107	104	RE 309	28	RE 324	42	RE 567	72	RE 349	104	RE 550	-	-
5 ml.	ø13 x 75	104	RE 388	40	RE 343	60	RE 566	84	RE 354	168	RE 552	-	-
5 ml. blood sample	ø13 x 82	104	RE 388	28	RE 324	42	RE 567	72	RE 349	104	RE 550	-	-
10 x 100 mm	ø10 x 100	-	-	52	RE 346	78	RE 568	144	RE 315	168	RE 553	-	-
Microtubes 1,5-2 ml.	ø11x42	-	-	24	RE 440	36	RE 569	72	RE 426	132	RE 554	144	RE 460
Microtubes 0,5-0,6 ml.	ø8x30	-	-	24	RE 523	36	RE 570	72	RE 466	132	RE 555	-	-
Microtubes 0,2-0,4 ml.	ø6x45	-	-	24	RE 458	36	RE 571	72	RE 524	132	RE 556	-	-
Microtiter plates	128x86x15/21/45	-	-	-	-	-	-	12/8/4	RE 307	-	-	12/8/4	-

(1) This rotor can be supplied with four lids (RE 356). (2) Medium radius on bucket. (3) Allows different configurations depending of the microplates height.

		HIGH SPEED									
		RT 197		RT 198		RT 199		RT 206		RT 238	
		ANGLE FIXED 45°		ANGLE FIXED 45°		ANGLE FIXED 30°		ANGLE FIXED 45°		ANGLE FIXED 30°	
ROTOR		8 x 50 ml.		4 x 100 ml.		4 x 250 ml.		30 x 1,5-2 ml.		6 x 85 ml	
Max. capacity		6.000		5.600		4.700		14.300		9.000	
RPM Max.		149		138		153		96		112	
Radius (mm)		5.997		4.838		3.779		21.948		10.142	
RCF Max. (xg)		ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS		ADAPTERS	
SAMPLE VOLUME		Dim (mm) approx.		Tubes Ref.		Tubes Ref.		Tubes Ref.		Tubes Ref.	
1.000 ml.	ø110 x 122	-	-	-	-	-	-	-	-	-	-
750 ml.	ø96 x 130	-	-	-	-	-	-	-	-	-	-
500 ml.	ø90 x 120	-	-	-	-	-	-	-	-	-	-
250 ml.	ø62 x 120	-	-	-	-	4	RE 449	-	-	-	-
100 ml.	ø48 x 100	-	-	4	RE 446	4	RE 327	-	-	-	-
85 ml. (hs) / 80 ml. (hs)	ø38 x 112	-	-	4	RE 502	4	RE 498	-	-	6	-
80 ml.	ø44 x 100	-	-	4	RE 338	4	RE 422	-	-	-	-
50 ml.	ø34 x 100	8	RE 448	4	RE 335	4	RE 334	-	-	6	RE 490
50 ml. conical	ø29 x 117	8	RE 375	4	RE 341	4	RE 340	-	-	6	RE 483
30 ml. / 30 ml. (hs)	ø25 x 98	8	RE 370	4	RE 332	12	RE 312	-	-	6	RE 493
15 ml.	ø16 x 100	8	RE 369	16	RE 316	28	RE 376	-	-	18	RE 485
15 ml. conical	ø17 x 122	8	RE 369	4	RE 339	20	RE 321	-	-	6	RE 484
15 ml. blood sample	ø16 x 132	8	RE 369	-	-	28	RE 376	-	-	-	-
10 ml.	ø13 x 100	24	RE 366	20	RE 320	40	RE 343	-	-	30	RE 497
10 ml. blood sample	ø16 x 107	8	RE 369	16	RE 316	28	RE 376	-	-	18	RE 485
7/10 ml. blood sample	ø13 x 107	8	RE 373	20	RE 320	28	RE 324	-	-	18	RE 503
5 ml.	ø13 x 75	24	RE 366	20	RE 320	40	RE 343	-	-	30	RE 501
5 ml. blood sample	ø13 x 82	8	RE 373	20	RE 320	28	RE 324	-	-	18	RE 492
10 x 100 mm	ø10 x 100	24	RE 367	36	RE 326	52	RE 346	-	-	-	-
Microtubes 1,5-2 ml.	ø11x42	24	RE 465	20	RE 408	24	RE 440	30	-	24	RE 494
Microtubes 0,5-0,6 ml.	ø8x30	24	RE 535	20	RE 519	24	RE 523	30	RE 428	24	RE 495
Microtubes 0,2-0,4 ml.	ø6x45	24	RE 526	20	RE 473	24	RE 458	30	RE 427	24	RE 496
Microtiter plates	128x86x15/21/45	-	-	-	-	-	-	-	-	-	-



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About centrifugation

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Subject to modifications

