

# ortoalresa

Centrifuges and laboratory products

**DIGTOR 21 / DIGTOR 21R V.2**

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# DIGTOR 21



The centrifuge **Digtor 21** is a versatile device, allowing be present on routine labs, research, biotechnology, quality control, hospitals, etc.

It is provided of several advantages as:

- Innovation: with a TFT touch screen allowing operator the highest autonomy, controlling the separation, as well as a save energy system selectable.
- Versatility: since 4 x 750 ml, 52 conical tubes of 15 ml, rotor for microplates, microtubes, and a wide range of adapters.
- Safety: always shown on screen real values of RCF, based on accessories selection, automatically, no data introduction is required .Accessories for bio containment.
- Efficiency: Max RCF 20.804 x g, selection of acceleration and braking time, depending of sample performances.

**Your best partner on lab.**

## Use friendlinessly

- TFT touch screen easy to read and values selection.
- Informative Wheel about the progress of stages of centrifugation
- Rotor list on memory.
- Real values on screen of RCF based on accessories configuration.
- Timer count up/down, from 0 or at "set RPM/RCF" for test reproducibility.
- Short spin key with speed adjustable.
- Up to 175 acceleration ramps and up to 175 braking ramps.
- Automatic open lid (only non-refrigerated) .
- Automatic rotor recognition.
- Lid latch lock.
- Microprocessor controlled.
- Option: free or locked adjustment of RPM/RCF along the run.

## Features

- Induction motor maintenance free
- High capacity: Max. Volume 4 x 750 ml.
- High Speed, up to 20.804x g./14.300 RPM.
- Quiet: noise level < 60 dB.
- 16 memories for programs.

## Safety

- Lid locking and holding as well as lid dropping protection.
- Imbalance switch off.
- Manual overriding.
- Chamber of centrifugation in stainless Steel.
- Viewing and calibration prot in the lid.
- Several messages keep the operator informed about the device situation.
- Guard ring between the chamber of centrifugation and the housing.
- Forced ventilation which reduces the temperature increase (only non-refrigerated).

**EC Directives:** 98/79/EC, 2006/95/EC, 2004/108/EC; 2002/95/EC, 2002/96/EC, 2003/108/EC.

**Standards:** 61010-1:2002, 61010-2-020:2006,61326-1:2006

## Versions

Ref	Dimensions ( mm)( w x d x h )			Net weight (Kg)	Voltage (V)	Frecuency (Hz)	Power (W)
CE 112	540	650	390	50	220-240	50-60	980
CE 118	540	650	390	50	110-120	50-60	980

# DIGTOR 21 R



**WORK**   **PROGRAM SETUP**   **MENU**   

Prog: 01	Name: MICROPLATE
Rotor: RT 202	Adapt: -
Spin time: 0h20m00s	RCF: 2.493
RPM: 3.500	Decoel: 71s
Accel: 70s	
Set T.: 4 °C	T: 12 °C
Status: Open	

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digtor 21 R



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IVD CE

The Serie Digtor 21 is formed from 4 devices highly functional, so that allow be present on routine labs, research, biotechnology, quality control ...

The **Digtor 21 R** centrifuge is defined by several attributes as:

- **Innovation:** its provided of TFT touch screen allowing higher automony to the operator as well as control the separation stages, and save energy system selectable.
- **Versatility:** from 4 x 750 ml, 52 conical tubes of 15 ml, rotor for microplates, microtubes, and a wide range of adapter for each one.
- **Safety:** It shows the real value of RCF based on accessories configuration, without introduce any parameter, as well as is provided of biocontainment accesories.
- **Efficiency:** Max RCF 20.804 x g, acceleration and deceleration time selectable, depending of sample features, dynamic cooling system which reduces the time to reach the selected temperature.

**Your best help in your lab.**

## Use friendlinessly

- TFT touch screen easy to read and values selection.
- Informative Wheel about the progress of stages of centrifugation
- Rotor list on memory.
- Real values on screen of RCF based on accessories configuration.
- Timer count up/down, from 0 or at "set RPM/RCF" for test reproducibility.
- Short spin key with speed adjustable.
- Up to 175 acceleration ramps and up to 175 braking ramps.
- Automatic open lid (only non-refrigerated) .
- Automatic rotor recognition.
- Lid latch lock.
- Microprocessor controlled.
- Option: free or locked adjustment of RPM/RCF along the run.

## Features

- Induction motor maintenance free
- High capacity: Max. Volume 4 x 750 ml.
- High Speed, up to 20.804x g./14.300 RPM.
- Quiet: noise level < 60 dB.
- 15 memories + pre-cooling program.

## Safety

- Lid locking and holding as well as lid dropping protection.
- Imbalance switch off.
- Manual overriding.
- Chamber of centrifugation in stainless Steel.
- Viewing and calibration prot in the lid.
- Several messages keep the operator informed about the device situation.
- Guard ring between the chamber of centrifugation and the housing.
- Forced ventilation which reduces the temperature increase (only non-refrigerated).

## Cooling

- Precooling program with rotor spinning and temperature selectable by operator.
- 4 °C at least at max speed with any rotor.
- Range of temperature -20°C (-4 °F) a 40°C(104 °F)
- Scale Celsius or Fahrenheit.
- Temperature sensor inside the chamber.
- Gas R 404A HFC.

**EC Directives:** 98/79/EC, 2006/95/EC, 2004/108/EC; 2002/95/EC, 2002/96/EC, 2003/108/EC.

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

**Standards:** 61010-1:2002, 61010-2-020:2006, 61326-1:2006

## Versions

Ref	Dimensions ( mm)( w x d x h )			Net weight (Kg)	Voltage (V)	Frecuency (Hz)	Power (W)	Z max advisable (Hz)
CE 115	720	805	390	95	220-240	50-60	1500	<  0.446
CE 121	720	805	390	95	110-120	50-60	1500	<  0.446

## Accesories for centrifuges Digtor 21 Series

															
ROTOR		SWING OUT	SWING OUT	SWING OUT	ANGLE FIXED 35°	ANGLE FIXED 45°	ANGLE FIXED 45°	ANGLE FIXED 30°							
Capacity		104 x 5 ml.	4 x 250 ml.	4 x 750 ml.	8 x 30 ml.	8 x 50 ml.	4 x 100 ml.	4 x 250 ml.							
R.P.M.		3.800	4.200	3.700	11.000	6.000	5.600	4.700							
Radius mm		185	202	204	102	149	138	153							
R.C.F.		2.583	3.984	3.030	13.798	5.997	4.838	3.779							
Min Temperature at max speed °C		-4	-2	-4	-3	-4	-4	-4							
	Dim (mm)	ADAPTERS Tubes REF.		ADAPTERS Tubes REF.		ADAPTERS Tubes REF.		ADAPTERS Tubes REF.		ADAPTERS Tubes REF.		ADAPTERS Tubes REF.		ADAPTERS Tubes REF.	
750 ml.	ø96 x 130	-	-	-	-	4	RE 434	-	-	-	-	-	-	-	-
500 ml.	ø90 x 120	-	-	-	-	4	RE 310	-	-	-	-	-	-	-	-
250 ml.	ø61 x 129	-	-	4	RE 449	4	RE 330	-	-	-	-	-	-	4	RE 449
100 ml.	ø48 x 95	-	-	4	RE 327	4	RE 409	-	-	-	-	4	RE 446	4	RE 327
80 ml.	ø44 x 100	-	-	4	RE 422	8	RE 352	-	-	-	-	4	RE 338	4	RE 422
50 ml.	ø35 x 100	-	-	4	RE 334	16	RE 317	-	-	8	RE 448	4	RE 335	4	RE 334
50 ml. conical	ø29 x 117	-	-	4	RE 340	16	RE 318	-	-	8	RE 375	4	RE 341	4	RE 340
30 ml.	ø25 x 96	-	-	12	RE 312	24	RE 322	8	-	8	RE 370	4	RE 332	12	RE 312
15 ml.	ø16 x 100	-	-	28	RE 376	72	RE 348	8	RE 368	8	RE 369	16	RE 316	28	RE 376
15 ml. conical	ø17 x 122	-	-	20	RE 321	52	RE 347	8	RE 368	8	RE 369	4	RE 339	20	RE 321
15 ml. blood tubes	ø16 x 132	-	-	28	RE 376	32	RE 441	8	RE 368	8	RE 369	-	-	28	RE 376
10 ml.	ø13 x 100	104	RE 309	40	RE 343	84	RE 354	8	RE 372	24	RE 366	20	RE 320	40	RE 343
10 ml. blood tubes	ø16 x 107	-	-	28	RE 376	72	RE 348	8	RE 368	8	RE 369	16	RE 316	28	RE 376
7/10 ml. blood tubes	ø13 x 107	104	RE 309	28	RE 324	72	RE 349	8	RE 372	8	RE 373	20	RE 320	28	RE 324
5 ml.	ø13 x 75	104	RE 388	40	RE 343	84	RE 354	8	RE 372	24	RE 366	20	RE 320	40	RE 343
5 ml. blood tubes	ø13 x 82	104	RE 388	28	RE 324	72	RE 349	8	RE 372	8	RE 373	20	RE 320	28	RE 324
10 x 100 mm	ø10 x 100	-	-	52	RE 346	144	RE 315	8	RE 374	24	RE 367	36	RE 326	52	RE 346
128x86x15 microtiter	ø128x86x15	-	-	-	-	12	RE 307	-	-	-	-	-	-	-	-
microtubes 1,5-2 ml.	ø11x39	-	-	24	RE 440	72	RE 426	-	-	24	RE 465	20	RE 408	24	RE 440
microtubes 0,5-0,6 ml.	ø8x30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
microtubes 0,2-0,4 ml.	ø6x45	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(1) Available lids for that buckets (RE 356) | (2) This rotor can fit adapters for blood bags (RE 308) | (3) Medium radius on bucket | (4) Fitting this adapters does not allow buckets lids

		RT 206		RT 201 (1) (2)		RT 202	
ROTOR		ANGLE FIXED 45°		SWING OUT		SWING OUT	
Capacity		30 x 1,5-2 ml.		4 blood bag		12 microtiter plates	
R.P.M.		14.300		3.700		3.500	
Radius mm		96		204		182 (3)	
R.C.F.		20.804		3.030		2.493	
Min Temperature at max speed °C		-4		-3		-4	
		ADAPTERS		ADAPTERS		ADAPTERS	
	Dim (mm)	Tubes	REF.	Tubes	REF.	Tubes	REF.
750 ml.	ø96 x 130	-	-	4	RE 434	-	-
500 ml.	ø90 x 120	-	-	4	RE 310	-	-
250 ml.	ø61 x 129	-	-	4	RE 330	-	-
100 ml.	ø48 x 95	-	-	4	RE 409	-	-
80 ml.	ø44 x 100	-	-	8	RE 352	-	-
50 ml.	ø35 x 100	-	-	16	RE 317	-	-
50 ml. conical	ø29 x 117	-	-	16	RE 318	-	-
30 ml.	ø25 x 96	-	-	24	RE 322	-	-
15 ml.	ø16 x 100	-	-	72	RE 348	-	-
15 ml. conical	ø17 x 122	-	-	52	RE 347	-	-
15 ml. blood tubes	ø16 x 132	-	-	32	RE 441	-	-
10 ml.	ø13 x 100	-	-	84	RE 354	-	-
10 ml. blood tubes	ø16 x 107	-	-	72	RE 348	-	-
7/10 ml. blood tubes	ø13 x 107	-	-	72	RE 349	-	-
5 ml.	ø13 x 75	-	-	84	RE 354	-	-
5 ml. blood tubes	ø13 x 82	-	-	72	RE 349	-	-
10 x 100 mm	ø10 x 100	-	-	144	RE 315	-	-
128x86x15 microtiter	ø128x86x15	-	-	12	RE 307	12	-
microtubes 1,5-2 ml.	ø11x39	30	-	72	RE 426	144	RE 460
microtubes 0,5-0,6 ml.	ø8x30	30	RE 428	-	-	-	-
microtubes 0,2-0,4 ml.	ø6x45	30	RE 427	-	-	-	-

