

ortoalresa

Centrifuges and laboratory products

MAGNUS 21 / MAGNUS 21R V.2

MAGNUS 21



High capacity on a underfloor centrifuge which offer to their users several advantages, up to now only available on devices dedicated to research.

The TFT touch screen Simplify the parameter selection; main values appear only in one screen as time, RPM, RCF, acceleration and braking.

The operator menu allows other values adjustment as open lid once the rotor stops, locking RPM / RCF along the run, selection of time from 0 or at set RPM/RCF.

Along centrifugation it showed on screen a graphic indicating its status as well as the stage of centrifugation, time to end of process, with graphi and values easily seeable from long distances, increasing the operator autonomy.

The **Magnus 21** can spin up to 4 x 750 ml,4 blood bags 72 tubes of 15 ml,16 tubes of 50 ml conical and 52 tubes of and 15 ml conical, microtubes, microplates , as well as a wide set of adapters for each one.

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 128	540	650	930	113	220-240	50-60	980
CE 130	540	650	930	113	110-120	50-60	980

MAGNUS 21 R



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IVD CE

High capacity on a underfloor centrifuge which offer to their users several advantages, up to now only available on devices dedicated to research. The TFT touch screen simplifies the parameter selection; main values appear only in one screen as time, RPM, RCF, acceleration and braking.

The operator menu allows other values adjustment as open lid once the rotor stops, locking RPM / RCF along the run, selection of time from 0 or at set RPM/RCF.

Along centrifugation it showed on screen a graphic indicating its status as well as the stage of centrifugation, time to end of process.

The devices included on Serie **Magnus 21** are highly functionals, they can spin up to 4 x 750 ml, 4 blood bags 72 tubes of 15 ml, 16 tubes of 50 ml conical and 52 tubes of and 15 ml conical, microtubes, microplates, as well as a wide set of adapters for each one.

Devoted to centrifugation.

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 (Magnus 21R)

- 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)
	540	650	930					
CE 129	540	650	930	145	220-240	50-60	1500	< 0.446
CE 131	540	650	930	145	110-120	50-60	1500	< 0.446

Accesories for centrifuges Magnus 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	20	RE 472	-	-	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

		RT 206		RT 201 (1) (2)		RT 202	
		ANGLE FIXED 45°		SWING OUT		SWING OUT	
ROTOR		30 x 1,5-2 ml.		4 blood bag		12 microtiter plates	
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	-	-	20	RE 472	-	-
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	-	-	-	-

