

ortoalresa

Centrifuges and laboratory products

DIGICEN 21 / DIGICEN 21R V.2

DIGICEN 21



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IVD CE

The centrifuge **Digicen 21** highlights for its versatility among the universal centrifuges and it's provided of:

- Swing out rotors for max 4 x 100 ml for tubes , microplates as well as microtubes.
- Angle fixed low speed up to 24 tubes of 15ml,
- Angle fixed low speed for microtubes up to 50 ml conical.

It's controlled through **LCD screen** showing centrifugation values as time, RPM/RCF, as well as braking time, graphic for open lid, progress bar , messages and acoustic signals for error or end of program , which provides the user the process monitoring.

Thinking on centrifugation.

Use friendlinessly

- LCD screen shown RPM/RCF ,time, temperature and braking.
- Intuitive handling through start, stop, short spin and lid keys.
- Rotor list on memory.
- Timer count up/down, from 0 or at "set RPM/RCF" for test reproducibility.
- Short spin key with speed adjustable.
- Automatic rotor recognition.
- Acceleration and braking selectable by operator.
- 16 memories.
- Automatic open lid(non-refrigerated)
- Lid latch lock.
- Microprocessor controlled.
- Option: free or locked adjustment of RPM/RCF along the run.

Features

- Induction motor maintenance free
- Capacity Max. 4 x 100 ml.
- Speed, up to 24.959 x g/16.500 RPM.
- Quiet: noise level < 60 dB.

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 port in the lid.
- Several messages keep the operator informed about the device situation.
- Guard ring between the chamber of centrifugation and the housing.

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 110 | 410 | 530 | 320 | 36 | 220-240 | 50-60 | 280 |
| CE 116 | 410 | 530 | 320 | 36 | 110-120 | 50-60 | 280 |

DIGICEN 21 R



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IVD CE

The centrifuge refrigerated **Digicen 21 R** can reach up to 24.959 x g with a wide range of rotors;

Swing out rotors, with a max volume of 4 x 100 ml which can fit several set of adapters for tubes with or without caps, microtubes, microplates.

Angle fixed low speed for routine purposes.

Angle fixed high speed from microtubes to 50 ml conical tubes.

On LCD screen shown the selectable values as time, RPM, RCF, temperature and braking time as well as graphics for lid open, progress bar, and acoustic signals for a better control about the process by operator.

Stabilizing sample preparation.

Use friendlinessly

- LCD screen shown RPM/RCF ,time, temperature and braking.
- Intuitive handling through start, stop, short spin and lid keys.
- Rotor list on memory.
- Timer count up/down, from 0 or at "set RPM/RCF" for test reproducibility.
- Short spin key with speed adjustable.
- Automatic rotor recognition.
- Acceleration and braking selectable by operator.
- 15 memories and pre-cooling program.
- Automatic open lid(non-refrigerated)
- Lid latch lock.
- Microprocessor controlled.
- Option: free or locked adjustment of RPM/RCF along the run.

Features

- Induction motor maintenance free
- Capacity Max .4 x 100 ml.
- Speed, up to 24.959 x g/16.500 RPM.
- Quiet: noise level < 60 dB.

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 port in the lid.
- Several messages keep the operator informed about the device situation.
- Guard ring between the chamber of centrifugation and the housing.

Cooling

- Precooling program with rotor spinning and temperature selectable by operator.
- 4 °C at Max speed as higher.
- Temperature range -20 °C(-4 °F) to 40°C(104 °F)
- Temperature sensor inside the chamber, gas R 134A 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 aconsejable (Hz) |
|--------|----------------------------------|-----|-----|-----------------------|----------------|-------------------|-----------|------------------------------|
| CE 113 | 590 | 680 | 320 | 67 | 220-240 | 50-60 | 700 | < 0.446 |
| CE 119 | 590 | 680 | 320 | 67 | 110-120 | 50-60 | 700 | < 0.446 |

Accessories for centrifuges Digicen 21 Series

| | |  |  |  |  |  |  |  | | | | | | | |
|---------------------------------|-----------|---|---|--|---|---|---|---|------|-----------------|------|-----------------|--------|-----------------|------|
| ROTOR | | SWING OUT | SWING OUT | SWING OUT | ANGLE FIXED | HORIZONTAL | ANGLE FIXED 45 ° | ANGLE FIXED 35 ° | | | | | | | |
| Capacity | | 4 x 50 ml. | 4 x 100 ml. | 2,4 o 6 Microtiter | 32 de 0,2 ml. | 24 de 1,5x 75 mm. | 24 de 1,5-2 ml. | 24 x 5 ml. | | | | | | | |
| R.P.M. | | 5.300 | 5.000 | 4.000 | 16.500 | 13.000 | 16.500 | 6.500 | | | | | | | |
| Radius mm | | 145 | 147 | 122 (4) | 55 (4) | 86 | 82 | 113 | | | | | | | |
| R.C.F. | | 4.554 | 4.109 | 2.182 | 16.741 | 16.250 | 24.959 | 5.338 | | | | | | | |
| Min Temperature at max speed °C | | -4 | -4 | 0 | 2 | 1 | 2 | 1 | | | | | | | |
| | | ADAPTERS | | ADAPTERS | | ADAPTERS | | ADAPTERS | | ADAPTERS | | ADAPTERS | | ADAPTERS | |
| Dim (mm) | | Tubes | REF. | Tubes | REF. | Tubes | REF. | Tubes | REF. | Tubes | REF. | Tubes | REF. | Tubes | REF. |
| 100 ml. | ø48 x 95 | - | - | 4 | RE 446 | - | - | - | - | - | - | - | - | - | - |
| 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 378 | 4 | RE 381 | - | - | - | - | - | - | - | - | - | - |
| 50 ml. | ø35 x 100 | 4 | RE 445 | 4 | RE 335 | - | - | - | - | - | - | - | - | - | - |
| 50 ml. conical | ø29 x 117 | 4 | RE 342 | 4 | RE 341 | - | - | - | - | - | - | - | - | - | - |
| 30 ml. hs | ø25 x 98 | 4 | RE 379 | 4 | RE 382 | - | - | - | - | - | - | - | - | - | - |
| 30 ml. | ø25 x 96 | 4 | RE 333 | 4 | RE 332 | - | - | - | - | - | - | - | - | - | - |
| 15 ml. | ø16 x 100 | 4 | RE 329 | 16 | RE 316 | - | - | - | - | - | - | - | - | - | - |
| 15 ml. conical | ø17 x 122 | 4 | RE 329 | 4 | RE 339 | - | - | - | - | - | - | - | - | - | - |
| 10 ml. hs | ø16 x 80 | 4 | RE 329 | 16 | RE 316 | - | - | - | - | - | - | - | - | - | - |
| 10 ml. | ø13 x 100 | 12 | RE 313 | 20 | RE 320 | - | - | - | - | - | - | - | - | - | - |
| 10 ml. blood tubes | ø16 x 107 | 4 | RE 329 | 16 | RE 316 | - | - | - | - | - | - | - | - | - | - |
| 7/10 ml. blood tubes | ø13 x 107 | 4 | RE 337 | 20 | RE 320 | - | - | - | - | - | - | - | - | - | - |
| 5 ml. | ø13 x 75 | 12 | RE 313 | 20 | RE 320 | - | - | - | - | - | - | - | - | 24 | - |
| 5 ml. extr. blood tubes | ø13 x 82 | 4 | RE 337 | 20 | RE 320 | - | - | - | - | - | - | - | - | 24 | - |
| 1,5 x 75 mm. capillaries | ø1,5x75 | - | - | - | - | - | - | - | 24 | - | - | - | - | - | - |
| microtubes 1,5-2 ml. | ø11x39 | 12 | RE 463 | 20 | RE 408 | 72 | RE 401 | - | - | - | - | 24 | - | - | - |
| microtubes 0,5-0,6 ml. | ø8x30 | - | - | - | - | - | - | - | - | - | - | 24 | RE 305 | - | - |
| microtubes 0,2-0,4 ml. | ø6x45 | - | - | - | - | - | - | 32 de 0,2 ml. | - | - | - | 24 | RE 304 | - | - |
| 128x86x15 microtiter | | - | - | - | - | 6 | - | - | - | - | - | - | - | - | - |
| 128x86x21 microtiter | | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - |
| 128x86x45 microtiter | | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 128x86x22 cell culture | | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - |

(1) This rotor includes hermetic lids | (2) Fitting this tubes rotor lid can not be closed | (3) Check tubes features | (4) Medium radio on bucket

| | |  |  |  |  |  |  | | | | | | |
|------------------------------------|-----------|---|---|---|---|---|---|----------|--------|----------|--------|----------|------------|
| ROTOR | | ANGLE FIXED 35 ° | ANGLE FIXED 35 ° | ANGLE FIXED 45 ° | ANGLE FIXED 30 ° | ANGLE FIXED 30 ° | ANGLE FIXED 28 ° | | | | | | |
| Capacity | | 18 x 15 ml. | 24 x 15 ml. | 6 x 50 ml. | 12 x 10ml. Hermet | 8 x 30 ml. Hermet | 6 x 50 ml. Hermet | | | | | | |
| R.P.M. | | 4.200 | 4.200 | 6.000 | 15.000 | 13.500 | 9.000 | | | | | | |
| Radius mm | | 132 | 132/114 | 132 | 78 | 92 | 101 | | | | | | |
| R.C.F. | | 2.603 | 2603/2248 | 5.313 | 19.621 | 18.746 | 9.146 | | | | | | |
| Min Temperature at max speed °C | | 0 | -1 | 1 | 4 | 4 | 1 | | | | | | |
| | | ADAPTERS | | ADAPTERS | | ADAPTERS | | ADAPTERS | | ADAPTERS | | ADAPTERS | |
| | Dim (mm) | Tubes | REF. | Tubes | REF. | Tubes | REF. | Tubes | REF. | Tubes | REF. | Tubes | REF. |
| 100 ml. | ø48 x 95 | - | - | - | - | - | - | - | - | - | - | - | - |
| 80 ml. hs | ø38 x 112 | - | - | - | - | - | - | - | - | - | - | - | - |
| 80 ml. | ø44 x 100 | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 ml. hs | ø29 x 108 | - | - | - | - | 6 | RE 386 | - | - | - | - | 6 | - |
| 50 ml. | ø35 x 100 | - | - | - | - | 6 | RE 447 | - | - | - | - | - | - |
| 50 ml. conical | ø29 x 117 | - | - | - | - | 6 | RE 365 | - | - | - | - | 6 | - |
| 30 ml. hs | ø25 x 98 | - | - | - | - | 6 | RE 387 | - | - | 8 | - | 6 | RE 392 |
| 30 ml. | ø25 x 95 | - | - | - | - | 6 | RE 362 | - | - | 8 | - | 6 | RE 393 |
| 15 ml. | ø16 x 100 | 18 | - | 24 | - | 6 | RE 361 | - | - | 8 | RE 406 | 6 | RE 394 |
| 15 ml. conical | ø17 x 122 | 18 | - | 12 | - | 6 | RE 361 | - | - | - | - | 6 | RE 394 (2) |
| 10 ml. hs | ø16 x 80 | 18 | RE 383 | 24 | RE 384 | 6 | RE 361 | 12 | - | 8 | RE 391 | 6 | RE 395 |
| 10 ml. | ø13 x 100 | 18 | RE 359 | 24 | RE 385 | 18 | RE 360 | - | - | 8 | RE 407 | 6 | RE 396 |
| 10 ml. blood tubes | ø16 x 107 | 18 | - | 24 | - | 6 | RE 361 | - | - | - | - | 6 | RE 394 |
| 7/10 ml. blood tubes | ø13 x 107 | 18 | RE 359 | 24 | RE 385 | 6 | RE 364 | - | - | - | - | 6 | RE 396 |
| 5 ml. | ø13 x 75 | 18 | RE 303 | 24 | RE 306 | 18 | RE 360 | 12 | RE 389 | 8 | RE 390 | 6 | RE 397 |
| 5 ml. extr. blood tubes | ø13 x 82 | 18 | RE 303 | 24 | RE 306 | 6 | RE 364 | 12 | RE 389 | 8 | RE 390 | 6 | RE 397 |
| 1,5 x 75 mm. capillaries | ø1,5 x 75 | - | - | - | - | - | - | - | - | - | - | - | - |
| microtubes 1,5-2 ml. | ø11 x 39 | - | - | - | - | 18 | RE 464 | - | - | - | - | 18 | RE 433 |
| microtubes 0,5-0,6 ml. | ø8 x 30 | - | - | - | - | - | - | - | - | - | - | - | - |
| microtubes 0,2-0,4 ml. | ø6x45 | - | - | - | - | - | - | - | - | - | - | - | - |
| 128x86x15 microtiter | | - | - | - | - | - | - | - | - | - | - | - | - |
| 128x86x21 microtiter | | - | - | - | - | - | - | - | - | - | - | - | - |
| 128x86x45 microtiter | | - | - | - | - | - | - | - | - | - | - | - | - |
| 128x86x22 cell culture | | - | - | - | - | - | - | - | - | - | - | - | - |