

A close-up photograph of the Ortoalresa Magnus 22 centrifuge. The image shows several black cylindrical rotors with white adjustment knobs. In the foreground, a rotor is labeled '1' and 'ortoalresa Ns 220759/05'. To the right, a row of four stainless steel tubes is visible, each engraved with 'ortoalresa Ns 220607/02'. The background shows more of the centrifuge's internal components, including red safety caps. A dark semi-transparent banner is overlaid on the right side of the image, containing the company logo and tagline.

**orto  
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About centrifugation

General applications | Series MAGNUS 22



# MAGNUS 22



As a floor standing equipment, Magnus 22 offers the maximum performance for your processes. Its design enables it to be installed in any space in the lab, avoiding the occupation of useful space. Its ergonomic design allows easy access to the rotor as well as traceability of the positioning to balance the load, and easy identification. 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 operations. The autonomy provided by this equipment facilitates the automation of work cycles and modes. This also ensures traceability of the process, not leaving any parameter uncontrolled.

It has a wide range of accessories for 750 ml. tubes, 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 applications.

## Features

- TFT color touch screen, visible from more than 3 m.:
- Shows RPM and RCF, time, acceleration/deceleration values (PCBS) and unbalance location system (ULS).
- 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.
- ULS: Unbalance location system indicating on the screen the number of the bucket which produces the unbalance switch off.
- Start delay: To program the time at which the cycle is to begin.
- Linked program: Permits the linking of up to 8 consecutive programmes 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

- 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.



|                                    |  |                                             |  |
|------------------------------------|--|---------------------------------------------|--|
| <b>Max. Capacity</b><br>4 x 750 ml |  | <b>Max. Speed</b><br>21.948 xg / 14.300 RPM |  |
| <b>Screen Type</b><br>TFT          |  | <b>Version</b><br>✓ Ventilated              |  |

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 by the user.
- Forced ventilation to reduce temperature increasing.
- Automatic disconnection for energy saving up to 8 h., with deactivation option.

## Versions

|        | <b>Dimensions<br/>(mm) (w x d x h)</b> |     |     |  | <b>Net Weight<br/>(Kg)</b> | <b>Voltage<br/>(V)</b> | <b>Frequency<br/>(Hz)</b> | <b>Consumption<br/>(W)</b> |
|--------|----------------------------------------|-----|-----|--|----------------------------|------------------------|---------------------------|----------------------------|
| CE 230 | 530                                    | 640 | 870 |  | 116                        | 220-230                | 50-60                     | 1020                       |
| CE 231 | 530                                    | 640 | 870 |  | 116                        | 110-120                | 50-60                     | 1020                       |

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





# MAGNUS 22 R



The refrigerated version of our floor standing equipment offers the maximum performance for your processes. Its design enables it to be installed in any space in the lab, avoiding the occupation of useful space. Its ergonomic design allows easy access to the rotor as well as traceability of the positioning to balance the load and easy identification.

With a wide range of accessories that offer capacities for tubes of 750 ml., microplates, microtubes and a great number of positions for the more common use tubes of 15 ml. conical, 50 ml. conical, 15 ml., 10 ml., and 5 ml. for clinical applications. It also has a specific rotor for blood bags and tubes extraction. Its powerful refrigeration system enables it to maintain the minimum temperature of the chamber below 4°C regardless of the type of rotor and the speed selected. This characteristic gives the user confidence in traceability during the centrifugation cycle.

## Features

- TFT color touch screen, visible from more than 3 m.:
- Shows RPM and RCF, time, temperature, acceleration/deceleration values (PCBS) and unbalance location system (ULS).
- 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.
- ULS: Unbalance location system indicating on the screen the number of the bucket which produces the unbalance switch off.
- Start delay: To program the time at which the cycle is to begin.
- Linked program: Permits the linking of up to 8 consecutive programmes 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

- 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.



|                                    |  |                                             |  |
|------------------------------------|--|---------------------------------------------|--|
| <b>Max. Capacity</b><br>4 x 750 ml |  | <b>Max. Speed</b><br>21.948 xg / 14.300 RPM |  |
| <b>Screen Type</b><br>TFT          |  | <b>Version</b><br>✓ Refrigerated            |  |

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 by the user.
- 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/1°F steps. Programmable in °C o °F.
- Temperature sensor inside the chamber.
- Gas R 449A HFO (CFC free).

## Versions

|        | <b>Dimensions<br/>(mm) (w x d x h)</b> |     |     |  | <b>Net Weight<br/>(Kg)</b> | <b>Voltage<br/>(V)</b> | <b>Frequency<br/>(Hz)</b> | <b>Consumption<br/>(W)</b> |
|--------|----------------------------------------|-----|-----|--|----------------------------|------------------------|---------------------------|----------------------------|
| CE 236 | 530                                    | 640 | 870 |  | 137                        | 220-230                | 50                        | 1450                       |
| CE 237 | 530                                    | 640 | 870 |  | 137                        | 110-120                | 60                        | 1450                       |

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

Accessories centrifuge Series Magnus 22  
- Rotors & adapters

|                                  |                     | <br>RT 279<br>(6) | <br>RT 278 | <br>RT 299 | <br>RT 277<br>(1) (4) | <br>RT 284<br>(4) | <br>RT 297<br>(4)(5) | <br>RT 283<br>(1)(2)(4)(5) |
|----------------------------------|---------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| ROTOR                            |                     | SWING OUT                                                                                          | 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.                                                                                              | 12/8/4 microtiter                                                                                    | 10/6/2/2 microtiter                                                                                     | 4 blood bags                                                                                                  |
| RPM Max.                         |                     | 3.800                                                                                              | 4.200                                                                                       | 2.500                                                                                        | 3.700                                                                                                    | 3.700                                                                                                | 4.500                                                                                                   | 3.700                                                                                                         |
| Radius (mm)                      |                     | 160                                                                                                | 202                                                                                         | 212                                                                                          | 204                                                                                                      | 182 (3)                                                                                              | 166                                                                                                     | 204                                                                                                           |
| RCF Max. (xg)                    |                     | 2.583                                                                                              | 3.984                                                                                       | 1.481                                                                                        | 3.122                                                                                                    | 2.786                                                                                                | 3.758                                                                                                   | 3.122                                                                                                         |
| Min. temp.<br>at max. speed (°C) |                     | 0                                                                                                  | 1                                                                                           | -5                                                                                           | 0                                                                                                        | -4                                                                                                   | 4                                                                                                       | 0                                                                                                             |
| SAMPLE VOLUME                    | Dim (mm)<br>approx. | ADAPTERS<br>Tubes    Ref.                                                                          | ADAPTERS<br>Tubes    Ref.                                                                   | ADAPTERS<br>Tubes    Ref.                                                                    | ADAPTERS<br>Tubes    Ref.                                                                                | ADAPTERS<br>Tubes    Ref.                                                                            | ADAPTERS<br>Tubes    Ref.                                                                               | ADAPTERS<br>Tubes    Ref.                                                                                     |
| 750 ml.                          | ø96 x 130           | -    -                                                                                             | -    -                                                                                      | -    -                                                                                       | 4    RE 434                                                                                              | -    -                                                                                               | -    -                                                                                                  | 4    RE 434                                                                                                   |
| 500 ml.                          | ø90 x 120           | -    -                                                                                             | -    -                                                                                      | -    -                                                                                       | 4    RE 310                                                                                              | -    -                                                                                               | -    -                                                                                                  | 4    RE 310                                                                                                   |
| 250 ml.                          | ø60 x 135           | -    -                                                                                             | 4    RE 449                                                                                 | 6    RE 530                                                                                  | 4    RE 330                                                                                              | -    -                                                                                               | -    -                                                                                                  | 4    RE 330                                                                                                   |
| 100 ml.                          | ø48 x 100           | -    -                                                                                             | 4    RE 327                                                                                 | 6    RE 558                                                                                  | 4    RE 409                                                                                              | -    -                                                                                               | -    -                                                                                                  | 4    RE 409                                                                                                   |
| 85 ml. (hs) / 80 ml. (hs)        | ø38 x 112           | -    -                                                                                             | 4    RE 498                                                                                 | 6    RE 559                                                                                  | 12    RE 500                                                                                             | -    -                                                                                               | -    -                                                                                                  | 12    RE 500                                                                                                  |
| 80 ml.                           | ø44 x 100           | -    -                                                                                             | 4    RE 422                                                                                 | 6    RE 560                                                                                  | 8    RE 352                                                                                              | -    -                                                                                               | -    -                                                                                                  | 8    RE 352                                                                                                   |
| 50 ml.                           | ø34 x 100           | -    -                                                                                             | 4    RE 334                                                                                 | 6    RE 561                                                                                  | 16    RE 317                                                                                             | -    -                                                                                               | -    -                                                                                                  | 16    RE 317                                                                                                  |
| 50 ml. conical                   | ø29 x 117           | -    -                                                                                             | 4    RE 340                                                                                 | 6    RE562                                                                                   | 20    RE 472                                                                                             | -    -                                                                                               | -    -                                                                                                  | 20    RE 472                                                                                                  |
| 30 ml. / 30 ml. (hs)             | ø25 x 98            | -    -                                                                                             | 12    RE 312                                                                                | 18    RE 563                                                                                 | 24    RE 322                                                                                             | -    -                                                                                               | -    -                                                                                                  | 24    RE 322                                                                                                  |
| 25 ml. conical                   | ø29 x 83            | -    -                                                                                             | 4    RE 612                                                                                 | 6    RE 616                                                                                  | 20    RE 614                                                                                             | -    -                                                                                               | -    -                                                                                                  | 20    RE 614                                                                                                  |
| 15 ml.                           | ø16 x 100           | -    -                                                                                             | 28    RE 376                                                                                | 42    RE 564                                                                                 | 80    RE 625                                                                                             | -    -                                                                                               | -    -                                                                                                  | 80    RE 625                                                                                                  |
| 15 ml. conical                   | ø17 x 122           | -    -                                                                                             | 20    RE 321                                                                                | 30    RE 565                                                                                 | 52    RE 347                                                                                             | -    -                                                                                               | -    -                                                                                                  | 52    RE 347                                                                                                  |
| 15 ml. blood sample              | ø16 x 132           | -    -                                                                                             | 28    RE 376                                                                                | -    -                                                                                       | 32    RE 441                                                                                             | -    -                                                                                               | -    -                                                                                                  | 32    RE 441                                                                                                  |
| 10 ml.                           | ø13 x 100           | 104    RE 309                                                                                      | 40    RE 343                                                                                | 60    RE 566                                                                                 | 100    RE 354                                                                                            | -    -                                                                                               | -    -                                                                                                  | 100    RE 354                                                                                                 |
| 10 ml. blood sample              | ø16 x 107           | -    -                                                                                             | 28    RE 376                                                                                | 42    RE 564                                                                                 | 80    RE 625                                                                                             | -    -                                                                                               | -    -                                                                                                  | 80    RE 625                                                                                                  |
| 7/10 ml. blood sample            | ø13 x 107           | 104    RE 309                                                                                      | 28    RE 324                                                                                | 42    RE 567                                                                                 | 92    RE 624                                                                                             | -    -                                                                                               | -    -                                                                                                  | 92    RE 624                                                                                                  |
| 5 ml.                            | ø13 x 75            | 104    -                                                                                           | 40    RE 343                                                                                | 60    RE 566                                                                                 | 100    RE 354                                                                                            | -    -                                                                                               | -    -                                                                                                  | 100    RE 354                                                                                                 |
| 5 ml. blood sample               | ø13 x 82            | 104    -                                                                                           | 28    RE 324                                                                                | 42    RE 567                                                                                 | 92    RE 624                                                                                             | -    -                                                                                               | -    -                                                                                                  | 92    RE 624                                                                                                  |
| 10 x 100 mm                      | ø10 x 100           | -    -                                                                                             | 52    RE 346                                                                                | 78    RE 568                                                                                 | 144    RE 315                                                                                            | -    -                                                                                               | -    -                                                                                                  | 144    RE 315                                                                                                 |
| Microtubes 1,5-2 ml.             | ø11x42              | -    -                                                                                             | 24    RE 440                                                                                | 36    RE 569                                                                                 | 72    RE 426                                                                                             | 144    RE 460                                                                                        | 72    RE 401                                                                                            | 72    RE 426                                                                                                  |
| Microtubes 0,5-0,6 ml.           | ø8x30               | -    -                                                                                             | 24    RE 523                                                                                | 36    RE 570                                                                                 | 72    RE 466                                                                                             | 144    RE 584                                                                                        | 72    RE 580                                                                                            | 72    RE 466                                                                                                  |
| Microtubes 0,2-0,4 ml.           | ø6x45               | -    -                                                                                             | 24    RE 458                                                                                | 36    RE 571                                                                                 | 72    RE 524                                                                                             | 144    RE 585                                                                                        | 72    RE 581                                                                                            | 72    RE 524                                                                                                  |
| Microtiter plates                | 128x86x15/21/45     | -    -                                                                                             | -    -                                                                                      | -    -                                                                                       | 12/8/4    RE 307                                                                                         | 12/8/4    -                                                                                          | 10/6/2    -                                                                                             | 12/8/4    RE 307                                                                                              |
| Microtiter plates (h:80 mm)      | 128x86x80           | -    -                                                                                             | -    -                                                                                      | -    -                                                                                       | -    -                                                                                                   | -    -                                                                                               | 2    -                                                                                                  | -    -                                                                                                        |

(1) This rotor can be supplied with hermetic lids (RE 356).

(2) This rotor can fit adapters for blood bags (RE 308).

(3) Medium radius on bucket.

(4) Allows different configurations depending on the microplates height.

(5) Only available for refrigerated models.

(6) Available **RT 301** for 104 x 7/10 ml. bs and 10 ml.

| HIGH SPEED                       |  |                                                                                               |  |                                                                                               |        |                                                                                               |        |                                                                                               |        |                                                                                               |        |
|----------------------------------|--|-----------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------|--------|
|                                  |  | <br>RT 280 |  | <br>RT 281 |        | <br>RT 282 |        | <br>RT 287 |        | <br>RT 292 |        |
| ROTOR                            |  | ANGLE FIXED 45 °                                                                              |  | ANGLE FIXED 45 °                                                                              |        | ANGLE FIXED 30 °                                                                              |        | ANGLE FIXED 45 °                                                                              |        | ANGLE FIXED 30 °                                                                              |        |
| Max. capacity                    |  | 8 x 50 ml.                                                                                    |  | 4 x 100 ml.                                                                                   |        | 4 x 250 ml.                                                                                   |        | 30 x 1,5-2 ml.                                                                                |        | 6 x 85 ml                                                                                     |        |
| RPM Max.                         |  | 6.000                                                                                         |  | 5.600                                                                                         |        | 4.700                                                                                         |        | 14.300                                                                                        |        | 9.000                                                                                         |        |
| Radius (mm)                      |  | 149                                                                                           |  | 138                                                                                           |        | 153                                                                                           |        | 96                                                                                            |        | 112                                                                                           |        |
| RCF Max. (xg)                    |  | 5.997                                                                                         |  | 4.838                                                                                         |        | 3.779                                                                                         |        | 21.948                                                                                        |        | 10.142                                                                                        |        |
| Min. temp.<br>at max. speed (°C) |  | 0                                                                                             |  | -1                                                                                            |        | -4                                                                                            |        | -1                                                                                            |        | 1                                                                                             |        |
| SAMPLE VOLUME                    |  | Dim (mm) approx.                                                                              |  | ADAPTERS<br>Tubes    Ref.                                                                     |        | ADAPTERS<br>Tubes    Ref.                                                                     |        | ADAPTERS<br>Tubes    Ref.                                                                     |        | ADAPTERS<br>Tubes    Ref.                                                                     |        |
| 750 ml.                          |  | ø96 x 130                                                                                     |  | -                                                                                             | -      | -                                                                                             | -      | -                                                                                             | -      | -                                                                                             | -      |
| 500 ml.                          |  | ø90 x 120                                                                                     |  | -                                                                                             | -      | -                                                                                             | -      | -                                                                                             | -      | -                                                                                             | -      |
| 250 ml.                          |  | ø60 x 135                                                                                     |  | -                                                                                             | -      | -                                                                                             | -      | 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 380 | 4                                                                                             | RE 498 | -                                                                                             | -      |
| 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 | -                                                                                             | -      |
| 50 ml. conical                   |  | ø29 x 117                                                                                     |  | 8                                                                                             | RE 375 | 4                                                                                             | RE 341 | 4                                                                                             | RE 340 | -                                                                                             | -      |
| 30 ml. / 30 ml. (hs)             |  | ø25 x 98                                                                                      |  | 8                                                                                             | RE 370 | 4                                                                                             | RE 332 | 12                                                                                            | RE 312 | -                                                                                             | -      |
| 25 ml. conical                   |  | ø29 x 83                                                                                      |  | 8                                                                                             | RE 599 | 4                                                                                             | RE 597 | 4                                                                                             | RE 612 | -                                                                                             | -      |
| 15 ml.                           |  | ø16 x 100                                                                                     |  | 8                                                                                             | RE 369 | 16                                                                                            | RE 316 | 28                                                                                            | RE 376 | -                                                                                             | -      |
| 15 ml. conical                   |  | ø17 x 122                                                                                     |  | 8                                                                                             | RE 369 | 4                                                                                             | RE 339 | 20                                                                                            | RE 321 | -                                                                                             | -      |
| 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 | -                                                                                             | -      |
| 10 ml. blood sample              |  | ø16 x 107                                                                                     |  | 8                                                                                             | RE 369 | 16                                                                                            | RE 316 | 28                                                                                            | RE 376 | -                                                                                             | -      |
| 7/10 ml. blood sample            |  | ø13 x 107                                                                                     |  | 8                                                                                             | RE 373 | 20                                                                                            | RE 320 | 28                                                                                            | RE 324 | -                                                                                             | -      |
| 5 ml.                            |  | ø13 x 75                                                                                      |  | 24                                                                                            | RE 366 | 20                                                                                            | RE 320 | 40                                                                                            | RE 343 | -                                                                                             | -      |
| 5 ml. blood sample               |  | ø13 x 82                                                                                      |  | 8                                                                                             | RE 373 | 20                                                                                            | RE 320 | 28                                                                                            | RE 324 | -                                                                                             | -      |
| 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                                                                                            | -      |
| Microtubes 0,5-0,6 ml.           |  | ø8x30                                                                                         |  | 24                                                                                            | RE 535 | 20                                                                                            | RE 519 | 24                                                                                            | RE 523 | 30                                                                                            | RE 428 |
| Microtubes 0,2-0,4 ml.           |  | ø6x45                                                                                         |  | 24                                                                                            | RE 526 | 20                                                                                            | RE 473 | 24                                                                                            | RE 458 | 30                                                                                            | RE 427 |
| Microtiter plates                |  | 128x86x15/21/45                                                                               |  | -                                                                                             | -      | -                                                                                             | -      | -                                                                                             | -      | -                                                                                             | -      |
| Microtiter plates (h:80 mm)      |  | 128x86x80                                                                                     |  | -                                                                                             | -      | -                                                                                             | -      | -                                                                                             | -      | -                                                                                             | -      |



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About centrifugation

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