

1 2 3 4 Mini-Centrifuge Sprout®

- Easy-to-use, dual start/stop functions-control starting and stopping with power button or by opening and closing the lid *Heathrow Scientific*
- Rubber footplate keeps unit stable and deadens vibrations
- Smooth, durable ABS finish is easy to clean

This compact mini-centrifuge is ideal for quick spin-downs from tube walls and caps. Use to microfilter cell separations and HPLC samples. Most spins last around 20 seconds, so Sprout is designed for easy repeat opening. Ergonomically designed lid allows one-handed use. Operation is extremely simple - load tubes, close lid, and press on/off button. For repeated spins, simply open/close lid to operate mini-centrifuge. As a safety feature, the motor will not operate if the lid is open. This personal centrifuge uses minimal benchtop space. Remove power supply lead for compact storage. Includes three rotors: two, glass-filled, polycarbonate, microtube rotors and one polycarbonate strip tube rotor. Unit is ETL, cETL, and CE marked.

- Sprout includes:
- Three interchangeable rotors to cover all applications. Sprout comes with the circular, one-size (1.5ml) tube rotor attached. Use the allen key included to easily switch to the strip tube rotor or circular, dual-size (1.5ml and 0.5ml) tube rotor.
 - Storage case: Safely store extra rotors and adapters when not in use. Padded foam case can be left on benchtop or stored in drawer.
- Keeps rotors safe while conveniently on hand.
- Tube rack: Move 2.0ml, 1.5ml, 0.5ml, 0.4ml, and 0.2ml microcentrifuge tubes from station to station. Keep tubes organized in hand-held foam rack.

| | |
|----------------------------|--|
| Specifications | |
| Maximum Speed: | 6000rpm |
| Maximum RCF: | 2000xg |
| Tubes Accommodated | |
| Circular, one-size rotor: | six 1.5- and 2.0ml tubes or use with adapters to spin six 0.4- and 0.5ml tubes |
| Circular, dual-size rotor: | three 0.4ml and 0.5ml tubes and three 1.5ml and 2.0ml tubes |
| Strip rotor: | two 8 x 0.2ml PCR tube strips or 16 x individual 0.2ml PCR tubes |
| Dimensions: | 153 x 128 x 104mm |

| Description | PK | Cat. No. |
|-------------------------|----|-----------|
| Mini-Centrifuge Sprout® | 1 | 9.945 800 |

We can supply this
manufacturer's
 whole
product range !



1 Mini Centrifuge MyFuge™ 12



Benchmark Scientific

Unlike traditional mini centrifuges, the new MyFuge 12 eliminates the need to change rotors when switching between microtubes and PCR strips. The included, unique COMBI-Rotor™ is all that is required for running 12 microtubes and 4 PCR strips simultaneously.

- COMBI-Rotor™, for tubes and strips
- Twice the capacity of traditional mini centrifuges
- Near silent operation
- Starts & stops with opening/closing of the lid

Specifications

| | |
|---------------------|--|
| Speed: | 5500rpm/2000xg |
| Capacity: | 12 x 1.5ml /2.0ml tubes 32 x 0.2 ml PCR tubes 4 x PCR strips (8 x 0.2ml) |
| Dimensions (WxDxH): | 140 x 200 x 112mm |
| Weight: | 5kg |
| Electrical: | 100 to 240V 50/60Hz |

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| Type | Description | PK | Cat. No. |
|------------|-------------------------------------|----|-----------|
| C1012E | Mini Centrifuge MyFuge™ 12, EU-plug | 1 | 9.943 600 |
| C1012 | Mini Centrifuge MyFuge™ 12, US-plug | 1 | 9.943 601 |
| C1008-A5-6 | Adapters, 0.5ml | 6 | 9.943 602 |
| C1008-A2-6 | Adapters, 0.2ml | 6 | 9.943 603 |

Mini Centrifuge Spectrafuge™ and Slide Spinner

Labnet

Spektrafuge™ Mini Centrifuge for tubes

- Ideal for quick spin downs and microfiltration
- For microcentrifuge tubes and strips
- convient on/off switch
- smoke grey lid

Slide Spinner for slides

- for quick drying of slides, e.g. microarray slides
- dries 2 slides in less than 10 seconds
- removeable cassettes conveniently catch all liquid (incl. in delivery)
- easy cleaning or changing of removable cassettes

Specifications

Spektrafuge Mini:

| | |
|----------------------|-----------------------------------|
| Maximum speed/RCF: | 6000rpm/850xg |
| Maximum capacity: | 2 x 0.2ml strips or 6 x 1.5/2.0ml |
| Dimensions (WxDxH): | 150 x 150 x 117mm |
| Weight: | 0.45kg |
| Supply requirements: | 230V 50Hz or 120V 60Hz |

Slide Spinner:

| | |
|--------------------|------------------------|
| Maximum speed/RCF | 4800rpm |
| Maximum capacity | 2 standard slides |
| Dimensions (WxDxH) | 150 x 150 x 117mm |
| Weight | 0.45kg |
| Electrical | 230V 50Hz or 120V 60Hz |

| Type | PK | Cat. No. |
|---|----|-----------|
| Mini centrifuge | 1 | 6.224 909 |
| Slide Spinner with 2 slide drying cassettes | 1 | 9.945 791 |
| Extra cassettes for Slide Spinner | 2 | 9.945 792 |

2



6.224 909

3



9.945 791

4 Centrifuge/vortexer, Combi-spin PCV-2400

Grant

Combined centrifuge/vortex mixer for microtubes and 0.2ml strips. For independent centrifuge and vortex mixing, or mixing of an individual tube concurrently with spinning of multiple tubes. The vortex cup, located at the top of the central shaft, emerges through an opening in the closed lid. In spin-mix-spin applications, the Combi-spin can be used with reagent volumes down to approximately 50µl.

- max RCF(bottom of tubes) g-force 700g
- interchangeable rotors for 2.0ml, 1.5ml, 0.5ml, 0.2ml microtube combinations and 0.2ml stripes.
- fixed speed: 2800rpm
- continuous operation or short spin

| Type | PK | Cat. No. |
|----------|----|-----------|
| PCV-2400 | 1 | 9.721 001 |

4



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1 Centrifuge Multi-spin PCV-3000

Combined centrifuge/vortex mixer for microtubes and 0.2ml strips. For independent centrifuge and vortex mixing operations, or a programmable sequence of spin and mix phases of multiple tubes.

Grant

- interchangeable rotors for 2.0ml, 1.5ml, 0.5ml, 0.2ml microtube combinations and 0.2ml strips.
- spin speed: 1000rpm to 3500rpm
- timed spin: 1 sec to 99 min
- vortex mixing speed: three stage adjustment
- timed vortex mixing: 1 to 20 sec
- max RCF(bottom of tubes) g-force 800g

| Type | PK | Cat. No. |
|----------|----|-----------|
| PCV-3000 | 1 | 9.721 005 |

Accessories for Centrifuges Combi-spin PCV- 2400 and Multi-spin PCV-3000

Grant

| Type | Description | PK | Cat. No. |
|-----------|---|----|-----------|
| PR2-05 | Rotor for 8 x 1.5/2.0ml plus 8 x 0.5ml tubes | 1 | 9.721 006 |
| PR2-05-02 | Rotor for 6 x 1.5/2.0ml plus 6 x 0.5ml plus 6 x 0.2ml tubes | 1 | 9.721 007 |
| PSR-16 | Rotor for 2 x 8-well 0.2ml microtube strips | 1 | 9.721 008 |

2

2 MiniSpin® and MiniSpin® Plus personal centrifuges

Eppendorf AG

Features:

- Extremely compact and small footprint
- Especially quiet due to its carefully balanced drive
- Maintenance-free motor
- Clear digital display
- Minimal sample heating (after 20min. at max. speed only 12°C max.)
- Separate short-spin button
- Automatic lid opening
- Integral power supply unit
- Capacity: 12 x 1.5/2ml containers
- Autoclaveable rotor (121°C, 20min.)
- Startup/slowdown time less than 13 secs. (to/from max. speed).

Additional features of MiniSpin®

- Includes standard anodised aluminium rotor
- Max. speed: 13400rpm, max. rcf: 12400 xg
- Timer can be set for up to 30 mins.

Additional features of MiniSpin® Plus

- Includes premium "Black Line" aluminium rotor
- Max. speed: 14500rpm, max. rcf: 14100 xg
- Speed/rcf display switch
- Timer can be set for up to 99 mins.
- Permanent centrifuging option

| Type | Dimensions (W x D x H) mm | Weight | Power | PK | Cat. No. |
|----------------|---------------------------------|--------|-------|----|-----------|
| | | kg | W | | |
| MiniSpin® | 225 x 240 x 120 | 4.3 | 70 | 1 | 9.776 500 |
| MiniSpin® plus | 225 x 240 x 120 | 4.3 | 85 | 1 | 9.776 501 |

1 Microlitre centrifuges Espresso

Thermo Scientific

Introducing Espresso - the personal microcentrifuge that takes productivity and ease-of-use to a whole new level. Compact and stylishly designed, the Espresso microcentrifuge lets you perform all your standard runs with a minimum of adjustments, and offers outstanding performance to handle a wide range of applications across pharmaceutical, biotechnology and academic research.

User friendly:

- Rotors and tubes are inserted and removed with minimal effort.
- A large LED display simplifies viewing of parameters
- Setting parameters is also fast and simple using a single knob-no need to bother with toggling arrow keys or imprecise analog controls
- Espresso is a snap to clean: its plastic rotor is fully autoclavable and non-corroding, and the unit features a brushless motor that offers years of maintenance-free operation

Maximum productivity:

- Espresso offers outstanding performance in a small, versatile package. Operating at 14.500 x g, it can hold 12 micro tubes from 0.5 to 2.0 mL and supports smaller volumes with adapters
- Espresso excels in a wide range of applications including nucleic acid purification, PCR cleanup, plasmid mini-prep, protein processing and forensics
- Its fast spin-up/spindown offers significant time savings that increases productivity

Compact and quiet:

- With its 76.5 square-inch footprint, Espresso delivers consistent results without taking center stage on your benchtop
- its exceptionally quiet so you can conduct your research all day long without distraction



| Type | Max. rcf x g | Max. speed rpm | Dimensions (W x D x H) mm | PK | Cat. No. |
|----------|--------------|----------------|---------------------------|----|-----------|
| Espresso | 14500 | 14600 | 250 x 200 x 150 | 1 | 9.945 115 |

Accessories for microcentrifuge Espresso



Thermo Scientific

| Description | PK | Cat. No. |
|------------------------|----|-----------|
| Adapter 0.5mm (D= 8mm) | 12 | 4.009 275 |
| Adapter 0.4mm (D= 6mm) | 12 | 4.009 276 |

2 Accessories for MiniSpin® and MiniSpin® Plus personal centrifuges

Eppendorf AG



| Type | PK | Cat. No. |
|--|----|-----------|
| Rotor F-55-16-5-PCR incl. lid | 1 | 9.776 521 |
| Lid, stainless steel for F-55-16-5-PCR | 1 | 9.776 522 |
| Adapter for 0.5ml microcentrifuge tubes and 0.6ml microtainers | 6 | 9.776 488 |
| Adapter for 0.4ml microcentrifuge tubes | 6 | 9.776 487 |
| Adapter for 0.2ml PCR-vessels | 6 | 9.776 504 |

1



1 Microcentrifuge Spectrafuge™ 24D

NEW!

Labnet

The Spectrafuge 24D combines innovations such as a unique, easy access rotor, exclusive multi-flow air cooling system and high performance drive with a digital microprocessor that precisely regulates operation. Parameters are selected with two "smart" knobs and values are shown on large, easy to read, LED displays. Speed can be set and displayed in rpm or g-force while runs may be timed, continuous or momentary.

The unique design of the 24-place rotor allows easy access to the tops of the tubes. An optional StripSpin™ adapter fits onto the rotor for spinning 0.2ml tubes and strips. A powerful, brushless motor quickly accelerates the rotor to set speed. Air enters the centrifuge through vents on the back of the housing and it is circulated in multiple directions to maximize cooling. The result is a cool running microcentrifuge that keeps samples close to ambient temperature, even during extended runs at maximum speed. For samples that require below ambient temperatures, the Spectrafuge 24D may be used in a cold room.

Specifications:

| | |
|--------------------------|--|
| Maximum speed/RCF: | 13.300rpm/16.300xg |
| Maximum capacity: | 24 x 1.5ml/2.0ml |
| Timer: | 1 to 30min or continuous "Quick" button for momentary operation |
| Ambient operating range: | 4°C to 35°C |
| Dimensions (WxDxH): | 235 x 293 x 216mm |
| Weight: | 8.1kg |
| Supply requirements: | 230V 50Hz or 120V 60Hz |

| Type | PK | Cat. No. |
|------------------|----|-----------|
| Spectrafuge™ 24D | 1 | 9.945 799 |

2



2 Microlitre centrifuge

Labnet

Microlitre centrifuge for microtubes up to 2.0ml.

Features:

- Brushless, induction motor
- Steplessly adjustable speed range: 1000rpm to 14000rpm rpm
- Timer pre-selection from 1 min. to 30 min. with "continuous run" facility
- "quick" pulse button for short time runs
- CE-marked
- Constructed to IEC 1010 requirements

Specifications

| | |
|------------------------|-------------------|
| Max. capacity: | 18 x 1.5/2.0ml |
| Max. speed: | 14000rpm |
| Max. rcf.: | 15996xg |
| Dimensions (W x H xD): | 200 x 180 x 220mm |
| Weight: | 4.5kg |

| Description | PK | Cat. No. |
|---|----|-----------|
| microlitre centrifuge complete with accessories | 1 | 9.945 721 |

We can supply this
manufacturer's
 whole
product range !



Microcentrifuge Prism/Prism R

NEW!

Labnet

Operation can be timed, continuous or momentary, using the "quick" button. Vibration free operation is ensured by an isolation system. In the event of a significant imbalance, operation of the centrifuge is automatically stopped. Deceleration at the end of a run is very quick, but will not disrupt samples. Supplied with a uniquely designed 24 x 1.5ml/2.0ml rotor that allows easy access to the tops of the sample tubes. Individual tube slots in the solid aluminum rotor support tubes along their length and contain the sample in the event of tube failure. The rotor is seated on a tapered shaft which facilitates easy removal for cleaning and autoclaving.

Adapters for smaller tubes and PCR strips - please order separately.

Specifications

| | |
|----------------------------|--|
| Speed range: | Prism/Prisma R 500 to 15.000rpm/500 to 13.500rpm |
| Max. RCF: | 21.200xg/17.135xg |
| Max. capacity: | 24 x 1.5/2.0ml |
| Timer: | 0.5 to 99 minutes or continuous "Quick" button for momentary operation |
| Temperatur range: | ---/-10 to 40°C |
| Dimensions (WxDxH): | 24 x 35 x 19cm/27.7 x 45 x 24.75cm |
| Weight: | 9.6kg/20kg |
| Power supply: | 230V, 50Hz or 120V, 60Hz |



9.945 795



9.945 793

| Description | PK | Cat. No. |
|---|----|--------------------|
| Prism ambient microcentrifuge with 24 place rotor | 1 | 9.945 795 1 |
| Prism R ambient microcentrifuge with 24 place rotor and cooling | 1 | 9.945 793 2 |
| StripSpin adapter for 0.2ml tubes and strips | 1 | 9.945 794 |
| Individual adapter for 0.5/0.6ml tubes | 6 | 9.945 796 |
| Individual adapter for 0.4/0.25ml tubes | 6 | 9.945 797 |
| Individual adapter for 0.2ml thermal cycling tubes | 6 | 9.945 798 |

3 Mini Plate Spinner MPS 1000

Labnet

- quickly spin down droplets and condensation
- use before and after thermal cycling to increase PCR yield
- accepts skirted, non-skirted and all standard PCR plates
- less than ¼ x the size of most plate centrifuges

Specifications

| | |
|-----------------------------|-------------------|
| Capacity: | 2 PCR Plates |
| Rotor Speed: | 2500rpm |
| Centifugal force: | 500xg |
| Rotor: | Fixed vertically |
| Dimensions (WxDxH): | 483 x 534 x 465mm |
| Weight: | 3kg |
| Supply requirements: | 230V 50/60Hz |



| Type | PK | Cat. No. |
|----------|----|-----------|
| MPS 1000 | 1 | 9.945 790 |



Separating, centrifuging/Microcentrifuges

1


1 Microcentrifuge 5418/5418 R

NEW!

Eppendorf AG

Microcentrifuge 5418

- 18 place rotor for 1.5/2.0ml tubes
- Lid opens automatically after spinning
- Very small profile, minimal bench space required
- Remarkably silent, even without rotor lid
- Standard, certified aerosol-tight rotor
- Convenient Eppendorf two-dial operation
- rpm/rcf converter
- Short-spin

Microcentrifuge 5418 R, with additional features:

- The patented compressor technology reduces vibration to a minimum
- Temperature range: 0°C to +40°C
- Low access height of 26cm
- Keeps a constant 4°C at max. speed
- Fast Temp for rapid pre-cooling of the centrifuge

Specifications
5418/5418 R

| | |
|-----------------------------|-------------------|
| Max. rcf: | 16 873xg |
| Max. speed: | 14 000rpm |
| Capacity: | 18 x 1.5/2.0ml |
| Warm-up time to max. speed: | 16s/11s |
| Slow-down from max. speed: | 18s/12s |
| Noise level: | <51dB(A)/<56dB(A) |
| Supply requirements: | 230V, 50/60Hz |

| Type | Description | Dimensions (W x D x H) mm | Weight kg | Power W | PK | Cat. No. |
|--------|--------------|---------------------------------|--------------|------------|----|-----------|
| 5418 | | 210 x 300 x 210 | 7.7 | 170 | 1 | 9.776 700 |
| 5418 R | with cooling | 300 x 460 x 250 | 22.0 | 320 | 1 | 9.776 702 |

2


2 Rotor for microcentrifuge 5418/5418 R

NEW!

Eppendorf AG

Includes aerosol-tight rotor cover. 18-place rotor.

| Type | PK | Cat. No. |
|---|----|-----------|
| Rotor F-45-18-11 incl. aerosoltight rotor lid | 1 | 9.776 705 |

3


3 Microcentrifuge 5424/5424 R

NEW!

Eppendorf AG

Microcentrifuge 5424

- 24-place-centrifuge
- aerosol tight rotors
- 4 different rotors
- very quiet in operation, even without rotor lid
- Choice of analogue dial or membrane keypad control
- adjustable soft ramp acceleration

Microcentrifuge R 5424, additional features:

- The patented compressor technology reduces vibration to a minimum
- Temperature range: -9°C to +40°C
- Small footprint and low access height of 26cm
- Keeps a constant 4°C at max. speed
- Fast Temp for rapid pre-cooling of the centrifuge, for example, from about 21°C to 4°C in 8 mins.

Specifications
5424/5424 R

| | |
|-----------------------------|---------------------|
| Max. rcf: | 20238 x g/21130 x g |
| Max. speed: | 14.680rpm/15.000rpm |
| Capacity: | 24 x 1.5/2ml |
| Warm-up time to max. speed: | 15 sec. |
| Slow-down from max. speed: | 16 sec. |
| Noise level: | 51 dB(A)/54 dB(A) |
| Supply requirements: | 230V 50/60Hz |

| Type | Description | Dimensions (W x D x H) mm | Weight kg | Power W | PK | Cat. No. |
|--------|---|---------------------------------|--------------|------------|----|-----------|
| 5424 | with control knobs, with rotor | 236 x 320 x 227 | 13.4 | 250 | 1 | 9.776 710 |
| 5424 | with foil keypad, with rotor | 236 x 320 x 227 | 13.4 | 250 | 1 | 9.776 711 |
| 5424 | with control knobs, without rotor | 236 x 320 x 227 | 13.4 | 250 | 1 | 9.776 712 |
| 5424 | with foil keypad, without rotor | 236 x 320 x 227 | 13.4 | 250 | 1 | 9.776 713 |
| 5424 R | with control knobs, with rotor, aerosol-tight | 290 x 480 x 260 | 21.0 | 350 | 1 | 9.776 762 |
| 5424 R | with foil keypad, with rotor, aerosol-tight | 290 x 480 x 260 | 21.0 | 350 | 1 | 9.776 760 |
| 5424 R | with control knobs, without rotor | 290 x 480 x 260 | 21.0 | 350 | 1 | 9.776 763 |
| 5424 R | with foil keypad, without rotor | 290 x 480 x 260 | 21.0 | 350 | 1 | 9.776 761 |

Rotors for Microcentrifuge 5424/5424 R

Including Rotor lid.

FA-45-24-11

Certified aerosol-tight rotor for 24 x 1.5ml /2.0ml microcentrifuge tubes comes standard (max. 20.238xg). Perfect for standard applications and centrifugation of biohazardous or radioactive samples. Aerosol-tight rotors are easily identified by a red lid screw.

FA-45-24-11-Special

Certified aerosol-tight rotor for 24 x 1.5ml /2.0ml tubes with special PTFE-coating for improved chemical resistance (e.g., when working with phenol or chloroform) and easy cleaning (max. 20.238xg). Aerosol-tight rotors are easily identified by a red lid screw.

F-45-18-11-Kit

Innovative 18-plate rotor for miniprep spin columns and 1.5/2.0 ml tubes. Designed with an extra high rim to support open tube lids during centrifugation, no more torn off lids (max. 18.111xg).

F-45-32-5-PCR

Rotor for 4 x 8-tube PCR strips or 32 x 0.2ml PCR tubes quickly knocks down liquids and properly supports thin-walled PCR tubes (max. 18.615 xg).



9.776 724

9.776 721

9.776 722

9.776 723

| Type | PK | Cat. No. |
|--|----|-----------|
| FA 45-24-11* | 1 | 9.776 724 |
| FA 45-24-11-Special** | 1 | 9.776 721 |
| F 45-18-11-Kit | 1 | 9.776 722 |
| F 45-32-5-PCR | 1 | 9.776 723 |
| Adapter for 0.2ml PCR tubes in fixed angle rotor | 6 | 9.776 504 |
| Adapter for 0.4ml PCR tubes in fixed angle rotor | 6 | 9.776 487 |
| Adapter for 0.5ml PCR tubes in fixed angle rotor/B-D-Microtainer | 6 | 9.776 488 |

* aerosol-tight

**aerosol-tight, PTFE-coated

5 Microcentrifuge 5430/5430 R

Microcentrifuge 5430

Eppendorf AG

- Choice of 8 different rotors, e.g. MTP rotor, Falcon rotor for max. versatility
- 30 place centrifuge for 1.5/2.0ml micro test tubes
- Unique 30.130xg
- Automatic rotor recognition
- Stores up to 50 routine programs
- Menu guided operation in 4 different languages
- Automatic lid opening following application sequence (only 5430)

Microcentrifuge 5430 R, additional features:

- Temp. range: -11 to +40°C
- +4°C at max. speed with all rotors
- Continues cooling after the centrifugation process
- Fast Temp for achieving required temperature in shortest possible time
- Fast Temp for having the centrifuge refrigerated and ready-for-use at your desired pre-set time

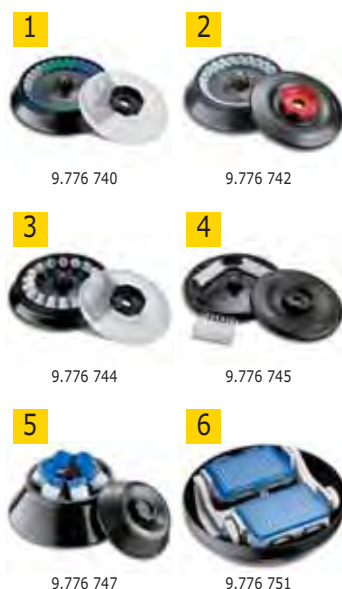


Specifications

5430/5430 R

| | |
|----------------------------------|----------------------------|
| Max. rcf: | 30130 xg |
| Max. speed: | 17500rpm |
| Capacity: | 30 x 1.5/2.0ml or 6 x 50ml |
| Acceleration time to max. speed: | <25 sec. |
| Braking period from max. speed: | <25 sec. |
| Noise level: | <67 dB(A)/<63 dB(A) |
| Supply requirements: | 230V, 50/60Hz |

| Type | Description | Dimensions (W x D x H) mm | Weight kg | Power W | PK | Cat. No. |
|--------|--|---------------------------------|--------------|------------|----|-----------|
| 5430 | without rotor, with membrane keypad | 330 x 420 x 250 | 29.0 | 475 | 1 | 9.776 731 |
| 5430 | without rotor, with dial setting | 330 x 420 x 250 | 29.0 | 475 | 1 | 9.776 732 |
| 5430 | with rotor FA-45-30-11 | 330 x 420 x 250 | 29.0 | 475 | 1 | 9.776 730 |
| 5430 | with rotor FA-45-30-11, with dial setting | 330 x 420 x 250 | 29.0 | 475 | 1 | 9.776 733 |
| 5430 R | without rotor, with membrane keypad | 380 x 640 x 300 | 56.0 | 1050 | 1 | 9.776 734 |
| 5430 R | without rotor, with dial setting | 380 x 640 x 300 | 56.0 | 1050 | 1 | 9.776 735 |
| 5430 R | with rotor FA-45-30-11, with membrane keypad | 380 x 640 x 300 | 56.0 | 1050 | 1 | 9.776 736 |
| 5430 R | with rotor FA-45-30-11, with dial setting | 380 x 640 x 300 | 56.0 | 1050 | 1 | 9.776 737 |



Rotors for microcentrifuge 5430/5430 R

Include rotor cover.

Eppendorf AG

FA-45-30-11

Standard rotor, 30 x tubes 1.5/2.0ml, max. 20817xg, speed 14000rpm

F-45-30-11

Fixed angle rotor, 30 x tubes 1.5/2.0ml, max. 20817xg, speed 14000rpm

FA-45-24-11-HS

High speed rotor, 24 x Eppendorf 1.5ml Safe-Lock tubes and 3810X tubes, max. 30130xg, speed 17500rpm

FA-45-24-11-Kit

Kit rotor 24 x spin columns, nucleic acid cleaning kits, tubes up to 2.0ml, max. 19090xg, speed 13200rpm

F-45-64-5-PCR

PCR strip rotor, 8 x 5/8 PCR strips or 64 x 0.2ml PCR tubes, max. 13543xg, speed 11800rpm

F-45-18-17-Cryo

CryoTube® rotor, 18 x CryoTubes® 1.0/2.0ml, max. 8320xg, speed 8900rpm

F-35-6-30

Falcon® rotor, 6 x 50ml or 6 x 15ml Falcon® tubes, max. 7197xg, speed 7830rpm

A-2-MTP

MTP rotor for PCR plates, CombiSlide adapter, max. loading height 29mm, max. 2204xg, speed 4680rpm

| Type | PK | Cat. No. |
|--------------------------------|----|--------------------|
| F-45-30-11* | 1 | 9.776 740 1 |
| FA-45-30-11** | 1 | 9.776 741 |
| FA-45-24-11-HS** | 1 | 9.776 742 2 |
| FA-45-24-11-Kit** | 1 | 9.776 743 |
| F-45-18-17-Cryo, incl. Adapter | 1 | 9.776 744 3 |
| F-45-64-5-PCR, incl. Adapter | 1 | 9.776 745 4 |
| F-35-6-30, incl. Adapter | 1 | 9.776 747 5 |
| A-2-MTP*** | 1 | 9.776 751 6 |

* PTFE-coated

**aerosol-tight, PTFE-coated

***incl. 2 MPT-supports



7 Microcentrifuge 5430/5430 R rotor accessories

Eppendorf AG

| Description | PK | Cat. No. |
|--|----|-----------|
| Adapter for F-45-64-5-PCR | 4 | 9.776 746 |
| Adapter for 1 x 15ml Falcon-type tubes | 10 | 9.776 750 |
| MPT spare supports | 2 | 9.776 752 |

We can supply this
 manufacturer's
 whole
 product range !



eppendorf

1 2 Refrigerated microlitre centrifuge Z 216 MK

NEW!

Hermle

The Z 216 MK refrigerated microcentrifuge sets a new standard in this centrifuge class. Capable of centrifuging up to 44 x 1.5/2.0ml, it features a versatile control panel allowing for storage of up to 99 runs. The powerful refrigeration system keeps samples at temperatures as low as 4°C during a continuous run at 20000xg.

Specifications:

- Maintenance-free induction drive
- Microprocessor with large LCD Display
- Motor driven lid lock
- Active imbalance-identification and -cut off
- Standstill cooling
- Audible signal at the end of each run
- Rapid acceleration and deceleration (see rotor data)
- Lowest sample temperature 4°C at 20000xg
- Noise level < 56 dBA at 20000xg
- Extremely compact with a space saving footprint
- Quick access to samples with a snap on lid
- Aerosol tight rotor option
- Manufactured according to international safety regulations, i.e. IEC 1010
- Distinct control panel

1



2



Technical data

| | |
|---------------|---|
| Max. speed: | 15000rpm |
| Max. RCF: | 21380xg |
| Max. Volume: | 44 x 1.5/2.0ml |
| Speed range: | 200 to 15000rpm |
| Running time: | 59 min 50 sec/10 sec increments 99 h 59 min/1 min increments |

| Description | Dimensions (W x D x H) mm | Weight kg | Rating W | PK | Cat. No. |
|---|---------------------------------|--------------|-------------|----|-----------|
| Refrigerated microlitre centrifuge Z 216 MK | 280 x 550 x 290 | 35 | 500 | 1 | 6.231 520 |
| Refrigerated microlitre centrifuge Z 216 MK incl. angle rotor | 280 x 550 x 290 | 35 | 500 | 1 | 6.230 074 |

3 4 Accessories for refrigerated Microlitre centrifuge Z 216 MK

NEW!

Hermle

| Description | PK | Cat. No. |
|---|----|-----------|
| Angle rotor 24 x 1.5/2.0ml | 1 | 9.945 715 |
| Angle rotor 24 x 1.5/2.0ml, hermetically sealed | 1 | 9.945 716 |
| Angle rotor 30 x 1.5/2.0ml, hermetically sealed | 1 | 9.945 717 |
| Adapter sets for 0.2 and 0.4ml reaction vessels | 6 | 6.225 371 |
| Adapter sets for 0.5ml reaction vessels | 6 | 6.225 372 |
| Angle rotor for 4 x 8 PCR Stripes | 1 | 9.945 718 |

3



4



1

1 2 Refrigerated high speed centrifuge Z 32 HK
NEW!
Hermle

With a wide range of accessories, the Z 32 HK high speed centrifuge is applicable in a wide variety of research settings. In spite of the remarkably small footprint, the Z 32 HK features a powerful refrigeration system capable of maintaining cool sample temperatures even at maximum speed.

Specifications:

- Maintenance-free induction drive
- Microprocessor with large LCD display
- Motor driven lid lock
- Automatic rotor identification system with over speed protection immediately upon rotor installation
- Active imbalance identification and cut off rotor specific
- Imbalance tolerant drive
- CFC-free refrigeration system
- A large variety of rotors and accessories
- Manufactured according to international safety regulations, i.e. IEC 1010
- Audible signal at the end of each run with several melody options
- Quick and easy rotor exchange
- Noise level under 60dBA at max. speed
- Distinct control panel

2

Technical data

| | |
|---------------|---|
| Max. speed: | 20000rpm |
| Max. RCF: | 38012 xg |
| Max. Volume: | 4 x 100ml |
| Speed range: | 200 to 20000rpm |
| Running time: | 59 min 50 sec./10 sec. increments 99 h 59 min/1 min increments |

| Description | Dimensions (W x D x H) mm | Weight kg | Rating W | PK | Cat. No. |
|--|---------------------------------|--------------|-------------|----|-----------|
| Refrigerated High Speed Centrifuge Z 32 HK | 400 x 700 x 360 | 71 | 1200 | 1 | 6.240 037 |

Accessories for refrigerated High Speed Centrifuge Z 32 HK
NEW!
Hermle

| Description | PK | Cat. No. |
|-------------------------------------|----|-----------|
| Angle rotor for max. 20 x 10ml | 1 | 9.945 915 |
| Angle rotor for max. 24 x 1.5/2.0ml | 1 | 9.945 916 |

For further accessories see Z 326/Z326K.

3

3 Microlitre centrifuge MIKRO 120
Hettich

Compact, powerful microlitre centrifuge that requires little space. With its 24-place rotor with aerosol-tight, phenol-resistant and autoclavable lid sedimentation is fast and safe. With microprocessor control, impulse key for short centrifuging, one-hand lid locking and lid holding. Easy entry of the parameters via foil keypad. Actual values are displayed during centrifugation.

Specifications

| | |
|----------------|-----------------|
| Max. rcf: | 18407xg |
| Max. speed: | 14000rpm |
| Max. capacity: | 24 x 0.2 to 2ml |

| Type | Description | Dimensions (W x D x H) mm | Weight kg | PK | Cat. No. |
|-----------|---------------|---------------------------------|--------------|----|-----------|
| MIKRO 120 | without rotor | 231 x 292 x 199 | approx. 7 | 1 | 9.943 116 |

4

4 Angle rotor for microlitre centrifuge MIKRO 120
NEW!
Hettich

With lid, bio-containment, autoclavable and phenol-resistant.

| Type | Description | PK | Cat. No. |
|------|---------------------|----|-----------|
| 1242 | for 24 x 1.5 to 2ml | 1 | 9.943 309 |

Additional accessories on request.

Microlitre centrifuges MIKRO 200/200 R

Refrigerated and non-refrigerated, high-performance microlitre centrifuges. Five exchangeable rotors are available. With frequency drive, microprocessor control with 4 programmable memories, impulse key for short centrifuging, powered lid locking and "open lid" key. Easy entry of the parameters via select keys and a twist knob. A switch key enables entry/display of rpm (speed) or rcf, as required. Actual values are displayed during centrifugation. The refrigerated MIKRO 200 R allows chamber temperature control between -10 to +40°C. With the Fast Cool function it refrigerates to +4°C in 10 to 15 minutes. The "stand-by" mode maintains the set temperature between runs.

Hettich

Specifications

Max. rcf: 21382xg
 Max. speed: 15000rpm
 Max. capacity: 30 x 0.2 to 2ml



9.943 117



9.943 118

| Type | Description | Dimensions (W x D x H) mm | Weight kg | PK | Cat. No. |
|-------------|-----------------------------|---------------------------|--------------|----|-----------|
| MIKRO 200 | without rotor | 275 x 344 x 260 | approx. 11.5 | 1 | 9.943 117 |
| MIKRO 200 R | refrigerated, without rotor | 281 x 547 x 260 | approx. 28 | 1 | 9.943 118 |

3 Accessories for microlitre centrifuges MIKRO 200/200 R

Hettich



| Type | Description | PK | Cat. No. |
|--------|--|----|-----------|
| 2427-A | Angle rotor for 30 x 0.2 to 2ml microtubes with standard lid | 1 | 9.943 464 |
| 2430-B | Angle rotor for 30 x 0.5ml microtubes with standard lid | 1 | 9.943 322 |
| 2426-B | Angle rotor for 20 x 1.8ml cryo tubes with standard lid | 1 | 9.943 323 |
| 2418-A | Angle rotor for 32 x 0.2ml or 4 x 8 PCR strips | 1 | 9.943 324 |
| 2425 | Lid with bio-containment, autoclavable, for angle rotors 2424-B, 2430-B, 2426-B, 2427-A | 1 | 9.943 342 |
| 2423 | Lid with bio-containment, autoclavable and phenol-resistant, for angle rotors 2424-B, 2430-B, 2426-B, 2427-A | 1 | 9.943 343 |

Additional accessories on request.





9.943 250

1 Microlitre centrifuges MIKRO 220/220 R

Microlitre centrifuges with outstanding performance characteristics. Model MIKRO 220 accommodates 9 alternative rotors, the refrigerated version MIKRO 220 R takes 13 alternative rotors. The MIKRO 220/220 R feature frequency drive, microprocessor control and impulse key for short period centrifuging. Extremely short acceleration and deceleration times, easy entry of the parameters via a foil keypad and digital display. As necessary, a switch key enables entry/display of rpm (speed) or rcf. 10 complete running programmes can be stored and recalled. The refrigerated MIKRO 220 R can control chamber temperature between -20 and +40°C.

Specifications

| | |
|----------------|--------------------------------|
| Max. rcf: | 31514xg |
| Max. speed: | 18000rpm |
| Max. capacity: | 60 x 0.2 to 2ml or 6 x 50ml |



9.943 251

| Type | Description | Dimensions (W x D x H) mm | Weight kg | PK | Cat. No. |
|-------------|-----------------------------|---------------------------|------------|----|-------------|
| MIKRO 220 | without rotor | 330 x 420 x 313 | approx. 23 | 1 | 9.943 250 1 |
| MIKRO 220 R | refrigerated, without rotor | 330 x 650 x 313 | approx. 42 | 1 | 9.943 251 2 |



3 Accessories for microlitre centrifuges MIKRO 220/220 R

Hettich

| Type | Description | PK | Cat. No. |
|--------|--|----|-----------|
| 2218 | Angle rotor for 12 x 0.2 to 2ml microtubes with lid | 1 | 9.943 461 |
| 1195-A | Angle rotor for 24 x 0.2 to 2ml microtubes with bio-containment lid | 1 | 9.943 327 |
| 1189-A | Angle rotor for 30 x 0.2 to 2ml microtubes with bio-containment lid | 1 | 9.943 328 |
| 1158-L | Angle rotor, 2-row for 48 x 0.2 to 2ml microtubes with bio-containment lid | 1 | 9.943 329 |
| 2219-A | Angle rotor for 20 x 1.8ml cryo tubes with standard lid | 1 | 9.943 462 |
| 1161 | Drum rotor for 60 x 0.2 to 2ml microtubes with lid, without adapters | 1 | 9.943 330 |
| 1154-L | Swing-out rotor for 24 x 0.2 to 2ml microtubes with lid | 1 | 9.943 331 |
| 1160 | Angle rotor for 48 x 0.2ml microtubes or 6 x 8 PCR strips | 1 | 9.943 332 |
| 1023 | Hematocrit rotor for 24 capillaries with lid as evaluation disk | 1 | 9.943 333 |

Additional accessories on request.



4 Special-purpose centrifuge HAEMATOKRIT 210

Fast and reliable benchtop centrifuge for accommodating 24 haematocrit capillaries per run. With microprocessor control, convenient twist lock, lid locking and holding, rotor imbalance cut-out and stop indication. Easy entry of speed and running time using the foil keypad. Display of the actual values during centrifugation.

Specifications

| | |
|----------------|----------------------------|
| Max. rcf: | 16060xg |
| Max. speed: | 13000rpm |
| Max. capacity: | 24 haematocrit capillaries |

| Type | Description | Dimensions (W x D x H) mm | Weight kg | PK | Cat. No. |
|-----------------|---------------|---------------------------|------------|----|-----------|
| HAEMATOKRIT 210 | without rotor | 275 x 330 x 247 | approx. 10 | 1 | 9.943 131 |

1 Rotor for benchtop centrifuge HAEMATOKRIT 210

Hettich



| Type | Description | PK | Cat. No. |
|------|--|----|-----------|
| 2076 | Haematocrit rotor for 24 capillaries with lid as evaluation disk | 1 | 9.943 466 |

Accessories for benchtop centrifuges ROTINA 420/420 R

Hettich

| Type | Description | PK | Cat. No. |
|--------|---|----|-----------|
| 4723 | Swing-out rotor for max. 4 x 600ml or 16 microtitre plates without carriers | 1 | 9.943 431 |
| 4750 | Round carrier 600ml for swing-out rotor 4723 | 1 | 9.943 356 |
| 4751 | Bio-containment lid for round carrier 4750 | 1 | 9.943 357 |
| 4769 | Adapter for 13 x 15ml tubes for round carrier 4750 | 1 | 9.943 455 |
| 4770 | Adapter for 5 x 50ml tubes for round carrier 4750 | 1 | 9.943 456 |
| 4752 | Carrier for max. 4 microtitre plates for swing-out rotor 4723 | 1 | 9.943 358 |
| 4753 | Swing-out rotor for max. 4 x 250ml without carriers | 1 | 9.943 432 |
| 5092 | Round carrier for max. 250ml for swing-out rotor 4753 | 1 | 9.943 359 |
| 5093 | Lid with bio-containment for round carrier 5092 | 1 | 9.943 361 |
| 5051 | Rectangular carrier for max. 100ml for swing-out rotor 4753 | 1 | 9.943 458 |
| 4754 | Swing-out rotor for max. 4 x 100ml without carriers | 1 | 9.943 433 |
| 1430 | Round carrier for max. 100ml for swing-out rotor 4754 | 1 | 9.943 353 |
| 1382 | Lid for round carrier 1430 | 1 | 9.943 341 |
| 4758 | Swing-out rotor for max. 8 x 50ml without carriers | 1 | 9.943 434 |
| 4790-A | Angle rotor for 30 x 0.2 to 2ml microtubes with bio-containment lid | 1 | 9.943 435 |
| 4760 | Angle rotor for 48 x 0.2ml or 6 x 8 PCR strips | 1 | 9.943 436 |
| 4795 | Angle rotor for max. 4 x 250ml | 1 | 9.943 437 |
| 4794 | Angle rotor for max. 6 x 94ml with bio-containment lid | 1 | 9.943 438 |

Additional accessories available on request.

2 Compact centrifuge Z 206 A

Compact centrifuge for physicians and clinical laboratories.

Hermle

The Z 206 A accepts up to 12 x 15ml conical and round bottom tubes. For tubes with smaller dimensions we offer several adapters. For larger volumes we offer an angle rotor for 6 x 50ml conical and round bottom tubes.

Specifications:

- Microprocessor with LCD display
- Electrical lid lock
- Pre-selection of the rotor type
- Active imbalance-identification and -cut off
- Manufactured according to international safety regulations
- Noise level under 60dBA at max. speed
- A large variety of rotors and accessoires
- Easy change of rotors
- Distinct control panel

Technical Data

| | |
|-------------------------|--------------------|
| Max. volume: | 12 x 15ml/6 x 50ml |
| Max. speed: | 6000rpm |
| Max. RCF: | 4180xg |
| Dimensions (W x H x D): | 28 x 26 x 37cm |
| Weight: | 15kg |

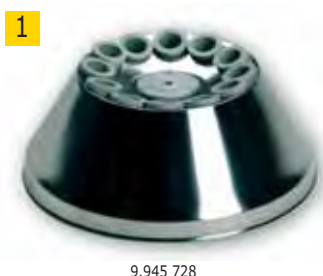


| Description | Dimensions (W x D x H) mm | Weight kg | Rating W | PK | Cat. No. |
|--|---------------------------|-----------|----------|----|-----------|
| Compact centrifuge Z 206 A | 280 x 370 x 260 | 15 | 100 | 1 | 9.945 737 |
| Compact centrifuge Z 206 A incl. angle rotor 12x15ml | 280 x 370 x 260 | 15 | 100 | 1 | 9.945 738 |

Accessories for compact centrifuge Z 206 A

Hermle

| Description | PK | Cat. No. |
|----------------------------|----|--------------------|
| Angle rotor 12 x 15ml | 1 | 9.945 728 1 |
| Angle rotor 6 x 50ml | 1 | 9.945 729 2 |
| Angle rotor 18 x 1.5/2.0ml | 1 | 9.945 739 3 |
| Swing out rotor 6 x 5ml | 1 | 9.945 740 4 |



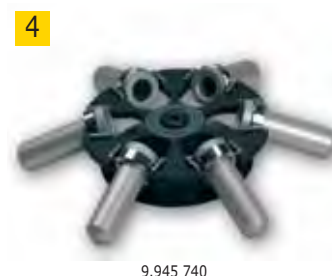
9.945 728



9.945 729



9.945 739



9.945 740



6.241 114



6.238 613

Universal centrifuges Z 326/Z 326 K

NEW!

Universal laboratory centrifuge for medical laboratory, from the large volume (4 x 100ml) to reaction vessels.

Hermle

Both the table top centrifuge Z 326 and the refrigerated table top centrifuge Z 326 K offer a wide assortment of rotor options, making them ideal for a wide variety of research applications. Rotor exchange between swing out, micro, or high volume angled rotors is very simple and can take place in a matter of seconds. The Z 326 K includes the refrigeration system on the back side of the unit, optimised for the lab bench at only 40cm wide.

Specifications:

- Maintenance-free induction drive
- Microprocessor with large LCD display
- Motor driven lid lock
- Automatic rotor identification system with over speed protection, immediately upon rotor insertion
- Active imbalance-identification and -cut off (rotor specific)
- Imbalance tolerant drive
- CFC free refrigeration system (Z 326 K)
- A large variety of rotors and accessories
- Manufactured according to international safety regulations, i.e. IEC 1010
- Audible signal at the end of each run with several melody options
- Rotor exchange is easy to handle
- Noise level under 60dBA at max. speed
- Optimized airflow system keeps the samples cool (Z 326)
- Distinct control panel

Technical data

| | |
|---------------|---|
| Max. speed: | 18000rpm |
| Max. RCF: | 23545xg |
| Max. volume: | 4 x 100ml |
| Speed range: | 200 to 18000rpm |
| Running time: | 59 min 50 sec/10 sec increments 99 h 59 min/1 min increments |

| Description | Dimensions (W x D x H) mm | Weight kg | Rating W | PK | Cat. No. |
|-------------------------------|---------------------------|-----------|----------|----|--------------------|
| Universal centrifuges Z 326 | 400 x 480 x 360 | 43 | 230 | 1 | 6.241 114 5 |
| Universal centrifuges Z 326 K | 400 x 700 x 360 | 60 | 230 | 1 | 6.238 613 6 |



Accessories for Universal Centrifuges Z 326/Z 326 K

NEW!

Hermle

| Description | PK | Cat. No. |
|--|----|--------------------|
| Swing out Rotor, 4 place | 1 | 6.238 614 1 |
| Bucket 1 x 100ml | 2 | 9.945 750 |
| Bucket 1 x 50ml Falcon | 2 | 9.945 752 |
| Bucket 2 x 15ml Falcon | 2 | 9.945 753 |
| Bucket 10 x 1.5ml | 2 | 9.945 771 |
| Swing out Rotor, 4 place | 1 | 6.241 887 2 |
| Bucket 2 x 50ml Falcon | 2 | 9.945 772 |
| Bucket 3 x 15ml Falcon | 2 | 9.945 773 |
| Bucket hermetic for tube racks | 2 | 6.241 888 |
| Tube racks 1 x 100ml | 2 | 6.240 595 |
| Tube racks 1 x 50ml Falcon | 2 | 6.902 309 |
| Tube racks 2 x 15ml Falcon | 2 | 6.902 310 |
| Tube racks 7 x 5 to 7ml | 2 | 9.945 903 |
| Tube racks 5 x 1.5ml | 2 | 6.902 308 |
| Swing out rotor 2 x 3 Microtiterplates | 1 | 9.945 910 3 |
| Angle rotor for max. 12 x 15ml | 1 | 9.945 912 |
| Angle rotor for max. 6 x 50ml | 1 | 9.945 913 |
| Angle rotor for max. 6 x 85ml | 1 | 6.240 038 |
| Angle rotor for max. 24 x 1.5/2.0ml | 1 | 6.238 615 4 |
| Angle rotor for 4 x 8 PCR Stripes | 1 | 9.945 919 |



6.238 614



6.241 887



9.945 910



6.238 615

Benchtop centrifuges EBA 20/EBA 20 S

The practical and handy EBA 20 and EBA 20S are supplied with an 8-place angle rotor. Designed for small sample throughput, they are ideal for use in doctors' surgeries or in large laboratories as auxiliary equipment. With microprocessor control, impulse key for short centrifuging, one-hand lid locking and lid holding. Easy entry of the parameters time and speed (rpm) via foil keypad. Actual values are displayed during centrifugation. Various tubes (incl. glass tubes) can be centrifuged without an adapter. Adapters for additional blood collection tubes are available on request. Model EBA 20 S is supplied with adapters for 13 x 75mm Vacutainers (1.6ml to 5ml).

Hettich

Specifications

| | |
|----------------|----------|
| Max. rcf: | |
| EBA 20: | 3461xg |
| EBA 20 S: | 6153xg |
| Max. speed: | |
| EBA 20: | 6000rpm |
| EBA 20 S: | 8000rpm |
| Max. capacity: | 8 x 15ml |



9.943 110



9.943 463

| Type | Description | Dimensions (W x D x H) mm | Weight kg | PK | Cat. No. |
|----------|------------------|---------------------------|-----------|----|--------------------|
| EBA 20 | with angle rotor | 231 x 292 x 216 | approx. 4 | 1 | 9.943 110 5 |
| EBA 20 S | with angle rotor | 231 x 292 x 216 | approx. 6 | 1 | 9.943 463 6 |



1 Benchtop centrifuge EBA 21

Compact, versatile and powerful benchtop centrifuge. With microprocessor control, impulse key for short centrifuging, convenient twist-lock lid closure, lid holding device and 3 programmable memories. Easy entry of the parameters via foil keypad. Actual values are displayed during centrifugation.

Hettich

Specifications

Max. rcf: 25718xg
 Max. speed: 18000rpm
 Max. capacity: 6 x 50ml

| Type | Description | Dimensions (W x D x H) mm | Weight kg | PK | Cat. No. |
|--------|---------------|---------------------------|------------|----|-----------|
| EBA 21 | without rotor | 275 x 330 x 247 | approx. 11 | 1 | 9.943 112 |



2 Accessories for benchtop centrifuge EBA 21

Hettich

| Type | Description | PK | Cat. No. |
|--------|--|----|-----------|
| 1022 | Angle rotor for 12 x 0.2 to 2ml microtubes with lid | 1 | 9.943 457 |
| 1089-A | Angle rotor for 30 x 0.2 to 2ml microtubes with lid with bio-containment | 1 | 9.943 376 |
| 1416 | Angle rotor for max. 12 x 15ml | 1 | 9.943 377 |
| 1116 | Angle rotor for max. 6 x 50ml | 1 | 9.943 378 |
| 1118 | Angle rotor for 12 x 5ml or 12 x 7ml with decanting aid | 1 | 9.943 379 |
| 1126 | Swing-out rotor for max. 12 x 5ml without carriers | 1 | 9.943 380 |
| 1127 | Carrier for swing-out rotor 1126 for 1 x 1.6 to 5ml | 1 | 9.943 348 |
| 1120 | Swing-out rotor for max. 8 x 10ml without carriers | 1 | 9.943 382 |
| 1131 | Carrier for swing-out rotor 1120 for 1 x 1.6 to 6ml | 1 | 9.943 346 |
| 1132 | Carrier for swing-out rotor 1120 for 1 x 4 to 10ml | 1 | 9.943 347 |
| 1114 | Swing-out rotor for max. 8 x 10ml without carriers | 1 | 9.943 383 |
| 1122 | Carrier for swing-out rotor 1114 for 1 x 4 to 10ml | 1 | 9.943 349 |
| 1115 | Swing-out rotor for max. 6 x 15ml without carriers | 1 | 9.943 384 |
| 1123 | Carrier for swing-out rotor 1115 for 1 x 1.1 to 1ml | 1 | 9.943 345 |
| 1450 | Haematocrit rotor for 24 capillaries with lid as evaluation disk | 1 | 9.943 385 |
| 1024-A | Angle rotor for 24 x 0.2 to 2ml microtubes with lid* | 1 | 9.943 460 |

*Aerosol-tight, autoclavable and phenol-resistant lid for this rotor, available on request. Additional accessories on request.



3 Benchtop centrifuge ROTOFIX 32 A

Microprocessor-controlled benchtop centrifuge with a comprehensive and versatile range of accessories. 11 exchangeable rotors enable a multitude of applications. With frequency drive, impulse key for short period centrifuging, lid locking and holding. An "rcf" key allows display of the rcf during operation, while the key is pressed. Easy entry of rpm (speed) and time via foil keypad. Actual values are displayed during centrifugation.

Hettich

Specifications

Max. rcf: 4226xg
 Max. speed: 6000rpm
 Max. capacity: 4 x 100ml/32 x 15ml

| Type | Description | Dimensions (W x D x H) mm | Weight kg | PK | Cat. No. |
|--------------|---------------|---------------------------|------------|----|-----------|
| ROTOFIX 32 A | without rotor | 366 x 430 x 257 | approx. 23 | 1 | 9.943 119 |

Accessories for benchtop centrifuge ROTOFIX 32 A

Hettich

| Type | Description | PK | Cat. No. |
|--------|--|----|-----------|
| 1624 | Swing-out rotor for max. 4 x 100ml or 4 slide preparations, without carriers | 1 | 9.943 386 |
| 1324 | Swing-out rotor for max. 4 x 100ml without carriers | 1 | 9.943 387 |
| 1381 | Round carrier 100ml fitting into swing-out rotor 1624 | 1 | 9.943 340 |
| 1390 | Round carrier 100ml fitting into swing-out rotor 1324 | 1 | 9.943 350 |
| 1398 | Round carrier 50ml fitting into swing-out rotor 1324 | 1 | 9.943 351 |
| 1382 | Lid for round carriers 1381 and 1390 | 1 | 9.943 341 |
| 1611 | Swing-out rotor for max. 8 x 15ml without carriers | 1 | 9.943 388 |
| 1628 | Swing-out rotor for max. 12 x 15ml without carriers | 1 | 9.943 389 |
| 1619 | Swing-out rotor for 6 x 15ml or 6 x 50ml conical tubes with screw cap | 1 | 9.943 392 |
| 1617 | Swing-out rotor for 8 x 15ml or 8 x 50ml conical tubes with screw cap | 1 | 9.943 393 |
| 1418 | Angle rotor for 8 x 50ml or 32 x 15ml without carriers | 1 | 9.943 394 |
| 1613 | Angle rotor for max. 12 x 15ml | 1 | 9.943 395 |
| 1620 A | Angle rotor for max. 6 x 85ml | 1 | 9.943 396 |
| 1626 | Cyto rotor for 6 slide preparations without carriers | 1 | 9.943 397 |
| 1648 | Cyto rotor for 8 slide preparations with carriers | 1 | 9.943 398 |

Additional accessories on request.

1 Benchtop centrifuges UNIVERSAL 320/320 R

The UNIVERSAL 320/320 R impress with excellent performance in both the high and low speed ranges, and versatile, easily exchangeable accessories. At low speeds, they process standard tubes up to a volume of 100ml, microtitre plates, conical tubes with screw cap, blood collection tubes and cyto accessories. Microlitre tubes can be accelerated to an rcf of 21382. A selection of 19 rotors is available for the UNIVERSAL 320/320 R centrifuges. With frequency drive, microprocessor control, impulse key for short centrifuging, quick-entry foil keypad and digital display. As necessary, a switch key enables entry/display of rpm (speed) or rcf. Ten complete running programmes can be stored and recalled. Temperature in the refrigerated UNIVERSAL 320 R is adjustable within a range of -20 to +40°C.

Hettich



Specifications

| | |
|----------------|---------------------|
| Max. rcf: | 21382xg |
| Max. speed: | 15000rpm |
| Max. capacity: | 4 x 100ml/32 x 15ml |

| Type | Description | Dimensions (W x D x H) mm | Weight kg | PK | Cat. No. |
|-----------------|-----------------------------------|---------------------------------|--------------|----|-----------|
| UNIVERSAL 320 | without rotor | 395 x 520 x 346 | approx. 31 | 1 | 9.943 120 |
| UNIVERSAL 320 R | without rotor, with refrigeration | 401 x 695 x 346 | approx. 53 | 1 | 9.943 121 |

Accessories for benchtop centrifuges UNIVERSAL 320/320 R

Hettich

| Type | Description | PK | Cat. No. |
|--------|--|----|-----------|
| 1494 | Swing-out rotor for max. 4 x 100ml without carriers | 1 | 9.943 399 |
| 1624 | Swing-out rotor for max. 4 x 100ml or 4 slide preparations without carriers | 1 | 9.943 386 |
| 1324 | Swing-out rotor for max. 4 x 100ml without carriers | 1 | 9.943 387 |
| 1425 | Round carrier 100ml for swing-out rotor 1494 | 1 | 9.943 352 |
| 1430 | Round carrier 100ml for swing-out rotor 1494, can be closed with lid 1382 | 1 | 9.943 353 |
| 1381 | Round carrier 100ml for swing-out rotor 1624 | 1 | 9.943 340 |
| 1390 | Round carrier 100ml for swing-out rotor 1324 | 1 | 9.943 350 |
| 1398 | Round carrier 50ml for swing-out rotor 1324 | 1 | 9.943 351 |
| 1382 | Lid for round carriers 1430, 1381 and 1390 | 1 | 9.943 341 |
| 1619 | Swing-out rotor for 6 x 15ml or 6 x 50ml conical tubes with screw cap | 1 | 9.943 392 |
| 1617 | Swing-out rotor for 8 x 15ml or 8 x 50ml conical tubes with screw cap | 1 | 9.943 393 |
| 1628 | Swing-out rotor for max. 12 x 15ml without carriers | 1 | 9.943 389 |
| 1611 | Swing-out rotor for max. 8 x 15ml without carriers | 1 | 9.943 388 |
| 1460 | Swing-out rotor 2-place for max. 10 microtitre plates without carriers | 1 | 9.943 400 |
| 1453-A | Carrier for plates fitting into swing-out rotor 1460 | 1 | 9.943 354 |
| 1645 | Swing-out rotor 4-place for max. 4 microtitre plates without carriers | 1 | 9.943 401 |
| 4345 | Carrier for plates fitting into swing-out rotor 1645 | 1 | 6.083 811 |
| 1612 | Angle rotor for 12 x 0.2 to 2ml with lid | 1 | 9.943 413 |
| 1420-B | Angle rotor for 24 x 0.2 to 2ml with lid | 1 | 9.943 414 |
| 2425 | Lid with bio-containment, autoclavable, for angle rotor 1420-B | 1 | 9.943 342 |
| 2423 | Lid with bio-containment, autoclavable and phenol-resistant for angle rotor 1420-B | 1 | 9.943 343 |
| 1689-A | Angle rotor for 30 x 0.2 - 2ml with lid with bio-containment | 1 | 9.943 417 |
| 1620-A | Angle rotor for max. 6 x 85ml | 1 | 9.943 396 |
| 1418 | Angle rotor for 8 x 50ml or 32 x 15ml without carriers | 1 | 9.943 394 |
| 1613 | Angle rotor for max. 12 x 15ml, max. 4146 rcf | 1 | 9.943 395 |
| 1615 | Angle rotor for max. 12 x 15ml, max. 16582 rcf | 1 | 9.943 415 |
| 1650 | Haematocrit rotor for 24 capillaries with lid as evaluation disk | 1 | 9.943 416 |
| 1626 | Cyto rotor for 6 slide preparations without carriers | 1 | 9.943 397 |
| 1648 | Cyto rotor for 8 slide preparations with carriers | 1 | 9.943 398 |

Additional accessories available on request.



9.943 129

Benchtop centrifuges ROTINA 380/380 R

High-performance, benchtop centrifuges with a comprehensive range of accessories especially for applications in the fields of diagnostics, genetics and microbiology. Both models offer a choice of 11 rotors. With frequency drive, microprocessor control, impulse key for short centrifuging and powered lid locking. The advanced C control panel significantly facilitates daily laboratory routine. Parameter selection is done via the use of symbol keys. Values are set with the control knob, and recorded by pressing the Start key. Digital display. As necessary, a switch key enables entry/display of rpm (speed) or rcf. With 98 programmable memories. Temperature within the chamber of the refrigerated ROTINA 380 R is controllable within a range of -20 to +40°C. The temperature can also be set in degrees Fahrenheit.

Hettich

Specifications:

| | |
|----------------|-----------|
| Max. rcf: | 24400xg |
| Max. speed: | 15000rpm |
| Max. capacity: | 4 x 290ml |



9.943 130

| Type | Description | Dimensions (W x D x H) mm | Weight kg | PK | Cat. No. |
|--------------|-----------------------------------|---------------------------|------------|----|-------------|
| ROTINA 380 | without rotor | 457 x 600 x 418 | approx. 51 | 1 | 9.943 129 1 |
| ROTINA 380 R | without rotor, with refrigeration | 457 x 750 x 418 | approx. 81 | 1 | 9.943 130 2 |

Accessories for benchtop centrifuges ROTINA 380/380 R

Hettich

| Type | Description | PK | Cat. No. |
|--------|--|----|-----------|
| 1754 | Swing-out rotor for max. 4 x 290ml without carriers | 1 | 9.943 467 |
| 1752 | Round carrier 290ml for swing-out rotor 1754 | 1 | 9.943 468 |
| 1751 | Lid with bio-containment for round carrier 1752 | 1 | 9.943 469 |
| 1798-A | Swing-out rotor for max. 4 x 250ml without carriers | 1 | 9.943 419 |
| 1726 | Swing-out rotor for max. 6 x 50ml without carriers | 1 | 9.943 420 |
| 1717 | Swing-out rotor for 10 x 1ml or 10 x 50ml conical tubes with screw cap | 1 | 9.943 421 |
| 1760 | Swing-out rotor 2-place for max. 10 microtitre plates without carriers | 1 | 9.943 423 |
| 1753-A | Carrier for plates for swing-out rotor 1760 | 1 | 9.943 355 |
| 1720 | Angle rotor for max. 6 x 85ml | 1 | 9.943 426 |
| 1792 | Angle rotor for max. 6 x 94ml with lid with bio-containment | 1 | 9.943 427 |
| 1789-A | Angle rotor for 30 x 0.2 to 2ml with lid with bio-containment | 1 | 9.943 428 |
| 1711 | Drum rotor for max. 60 x 0.2 to 2ml without adapters | 1 | 9.943 429 |
| 1748 | Cyto rotor for 8 slide preparations without carriers | 1 | 9.943 430 |
| 1721 | Cyto rotor for 8 x 50ml or 32 x 15ml without carriers | 1 | 9.943 470 |

Additional accessories on request.



3 Benchtop centrifuges ROTINA 420/420 R

The compact benchtop centrifuges are designed both for high sample throughput and high sample volumes. With a max. capacity of 4 x 600ml, 140 blood collection tubes or 16 microtitre plates they are ideal for applications in clinical chemistry, in biotechnology and in life science research facilities. With frequency drive, microprocessor control and impulse key for short centrifuging and motorised lid locking. The advanced C control panel is ideal for daily routine tasks in the laboratory. Parameter selection is achieved via the use of symbol keys. Values are set with the control knob, and recorded by pressing the Start key. Digital display. 98 programmable memories. Temperature in the refrigerated ROTINA 420 R is adjustable within a range of -20 to +40°C. The temperature can also be set in degrees Fahrenheit. Hettich

Specifications

Max. rcf: 24400xg
 Max. speed: 15000rpm
 Max. capacity: 4 x 600ml

| Type | Description | Dimensions (W x D x H) mm | Weight kg | PK | Cat. No. |
|--------------|-----------------------------------|---------------------------|-------------|----|--------------------|
| ROTINA 420 | without rotor | 506 x 650 x 423 | approx. 75 | 1 | 9.943 125 1 |
| ROTINA 420 R | without rotor, with refrigeration | 713 x 654 x 423 | approx. 108 | 1 | 9.943 126 2 |



4 5 Centrifuges ROTANTA 460 series

NEW!

Hettich

For sample processing in clinical chemistry, biotechnology, molecular biology and the pharmaceutical industry a wide selection of adapters is available to accommodate the most varied types of tubes. Developed for large volumes, the model offers frequency drive, microprocessor control, impulse key for short centrifuging, and powered lid locking. As necessary, a switch key enables entry/display of RPM (speed) or RCF. All ROTANTA 460 models feature the extended C control panel, which provides up to 98 programmable memories. Temperature in the refrigerated ROTANTA 460 R is controllable within a range of -20°C to +40°C. The temperature can also be set in degrees Fahrenheit. The refrigerated ROTANTA 460 R can also be supplied in an underbench version or as a floorstanding model.

Without rotors. Please order separately.

Specifications

Max. capacity: 4 x 750ml
 Max. speed range: 15000rpm
 Max. rcf: 24400xg
 Running time: 1sec - 99h : 59min : 59sec, ∞ continuous run, short cycle mode



| Type | Description | Dimensions (W x D x H) mm | Weight kg | Voltage 50/60 Hz | PK | Cat. No. |
|----------------|----------------------------------|---------------------------|-------------|------------------|----|-----------|
| ROTANTA 460 | Benchtop centrifuge, classic | 554 x 706 x 456 | approx. 93 | 200-240 V | 1 | 9.943 150 |
| ROTANTA 460 | Benchtop centrifuge, classic | 554 x 706 x 456 | approx. 103 | 100-127 V | 1 | 9.943 151 |
| ROTANTA 460 R | Benchtop centrifuge, cooled | 770 x 706 x 456 | approx. 133 | 200-240 V | 1 | 9.943 152 |
| ROTANTA 460 R | Benchtop centrifuge, cooled | 770 x 706 x 456 | approx. 143 | 100-127 V | 1 | 9.943 153 |
| ROTANTA 460 RC | Underbench centrifuge, cooled | 554 x 697 x 683 | approx. 140 | 200-240 V | 1 | 9.943 154 |
| ROTANTA 460 RF | Floorstanding centrifuge, cooled | 554 x 697 x 961 | approx. 164 | 200-240 V | 1 | 9.943 155 |

1

1 Accessories for the ROTANTA 460 centrifuge series
Hettich

| Type | Description | PK | Cat. No. |
|--------|--|----|------------------|
| 5624 | Swing-out rotor for max. 4 x 750ml or 4 blood bag systems 450ml | 1 | 9.943 439 |
| 5620 | Round carrier 750ml for swing-out rotor 5624 | 1 | 9.943 362 |
| 5621 | Lid with bio-containment for round carrier 5620 | 1 | 9.943 363 |
| 5628 | Rectangular carrier for tubes and plates for swing-out rotor 5624 | 1 | 9.943 364 |
| 5629 | Lid with bio-containment for rectangular carrier 5628 | 1 | 9.943 365 |
| 5694 | Swing-out rotor for max. 4 x 250ml without carriers | 1 | 9.943 440 |
| 4446 | Swing-out rotor for max. 6 x 250ml without carriers | 1 | 9.943 441 |
| 5092 | Round carrier for max. 290ml for swing-out rotors 5694 and 4446 | 1 | 9.943 359 |
| 5051 | Rectangular carrier for max. 100ml for swing-out rotors 5694 and 4446 | 1 | 9.943 458 |
| 5093 | Lid with bio-containment for round carrier 5092 | 1 | 9.943 361 |
| 4620 | Swing-out rotor 2-place for max. 12 microtitre plates without carriers | 1 | 9.943 442 |
| 4489-A | Angle rotor for 30 x 0.2 - 2ml with lid with bio-containment | 1 | 9.943 443 |
| 5615 | Angle rotor for max. 6 x 94ml with lid with bio-containment | 1 | 9.943 444 |
| 5645 | Angle rotor for max. 6 x 250ml with lid with bio-containment | 1 | 9.943 445 |
| 4474 | Swing-out rotor 4-place for 50ml or 100ml ASTM tubes without carriers | 1 | 9.943 446 |
| 5616 | Angle rotor 6-place for 25 ml or 50ml Schlenk tubes | 1 | 9.943 447 |
| 4619 | Swing-out rotor 6-place for 30ml chrome bath tubes | 1 | 9.943 448 |

Additional accessories available on request.

2

2 Floor standing centrifuges ROTIXA 50 S/50 RS
Hettich

Large-capacity, floor standing centrifuges for high sample throughput. ROTIXA 50 S/50 RS are the centrifuges of choice for development and quality control laboratories in the life science industry and for general medical laboratories. They also accommodate clinical chemistry analyser racks from various manufacturers. Both models feature frequency drive, microprocessor control and impulse key for short period centrifuging. The ROTIXA centrifuges feature the S control panel as standard. This control panel offers 89 programmable memories and many special options. The refrigerated Rotixa 50 RS can control the chamber temperature between -20 and +40°C. On request, it can also be supplied in a heating/cooling version with a temperature range of -20 to +60°C.

Specifications

| | |
|----------------|------------|
| Max. rcf: | 5252xg |
| Max. speed: | 4.500rpm |
| Max. capacity: | 4 x 1000ml |

| Type | Description | Dimensions (W x D x H) mm | Weight kg | PK | Cat. No. |
|--------------|---|---------------------------|-----------|----|------------------|
| ROTIXA 50 S | without rotor, with S control panel | 650 x 720 x 1030 | 115 | 1 | 9.943 127 |
| ROTIXA 50 RS | without rotor, with S control panel and refrigeration | 650 x 720 x 1030 | 172 | 1 | 9.943 128 |

Accessories for floorstanding centrifuges ROTIXA 50 S/50 RS
Hettich

| Type | Description | PK | Cat. No. |
|--------|---|----|------------------|
| 4294 | Swing-out rotor for max. 4 x 1000ml without carriers | 1 | 9.943 449 |
| 4254 | Groove ring carrier for swing-out rotor 4294 | 1 | 9.943 366 |
| 4255 | Bucket with lid 1000ml for groove ring carrier 4254 | 1 | 9.943 367 |
| 4295 | Rectangular carrier for max. 750ml for swing-out rotor 4294 | 1 | 9.943 368 |
| 4229 | Lid for rectangular carrier 4295 | 1 | 9.943 369 |
| 4296 | Swing-out rotor for max. 6 x 250ml without carriers | 1 | 9.943 450 |
| 5092 | Round carrier for max. 250ml for swing-out rotor 4296 | 1 | 9.943 359 |
| 5093 | Lid with bio-containment for round carrier 5092 | 1 | 9.943 361 |
| 5051 | Rectangular carrier for max. 100ml for swing-out rotor 4296 | 1 | 9.943 458 |
| 5053 | Lid for rectangular carrier 5051 | 1 | 9.943 459 |
| 4282 | Swing-out rotor 2-place for racks or max. 16 microtitre plates without carriers | 1 | 9.943 451 |
| 4285-A | Carrier for swing-out rotor 4282 | 1 | 9.943 371 |
| 4274 | Swing-out rotor 4-place for 50ml or 100ml ASTM tubes without carriers | 1 | 9.943 453 |
| 4316 | Angle rotor 6-place for 25ml or 50ml Schlenk tubes | 1 | 9.943 454 |

Additional accessories available on request.

6. Distillation, Separation, Filtration Separating, centrifuging/Centrifuge tubes

1 Centrifuge tubes, round bottom, DURAN®

To DIN 58970 part 2. Glass Type I/neutral glass as per USP, EP and JP. Autoclavable.

DURAN Group

| Capacity ml | Dia. mm | Height mm | PK | Cat. No. |
|-------------|---------|-----------|----|-----------|
| 6 | 12 | 100 | 1 | 9.315 010 |
| 12 | 16 | 100 | 1 | 9.315 011 |
| 25 | 24 | 100 | 1 | 9.315 014 |
| 50 | 34 | 100 | 1 | 9.315 017 |
| 80* | 40 | 115 | 1 | 9.315 024 |
| 80 | 44 | 100 | 1 | 9.315 026 |
| 250* | 56 | 147 | 1 | 9.315 036 |

* Not to DIN.



2 3 Centrifuge tubes, round bottom, AR glass®

Round bottom. Graduated or ungraduated.

| Capacity ml | Dia. mm | Length mm | Grad. ml | PK | Cat. No. |
|-------------|---------|-----------|----------|----|-----------|
| 10 to 15 | 17 | 98 | no | 1 | 9.315 201 |
| 10 to 15 | 17 | 107 | no | 1 | 9.315 203 |
| 50 to 55 | 35 | 98 | no | 1 | 9.315 207 |
| 70 to 100 | 40 | 115 | no | 1 | 9.315 210 |
| 10 to 15 | 17 | 98 | yes | 1 | 9.315 217 |
| 10 to 15 | 17 | 107 | yes | 1 | 9.315 220 |
| 25 | 25 | 100 | yes | 1 | 9.315 225 |



4 Centrifuge tubes, glass, round bottom, graduated, DURAN®

In white enamel, rimless.

| Capacity ml | Dia. mm | Length mm | PK | Cat. No. |
|-------------|---------|-----------|----|-----------|
| 10 to 15 | 17 | 98 | 1 | 9.315 237 |
| 10 to 15 | 17 | 107 | 1 | 9.315 240 |
| 25 | 25 | 100 | 1 | 9.315 245 |



5 Centrifuge tubes, AR glass®, conical bottom

Ungraduated. Capacity approx. 15ml. Wall thickness approx. 1mm. Maximum loading: 3500xg rcf.

NEW!

BRAND



| Dia. mm | Length mm | Base | Neck | PK | Cat. No. |
|---------|-----------|----------------------|------------|-----|-----------|
| 17 | 113 | conical, long taper | beaded rim | 100 | 9.315 412 |
| 17 | 98 | conical, short taper | rimless | 1 | 9.315 420 |
| 17 | 98 | round bottom | rimless | 100 | 9.315 421 |



1 Centrifuge tubes, conical, PP

PP. High chemical resistance. Autoclavable. Can withstand temperatures up to +120°C. Cannot be used with naked flame.

Kartell

| Capacity ml | Dia. mm | Height mm | PK | Cat. No. |
|-------------|---------|-----------|-----|-----------|
| 10 | 16 | 108 | 500 | 9.315 832 |
| 15 | 18 | 120 | 500 | 9.315 833 |



2 Graduated centrifuge tubes, conical, PP

PP. Autoclavable. Can withstand temperatures up to +120°C. Rimmed. High chemical resistance. Good transparency, especially when in contact with liquids. Cannot be used with naked flame. Can be used as conventional test tubes.

Kartell

| Capacity ml | Grad. ml | Dia. mm | Height mm | PK | Cat. No. |
|-------------|----------|---------|-----------|-----|-----------|
| 10 | 0.10 | 16 | 107 | 100 | 6.233 811 |
| 15 | 0.20 | 18 | 118 | 100 | 9.315 834 |



3 Graduated centrifuge tubes, conical, PMP (TPX®)

PMP (TPX®). Autoclavable. Can withstand temperatures up to +170°C. Rimmed. High chemical resistance. Crystal clear. Cannot be used with naked flame. Can be used as conventional test tubes.

Kartell

| Capacity ml | Grad. ml | Dia. mm | Height mm | PK | Cat. No. |
|-------------|----------|---------|-----------|----|-----------|
| 10 | 0.10 | 16 | 107 | 50 | 6.075 746 |
| 15 | 0.20 | 18 | 118 | 50 | 6.231 946 |



4 Centrifuge tubes, cylindrical, PP

Translucent. PP. Autoclavable. Can withstand temperatures up to +120°C. Rimmed. High chemical resistance. Cannot be used with naked flame. Can also be used as conventional test tubes.

Kartell

| Capacity ml | Dia. mm | Height mm | PK | Cat. No. |
|-------------|---------|-----------|-----|-----------|
| 7 | 12 | 100.0 | 100 | 9.315 830 |
| 16 | 17 | 101.0 | 500 | 6.204 878 |
| 31 | 24 | 93.0 | 50 | 6.205 839 |
| 48 | 30 | 104.0 | 25 | 6.205 674 |
| 70 | 35 | 99.5 | 20 | 9.315 831 |
| 110 | 40 | 119.0 | 25 | 6.205 169 |

6. Distillation, Separation, Filtration Separating, centrifuging/Centrifuge tubes

1 Centrifuge tubes, plastic, round bottom Plastibrand®, graduated

NEW!

Transparent. PC. Rimless, with moulded graduations.
Slightly yellowish in colour. Round bottom. For use with loads up to 5000xg rcf.

BRAND

Note: the strength of Polycarbonate is reduced when it is autoclaved or cleaned using alkaline detergents.

| Capacity | Grad. | Dia. | Height | PK | Cat. No. |
|----------|-------|------|--------|----|-----------|
| ml | ml | mm | mm | | |
| 50 | 1 | 35 | 99 | 1 | 9.315 329 |
| 100 | 2 | 41 | 115 | 1 | 9.315 339 |
| 100 | 2 | 45 | 98 | 1 | 9.315 340 |



2 LLG-Centrifuge tubes, PP

NEW!

Polypropylene tubes with very good thermal, mechanical and chemical stability. Fitted with screw-on closure. Packed in boxes or bags. With graduations and labelling area. Cytotoxicity-free, DNase/RNase- and human DNA-free.

Specifications

Centrifugation capacity:

| | |
|------|-------|
| 15ml | 6000g |
| 50ml | 9000g |



| Dia. mm | Height mm | Capacity ml | Form | Description | PK | Cat. No. |
|---------|-----------|-------------|----------|------------------------|-----|-----------|
| 17.0 | 120 | 15 | conical | sterile, single packed | 50 | 9.316 062 |
| 17.0 | 120 | 50 | conical | non-sterile, in rack | 480 | 4.008 507 |
| 17.0 | 120 | 15 | conical | non-sterile | 500 | 9.316 063 |
| 30.0 | 120 | 50 | conical | sterile, single packed | 50 | 9.316 064 |
| 30.0 | 120 | 50 | conical | non-sterile | 500 | 9.316 065 |
| 30.0 | 120 | 50 | conical | non-sterile, in rack | 50 | 9.316 066 |
| 30.0 | 120 | 50 | with rim | sterile, single packed | 50 | 9.316 067 |
| 30.0 | 120 | 50 | with rim | sterile | 50 | 6.238 728 |
| 30.0 | 120 | 50 | with rim | non-sterile | 50 | 4.008 506 |
| 30.0 | 120 | 50 | with rim | non-sterile, in rack | 200 | 4.008 508 |

3 Centrifuge tubes

NEW!

Polypropylene tubes with very good thermal, mechanical and chemical stability. Fitted with screw-on closure. Packed in boxes or bags. With graduations and labelling area. Tubes are sterile, cytotoxicity-free, DNase/RNase- and human DNA-free.

Greiner Bio-One

Specifications:

Centrifugation capacity:

| | |
|------------------|---|
| 15ml without rim | 4000xg in swing out rotors 15000xg in fixed angle rotors |
| 50ml with rim | 3200xg in swing out rotors 9500xg in fixed angle rotors |
| 50ml with rim | 2800xg in swing out rotors 11500xg in fixed angle rotors |

| Dia. mm | Height mm | Capacity ml | Form | PK | Cat. No. |
|---------|-----------|-------------|-------------------|------|-----------|
| 17.0 | 120 | 15 | conical | 50 | 9.380 423 |
| 17.0 | 120 | 15 | conical | 500 | 7.380 423 |
| 17.0 | 120 | 15 | conical | 1000 | 7.053 718 |
| 30.0 | 115 | 50 | conical | 20 | 9.380 421 |
| 30.0 | 115 | 50 | conical | 500 | 7.380 421 |
| 30.0 | 115 | 50 | conical | 300 | 6.049 748 |
| 30.0 | 115 | 50 | conical, with rim | 25 | 9.380 422 |
| 30.0 | 115 | 50 | conical, with rim | 450 | 7.380 422 |
| 30.0 | 115 | 50 | conical, with rim | 300 | 6.054 664 |



Separating, centrifuging/Centrifuge tubes



1 2 Centrifuge tubes, conical tubes, PP/PE-HD

New and improved conical tubes with the largest writing area on the market for increased traceability with additional space for labeling information. Recyclable plastic rack reduces waste in the lab. New conical tubes have higher RCF ratings, which enable more applications from low speed to super speed centrifugation. They meet USP class VI requirements and are non-cytotoxic, non-pyrogenic and RNase/DNase free. Graduated, leak proof and sterile (SAL 10⁻⁶)

Material tubes: PP
Material caps: PE-HD

Nunc

| Capacity ml | Description | Max. rcf | PK | Cat. No. |
|-------------|-------------|------------|-----|------------------|
| 15 | Bulk | 10500 x g* | 500 | 9.401 430 |
| 15 | Racked | 10500 x g* | 500 | 9.401 431 |
| 50 | Bulk | 17000 x g* | 500 | 9.401 432 |
| 50 | Racked | 17000 x g* | 300 | 9.401 433 |

* When fully supported by conical rotor cavity or conical adaptor. Note the maximum speeds listed are guidelines only. These speeds have been achieved in reliability tests based on sedimentation of 1.2 specific gravity fluid at 18°C.

3 Disposable bioreactor CultiFlask 50 ml

Disposable culture system for mammalian cells growing in suspension, for high throughput screening of process parameters and production cell lines.

Sartorius Stedim

box of 180 pieces
total volume: 50ml
working volume: 5 to 35ml

| Type | PK | Cat. No. |
|---------------|-----|------------------|
| CultiFlask 50 | 180 | 7.624 610 |

4 Centrifuge tubes, conical, DURAN®

Rimless, with conical base.

DURAN Group

| Capacity ml | Dia. mm | Height mm | Angle | PK | Cat. No. |
|-------------|---------|-----------|-------|----|------------------|
| 12 | 16 | 100 | 30 | 1 | 9.315 509 |
| 25 | 24 | 100 | 60 | 1 | 9.315 514 |
| 50 | 34 | 100 | 60 | 1 | 9.315 517 |

5 Centrifuge tubes, AR glass®, conical bottom, graduated

Graduated, with rim and conical bottom.

BRAND

Capacity approx. 15ml. Graduation of approx. volume and labelling in high-contrast white enamel. Graduated from 0 to 15ml x 0.1ml divisions. Wall thickness, approx. 1mm. For use with loads up to 3500xg rcf.

| Dia. mm | Height mm | PK | Cat. No. |
|---------|-----------|----|------------------|
| 17 | 113 | 1 | 9.315 416 |

6 ASTM centrifuge tube BLAUBRAND®

Borosilicate glass 3.3. Cylindrical, with conical base.

BRAND

Complies with ASTM D 91. Capacity 100ml.

Graduations and labelling in high-contrast blue enamel. Maximum loading 700 xg rcf. Supplied singly.

| Graduated, ml: | In subdivisions, ml: |
|----------------|----------------------|
| 0 to 0.5 | 0.05 |
| 0.5 to 2 | 0.10 |
| 2 to 3 | 0.20 |
| 3 to 5 | 0.50 |
| 5 to 10 | 1.00 |
| 10 to 25 | 5.00 |
| 25 to 100 | 25.0 |

| Capacity ml | PK | Cat. No. |
|-------------|----|------------------|
| 100 | 1 | 9.315 810 |

1 ASTM centrifuge tube BLAUBRAND®.

Borosilicate glass 3.3. BRAND
 Pear-shaped, with cylindrical base.
 Former standard ASTM D 96. Capacity 100ml.
 Graduations and labelling in high-contrast blue enamel. Maximum loading 700xg rcf. Supplied singly.

| Graduated, ml: | In subdivisions, ml: |
|----------------|----------------------|
| 0 to 1.5 | 0.10 |
| 1.5 to 3 | 0.50 |
| 3 to 5 | 0.50 |
| 5 to 10 | 1.00 |
| 10 to 25 | 5.00 |
| 25 to 100 | 25.0 |

| Capacity ml | PK | Cat. No. |
|-------------|----|-----------|
| 100 | 1 | 9.315 815 |



2 Centrifuge tubes Oak Ridge Typ 3114, FEP

Teflon® FEP with Tefzel® ETFE screw cap. Resistant to all acids, bases and solvents. Nalgene
 Autoclavable. Operating temperature range -100 to +150°C. Can be used brim-full in refrigerated centrifuges at up to 50000xg rcf. Leak-proof. Accessory sealing cap assemblies are available for all sizes.

| Capacity ml | Dia. mm | Height mm | Type | PK | Cat. No. |
|-------------|---------|-----------|------|----|-----------|
| 10 | 16.0 | 81.5 | 3114 | 1 | 9.315 701 |
| 30 | 25.5 | 93.7 | 3114 | 1 | 9.315 702 |
| 50* | 28.5 | 107.7 | 3114 | 1 | 9.315 703 |

* Capacity: 46ml to the brim.
 Teflon® and Tefzel® are a registered trademark of DuPont.



3 Centrifuge tubes Oak Ridge Typ 3115, PSU

Transparent. Polysulphone (PSU) with PP screw cap. As stable and robust as PC test-tubes, but considerably more resistant to acids and alkalis. Autoclavable. Can be used in refrigerated or ambient centrifuges at up to 50000xg rcf. Accessory sealing cap assemblies are available for all sizes. Nalgene
 Notes: If autoclaving, the tubes must be filled to 80% of their total capacity. Polysulphone must not be used with Tween, as this causes hairline cracks to form.

| Type | Capacity ml | Dia. mm | Height mm | PK | Cat. No. |
|------|-------------|---------|-----------|----|-----------|
| 3115 | 10 | 16.0 | 82.0 | 1 | 9.315 706 |
| 3115 | 30 | 25.7 | 94.5 | 1 | 9.315 708 |
| 3115 | 50* | 29.0 | 107.7 | 1 | 9.315 709 |

* Capacity: 43ml to the brim.



4 Centrifuge tubes Oak Ridge Typ 3118, PC

Transparent. PC with PP screw cap. Can be used in suitable refrigerated or ambient centrifuges at up to 50000xg rcf. Autoclavable. Accessory sealing cap assemblies are available for 10ml, 30ml and 50ml sizes. Nalgene

| Type | Capacity ml | Dia. mm | Height mm | PK | Cat. No. |
|------|-------------|---------|-----------|----|-----------|
| 3118 | 10 | 16.1 | 81.7 | 1 | 9.315 691 |
| 3118 | 28 | 25.4 | 101.8 | 1 | 9.315 692 |
| 3118 | 30 | 25.7 | 94.5 | 1 | 9.315 693 |
| 3118 | 50* | 28.8 | 107.0 | 1 | 9.315 694 |
| 3118 | 85** | 38.2 | 105.7 | 1 | 9.315 695 |

* Capacity: 43ml to the brim.
 **Capacity: 81ml to the brim.





1 Centrifuge tubes Oak Ridge Typ 3119, PP-copolymer

PP-copolymer with PP screw cap. POCO is more resistant to chemicals than PC. Autoclavable. When wet, the translucent test-tube enables observation of the contents. Can be used in refrigerated and unrefrigerated centrifuges at up to 50000xg rcf. Accessory sealing cap assemblies are available for all sizes.

Nalgene

| Type | Capacity ml | Dia. mm | Height mm | PK | Cat. No. |
|------|-------------|---------|-----------|----|-----------|
| 3119 | 10 | 16.0 | 81.4 | 1 | 9.315 711 |
| 3119 | 28 | 25.4 | 101.9 | 1 | 9.315 712 |
| 3119 | 30 | 25.5 | 94.3 | 1 | 9.315 713 |
| 3119 | 50* | 28.8 | 106.7 | 1 | 9.315 714 |

* Capacity: 42ml to the brim.



2 Centrifuge bottles Typ 3120, PP-copolymer

PP-copolymer with PP screw cap. Autoclavable.

Nalgene

| Type | Capacity ml | Dia. mm | Height mm | Max. rcf | PK | Cat. No. |
|------|-------------|---------|-----------|----------|----|-----------|
| 3120 | 250 | 61.8 | 127.7 | 13.200* | 1 | 9.315 716 |
| 3120 | 500 | 69.5 | 170.2 | 4.800 | 1 | 9.315 717 |
| 3120 | 500 | 73.8 | 170.0 | 4.800 | 1 | 9.315 720 |
| 3120 | 1000 | 97.5 | 184.5 | 7.100 | 1 | 9.315 718 |
| 3120 | 1000 | 97.7 | 179.0 | 7.100 | 1 | 9.315 719 |

* Up to 27500xg if using the sealing screw cap 9.315 734.

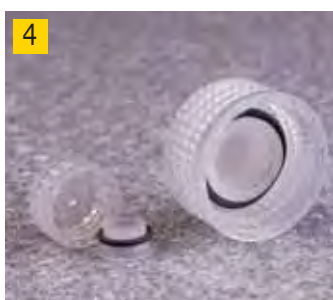


3 Centrifuge bottles Typ 3122, PC

PC with PP screw cap. Crystal clear. Good mechanical strength. Autoclavable. Leak-proof even at low speeds. In order to ensure that the system is leak-proof even at high speeds and when centrifuging dangerous substances, the 250ml and 1000ml sizes must be used in conjunction with sealing screw cap sets.

Nalgene

| Type | Capacity ml | Dia. mm | Height mm | Max. rcf | PK | Cat. No. |
|------|-------------|---------|-----------|----------|----|-----------|
| 3122 | 250 | 61.8 | 127.6 | 27.500 | 1 | 9.315 721 |
| 3122 | 500 | 69.5 | 169.6 | 13.700 | 1 | 9.315 723 |
| 3122 | 1000 | 97.6 | 188.4 | 7.100 | 1 | 9.315 724 |
| 3122 | 1000 | 98.1 | 180.2 | 7.100 | 1 | 9.315 725 |



4 Sealing cap assemblies Typ DS 3131, PP

PP screw cap with Tefzel® ETFE plug liner and viton O-ring. Leak-proof at recommended maximum speed and rcf for tubes. Suitable for working with aggressive chemicals. The 38mm assembly has a PP shoulder reinforcement ring to prevent collapsing of the 250ml bottles.

Nalgene

| Type | For tubes ml | Screw cap dia. mm | PK | Cat. No. |
|--------|--------------|-------------------|----|-----------|
| DS3131 | 30 | 20 | 1 | 9.315 732 |
| DS3131 | 50 | 24 | 1 | 9.315 733 |
| DS3131 | 250 | 38 | 1 | 9.315 734 |

Tefzel® is registered trademark of DuPont.

6. Distillation, Separation, Filtration Separating, centrifuging/Centrifuge tubes

1 Sealing cap assemblies with silicone seal Typ DS 3132, PP

For Oak Ridge centrifuge test tubes made of PP, PC and polysulphone.

Nalgene

| Type | For tubes ml | Screw cap dia. mm | PK | Cat. No. |
|--------|--------------|-------------------|----|-----------|
| DS3132 | 28 / 30 | 20 | 2 | 9.315 738 |
| DS3132 | 50 | 24 | 2 | 9.315 739 |
| DS3132 | 250 | 58 | 2 | 9.315 740 |
| DS3132 | 500 / 1000 | 63 | 2 | 9.315 741 |



2 Wide-mouth centrifuge bottles Typ 3141, PP-copolymer

PP-copolymer with sealing screw cap. Autoclavable.

Nalgene

| Type | Capacity ml | Dia. mm | Height mm | Max. rcf x g | PK | Cat. No. |
|------|-------------|---------|-----------|--------------|----|-----------|
| 3141 | 250 | 60.7 | 133.4 | 27500 | 1 | 9.315 763 |
| 3141 | 450 | 69.5 | 160.0 | 13700 | 1 | 9.315 764 |



3 Centrifuge Bottles with Sealing Cap , SuperSpeed, Types 3140, 3141

NEW!

Designed to boost productivity and pellet recovery in super speed, large volume gross separation applications. Process one full Litre in each window-clear bottle at speeds up to 15810xg. Graduated, wide-mouth bottle simplifies decanting, re-suspensions and pellet removal. Smooth inner walls are less likely to shear delicate cells. Ideal for bacterial, yeast and tissue isolations. Improve viral harvesting in vaccine production. Reduce shearing in mammalian culture separations. PC offers excellent clarity. Ergonomic design facilitates loading, recovery and storage of samples. Recommended operating temperature range is from 4°C to 22°C; storage to -70°C. Brim capacity is 1.055ml. Nominal Dimensions (Diam. x H): 96.52 x 195.58mm. Before autoclaving, just set closure on top of bottles without engaging the threads. For proper performance these bottles must be filled to at least 80% of the total capacity.

Nalgene

| Type | Capacity ml | Material | PK | Cat. No. |
|------|-------------|----------|----|-----------|
| 3140 | 1000 | PC | 1 | 9.315 729 |
| 3141 | 1000 | PPCO | 1 | 6.236 915 |



4 Centrifuge bottles Type 3120, BioBottle

NEW!

- Centrifuge bottle with 2L capacity.
- Separating large volumes up to 12L
- Centrifugation up to 7333xg, at temperatures from 4°C to 22°C
- Bottle meets the requirements of USP VI
- Non-cytotoxic, not hemolytic
- PPCO bottle, PP seal screw cap with silicone seal
- Graduated, total volume of 2380ml
- Excellent chemical resistance
- Before autoclaving, unscrew the cap and place it on the bottle neck
- Bottles must always be at least 80% filled

Nalgene

| Type | Capacity ml | Material | PK | Cat. No. |
|------|-------------|---------------|----|-----------|
| 3120 | 2000 | PPCO | 1 | 9.315 727 |
| 3120 | 2000 | PPCO, sterile | 1 | 9.315 728 |





1 Centrifugal concentrators, Vivaspin 500

Vivaspin 500µl unit with 2.2ml sample carrier tube can be used in a fixed angle rotor. The vertical, built-in membrane guarantees minimal membrane fouling and provides rapid sample concentration. Low protein adsorption gives minimal sample loss.

Sartorius Stedim

| | |
|-------------------|--------------------|
| Membrane surface: | 0.5cm ² |
| Max. rcf.: | 15000 x g |
| Hold-up volume: | < 5µl |

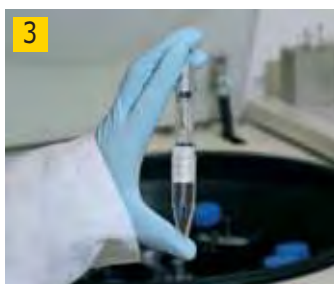


2 Centrifugal concentrators, Vivaspin 500

Membrane: polyethersulphone

Sartorius Stedim

| MWCO | PK | Cat. No. |
|-----------------------------------|-----|-----------|
| 3000 | 25 | 9.049 863 |
| 5000 | 25 | 9.049 755 |
| 10000 | 25 | 9.049 756 |
| 30000 | 25 | 9.049 757 |
| 50000 | 25 | 9.049 758 |
| 100000 | 25 | 9.049 759 |
| Starter kit (5 ea. 5K to 100K) | 25 | 9.049 750 |
| 3000 | 100 | 9.049 864 |
| 5000 | 100 | 9.049 850 |
| 10000 | 100 | 9.049 851 |
| 30000 | 100 | 9.049 852 |
| 50000 | 100 | 9.049 853 |
| 100000 | 100 | 9.049 854 |



3 Centrifugal concentrators, Vivaspin 2

This 2 ml volume unit combines the rapidity of the classic Vivaspin products with reduced internal surface and membrane areas for superior recoveries from very dilute solutions.

Sartorius Stedim

With a choice of suitable membranes (PES, CTA, Hydrosart) Vivaspin 2 provides the highest flexibility for process optimisation.

Vivaspin 2 guarantees maximum sample recovery either by reverse centrifuging into the concentrate recovery cap or by directly pipetting the concentrate from the deadstop pocket built into the bottom of the concentrator.

| | |
|-------------------|--------------------|
| Membrane surface: | 1.2cm ² |
| Max. rcf.: | 8000 x g |
| Hold-up volume: | < 10µl |



4 Centrifugal concentrators, Vivaspin 2

Membrane: polyethersulphone

Sartorius Stedim

| MWCO | PK | Cat. No. |
|--------|-----|-----------|
| 3000 | 25 | 9.049 861 |
| 5000 | 25 | 9.049 760 |
| 10000 | 25 | 9.049 761 |
| 30000 | 25 | 9.049 762 |
| 50000 | 25 | 9.049 763 |
| 100000 | 25 | 9.049 764 |
| 3000 | 100 | 9.049 862 |
| 5000 | 100 | 9.049 777 |
| 10000 | 100 | 9.049 778 |
| 30000 | 100 | 9.049 779 |
| 50000 | 100 | 9.049 780 |
| 100000 | 100 | 9.049 781 |



5 Vivaspin 6

Vivaspin 6ml concentrators have been developed to offer increased volume flexibility and performance. Vivaspin 6 can process an impressive 6ml in either swing-out buckets or fixed angle rotors accepting standard 15ml conical bottom test tubes. The Vivaspin 6 features twin vertical membranes for unparalleled filtration speeds and 100x plus concentrations.

Sartorius Stedim

| | |
|-------------------------|--------------------|
| Membrane area: | 2.5cm ² |
| Max. centrifugal force: | 10000 x g |
| Dead volume: | < 10µl |

1 Centrifugal concentrators, Vivaspin 6

Membrane: polyethersulphone

Sartorius Stedim

| MWCO | PK | Cat. No. |
|--------------------------------|-----|-----------|
| 5000 | 25 | 9.049 765 |
| 10000 | 25 | 9.049 766 |
| 30000 | 25 | 9.049 767 |
| 50000 | 25 | 9.049 768 |
| 100000 | 25 | 9.049 769 |
| 0.2 µm | 25 | 9.049 770 |
| 5000 | 100 | 9.049 782 |
| 10000 | 100 | 9.049 783 |
| 30000 | 100 | 9.049 784 |
| 50000 | 100 | 9.049 785 |
| 100000 | 100 | 9.049 786 |
| 0.2 µm | 100 | 9.049 787 |
| Starter kit (5 ea. 5K to 100K) | 25 | 9.049 753 |



2 Vivaspin 20

Vivaspin 20ml centrifugal concentrators have been developed to offer increased volume flexibility and performance.

Sartorius Stedim

Vivaspin 20 handles up to 20ml in swing bucket centrifuges and 14ml in 25° fixed angle rotors accepting 50ml centrifuge tubes. Featuring twin vertical membranes for unparalleled filtration speeds the Vivaspin 20 can achieve 100x plus concentrations. Remaining volume is easy to read off the printed scale on the side of the concentrator and the modified dead stop pocket further simplifies direct pipette recovery of the final concentrate.

Membrane area: 6.0cm²
 Max. centrifugal force: 8000xg
 Dead volume: < 20µl



3 Centrifugal concentrators, Vivaspin 20

Membrane: polyethersulphone

Sartorius Stedim

| MWCO | PK | Cat. No. |
|----------------------|----|-----------|
| 3000 | 12 | 9.049 855 |
| 5000 | 12 | 9.049 771 |
| 10000 | 12 | 9.049 772 |
| 30000 | 12 | 9.049 773 |
| 50000 | 12 | 9.049 774 |
| 100000 | 12 | 9.049 775 |
| 300000 | 12 | 9.049 857 |
| 1000000 | 12 | 9.049 858 |
| 0.2 µm | 12 | 9.049 776 |
| 3000 | 48 | 9.049 856 |
| 5000 | 48 | 9.049 788 |
| 10000 | 48 | 9.049 789 |
| 30000 | 48 | 9.049 790 |
| 50000 | 48 | 9.049 791 |
| 100000 | 48 | 9.049 792 |
| 300000 | 48 | 9.049 859 |
| 1000000 | 48 | 9.049 860 |
| 0.2 µm | 48 | 9.049 793 |
| Starter kit | 12 | 9.049 754 |
| (2 ea. 5K to 0.2 µm) | | |



4 Centrifugal filtration units, Centrisart I

Centrisart I is a ready to use unit for small volume centrifugal ultrafiltration to separate proteins from low molecular weight substances in biological samples.

Sartorius Stedim

Typical applications include:

- Drug binding studies
- Determination of metabolites in serum
- Protein removal from blood samples
- Cleaning of liposomes (virus removal)

| Type | PK | Cat. No. |
|---|----|-----------|
| Centrisart 5,000 MWCO CTA | 12 | 9.054 671 |
| Centrisart 10,000 MWCO CTA | 12 | 9.054 672 |
| Centrisart 20,000 MWCO CTA | 12 | 9.054 673 |
| Centrisart 100,000 MWCO PES | 12 | 9.054 674 |
| Starter pack (3 units each of 5K, 10K, 20K, 100K) | 12 | 9.054 675 |

CTA = Cellulose tri-acetate
 PES = Polyethersulphone





1 Crossflow filter units, VivaFlow

Thin channel, crossflow filter units with 50cm²/200cm² filter areas for capacities between 100ml/500ml and 5L. This system provides high crossflow rates at minimum pumping pressure and does not require additional fittings for scale-up.

VivaFlow 50 is easy to operate with a flow restrictor and, optionally, a pressure indicator. Modular construction with luer connections allows interlocking of units in series for easy scale-up. Recovery rates are maximised due to optimised recirculation volume and by use of low adsorption materials. Disposable.

For greater volumes, VivaFlow 200 is available with a filter area of 200cm² and includes pressure indicator, flow restrictor, filtrate tubing and connectors.

Sartorius Stedim



2 Centrifugal concentrators, Vivacell 70

Membrane: polyethersulphone

Sartorius Stedim

| MWCO | Description | PK | Cat. No. |
|--------|--|----|-----------|
| 5000 | with 2 x filtrate bottles to fit 250ml centrifuge rotors | 2 | 9.049 730 |
| 10000 | with 2 x filtrate bottles to fit 250ml centrifuge rotors | 2 | 9.049 731 |
| 30000 | with 2 x filtrate bottles to fit 250ml centrifuge rotors | 2 | 9.049 732 |
| 50000 | with 2 x filtrate bottles to fit 250ml centrifuge rotors | 2 | 9.049 733 |
| 100000 | with 2 x filtrate bottles to fit 250ml centrifuge rotors | 2 | 9.049 734 |
| 0.2 µm | with 2 x filtrate bottles to fit 250ml centrifuge rotors | 2 | 9.049 735 |
| 5000 | without filtrate bottles | 10 | 9.049 736 |
| 10000 | without filtrate bottles | 10 | 9.049 737 |
| 30000 | without filtrate bottles | 10 | 9.049 738 |
| 50000 | without filtrate bottles | 10 | 9.049 739 |
| 100000 | without filtrate bottles | 10 | 9.049 740 |
| 0.2 µm | without filtrate bottles | 10 | 9.049 741 |

Accessories available on request.



3 Separating funnels "squibb"

Supplied with PTFE stopcock, graduated or ungraduated. According to DIN 12452.

NEW!

Isolab

| Capacity ml | NS | Description | PK | Cat. No. |
|-------------|-------|-------------|----|-----------|
| 50 | 19/26 | ungraduated | 1 | 4.008 422 |
| 100 | 19/26 | ungraduated | 1 | 6.241 670 |
| 250 | 29/32 | ungraduated | 1 | 6.238 526 |
| 500 | 29/32 | ungraduated | 1 | 6.238 527 |
| 1000 | 29/32 | ungraduated | 1 | 6.241 669 |
| 2000 | 29/32 | ungraduated | 1 | 6.241 668 |
| 50 | 19/26 | graduated | 1 | 6.236 317 |
| 100 | 19/26 | graduated | 1 | 6.236 318 |
| 250 | 29/32 | graduated | 1 | 6.236 319 |
| 500 | 29/32 | graduated | 1 | 6.236 320 |
| 1000 | 29/32 | graduated | 1 | 6.236 321 |
| 2000 | 29/32 | graduated | 1 | 6.240 412 |

6. Distillation, Separation, Filtration Separating, centrifuging/Separating funnels

1 Separating funnels, Borosilicate glass 3.3, Squibb-pattern, with PTFE key

Squibb-pattern. With glass stopcock, PTFE key and retaining device. Available with, or without, graduations to read the approximate volume. With PP conical stopper.

Lenz

| Capacity | Socket | Bore | Graduations | PK | Cat. No. |
|----------|--------|------|-------------|----|-----------|
| ml | NS | mm | ml | | |
| 50 | 19/26 | 2.5 | 2 | 1 | 9.203 372 |
| 100 | 19/26 | 2.5 | 5 | 1 | 9.203 373 |
| 250 | 29/32 | 4.0 | 5 | 1 | 9.203 375 |
| 500 | 29/32 | 4.0 | 10 | 1 | 9.203 376 |
| 1000 | 29/32 | 6.0 | 20 | 1 | 9.203 377 |
| 2000 | 29/32 | 6.0 | 50 | 1 | 9.203 378 |
| 50 | 19/26 | 2.5 | without | 1 | 9.203 322 |
| 100 | 19/26 | 2.5 | without | 1 | 9.203 323 |
| 250 | 29/32 | 4.0 | without | 1 | 9.203 325 |
| 500 | 29/32 | 4.0 | without | 1 | 9.203 328 |
| 1000 | 29/32 | 6.0 | without | 1 | 9.203 330 |
| 2000 | 29/32 | 6.0 | without | 1 | 9.203 332 |



2 Separating funnels, conical, borosilicate glass 3.3

Supplied with PTFE stopcock, graduated or ungraduated. According to DIN 12452.

Isolab

NEW!

| Capacity | Description | PK | Cat. No. |
|----------|-------------|----|-----------|
| ml | | | |
| 50 | ungraduated | 1 | 4.008 423 |
| 100 | ungraduated | 1 | 4.008 424 |
| 250 | ungraduated | 1 | 6.242 395 |
| 500 | ungraduated | 1 | 4.008 425 |
| 1000 | ungraduated | 1 | 6.242 694 |
| 2000 | ungraduated | 1 | 4.008 426 |
| 50 | graduated | 1 | 4.008 427 |
| 100 | graduated | 1 | 6.241 980 |
| 250 | graduated | 1 | 6.241 671 |
| 500 | graduated | 1 | 6.241 981 |
| 1000 | graduated | 1 | 6.244 011 |
| 2000 | graduated | 1 | 6.242 394 |



3 Separating funnels, Borosilicate glass 3.3, conical, with PTFE key

Conical pattern. With glass stopcock, PTFE key and retaining device. Available with, or without, graduations to read the approximate volume. With PP conical stopper.

Lenz

| Capacity | Socket | Bore | Grad. | PK | Cat. No. |
|----------|--------|------|---------|----|-----------|
| ml | NS | mm | ml | | |
| 50 | 19/26 | 2.5 | 2 | 1 | 9.203 482 |
| 100 | 19/26 | 2.5 | 5 | 1 | 9.203 483 |
| 250 | 29/32 | 4.0 | 10 | 1 | 9.203 485 |
| 500 | 29/32 | 4.0 | 10 | 1 | 9.203 486 |
| 1000 | 29/32 | 6.0 | 20 | 1 | 9.203 487 |
| 2000 | 29/32 | 6.0 | 50 | 1 | 9.203 488 |
| 50 | 19/26 | 2.5 | without | 1 | 9.203 462 |
| 100 | 19/26 | 2.5 | without | 1 | 9.203 463 |
| 250 | 29/32 | 4.0 | without | 1 | 9.203 465 |
| 500 | 29/32 | 4.0 | without | 1 | 9.203 466 |
| 1000 | 29/32 | 6.0 | without | 1 | 9.203 467 |
| 2000 | 29/32 | 6.0 | without | 1 | 9.203 468 |



4 Separating funnels with screw cap, Type 4301, FEP

Transparent. Teflon® FEP, Tefzel® ETFE stopcock and ETFE screw cap. Impact resistant. Non-wetting surfaces ensure no liquid residue adhesion. Chemically stable. Length of stem under stopcock 65mm. Autoclavable.

Nalgene

| Type | Capacity | Screw cap dia. | PK | Cat. No. |
|------|----------|----------------|----|-----------|
| | ml | mm | | |
| 4301 | 125 | 28 | 1 | 9.203 531 |
| 4301 | 250 | 33 | 1 | 9.203 532 |
| 4301 | 500 | 43 | 1 | 9.203 533 |
| 4301 | 1000 | 53 | 1 | 9.203 534 |
| 4301 | 2000 | 53 | 1 | 9.203 535 |

Teflon® and Tefzel® are registered trademark of DuPont.





1 Separating funnel holder PP

NEW!

Manufactured from best quality polypropylene. Suitable to hold all types of laboratory funnels and also separatory funnels with diameter up to 150mm. Two tapered wedges are provided to ensure firm grip.

Isolab

| Type | PK | Cat. No. |
|--------------------------|----|-----------|
| Separating funnel holder | 1 | 9.251 559 |



2 Dropping funnels, cylindrical, with pressure equalizing tube

NEW!

Borosilicate glass 3.3, cylindrical shape, with pressure equalizing tube. DIN 12451 and DIN 12567.

Isolab

| Capacity ml | NS | PK | Cat. No. |
|-------------|-------|----|-----------|
| 100 | 19/26 | 1 | 4.008 428 |
| 250 | 29/32 | 1 | 6.240 982 |
| 500 | 29/32 | 1 | 6.240 983 |



3 4 Dropping funnels, cylindrical, with pressure equalizing tube

NEW!

Borosilicate glass 3.3. Cylindrical shape, with pressure equalising tube. With NS socket and interchangeable PE stopper, plug with retaining device. With graduations for reading of the approx. volume.

Lenz

Two types available:

- With solid glass key
- With PTFE key

| Capacity ml | NS | Bore mm | Grad. ml | Keys | PK | Cat. No. |
|-------------|-------|---------|----------|-------|----|-----------|
| 25 | 14/23 | 2.5 | 1 | solid | 1 | 6.072 172 |
| 50 | 29/32 | 2.5 | 1 | solid | 1 | 9.012 767 |
| 50 | 14/23 | 2.5 | 1 | solid | 1 | 9.012 755 |
| 100 | 14/23 | 2.5 | 2 | solid | 1 | 9.012 756 |
| 100 | 29/32 | 2.5 | 2 | solid | 1 | 9.012 768 |
| 250 | 14/23 | 4.0 | 5 | solid | 1 | 9.012 757 |
| 250 | 29/32 | 4.0 | 5 | solid | 1 | 9.012 769 |
| 500 | 29/32 | 4.0 | 10 | solid | 1 | 9.012 770 |
| 1000 | 29/32 | 6.0 | 20 | solid | 1 | 7.601 147 |
| 25 | 14/23 | 2.5 | 1 | PTFE | 1 | 9.012 751 |
| 50 | 14/23 | 2.5 | 1 | PTFE | 1 | 9.012 752 |
| 50 | 29/32 | 2.5 | 1 | PTFE | 1 | 6.223 427 |
| 100 | 14/23 | 2.5 | 2 | PTFE | 1 | 9.012 753 |
| 100 | 29/32 | 2.5 | 2 | PTFE | 1 | 6.900 312 |
| 250 | 29/32 | 4.0 | 5 | PTFE | 1 | 9.012 764 |
| 500 | 29/32 | 4.0 | 10 | PTFE | 1 | 9.012 765 |
| 1000 | 29/32 | 6.0 | 20 | PTFE | 1 | 9.012 766 |

