

**TOMORROW  
LAB SINCE 1945**

**75  
YEARS**

**eppendorf**

General Lab Products



# Your Daily Companions

Eppendorf Microcentrifuges



## Meet the Next Generation in Microcentrifugation

### **With more than 50 years of experience...**

In 1964, Eppendorf introduced the first microcentrifuge for laboratory applications to the market. The Model 3200, with its fixed rotational speed and only one dial to select run time, was still relatively simple in terms of construction. Together with the microliter pipettes and Eppi® tubes that had been newly introduced only a short time before, the Model 3200 was an integral component of the Eppendorf microliter system. This system enabled work with even the smallest of sample volumes, thus revolutionizing biomedical research worldwide.

### **... and today's power of innovation ...**

Today, Eppendorf develops innovative, high-quality centrifuges for a broad range of applications. They offer an ergonomic operating concept with a multitude of options and they adhere to highest safety standards. Refrigerated centrifuges are further equipped with an advanced temperature management for the protection of your sensitive samples from heat. It is the goal of Eppendorf product development to surpass your expectations, to simplify processes in your lab, and to provide you with future-oriented new technologies.

### **... for the laboratories of tomorrow**

The result is a comprehensive line of microcentrifuges that serve the multiple applications you encounter in your lab – whether you just spin a few tubes at a time or need the extra versatility for handling plates and larger volume tubes directly on your lab bench. Eppendorf microcentrifuges are designed to go beyond speed and capacity to offer you unparalleled ergonomic operation and superior temperature management. You will not only experience enhanced performance, but also exceptional joy in their use.

# Ergonomic Operation

Ergonomics is not only a light-weight and small product. It is a general approach in the lab, combined of the lab itself, all products, the user and many more aspects. Spending time to optimize ergonomics in your lab can save time when working, protect you from work-associated injuries and improve your overall performance.



## Virtually silent operation

Eppendorf centrifuges are designed for low noise operation to benefit your work environment – you can work right next to them while they are running.



## Eppendorf QuickLock® rotors

Our aerosol-tight Eppendorf QuickLock rotors close with only  $\frac{1}{4}$  of a turn. This not only saves you time but also takes repetitive stress off your wrist.



## Soft-touch lid closure

All our microcentrifuges are equipped with a soft-touch one-finger lid closure. Just lower the lid gently and it will lock automatically. No more pressing or slamming down the lid.

## MiniSpin®/MiniSpin® plus

### Space saving 12-place mini-centrifuge for quick spin downs.

Powerful and user-friendly MiniSpin and MiniSpin plus are small enough so that each workstation can be equipped. Two models are available to meet your performance requirements. MiniSpin plus provides speed sufficient for molecular biology separations.

#### Product features

- > Capacity: 12 × 1.5/2.0 mL, 2 × PCR strip
- > Speed up to 12,100/14,100 × *g* (13,400/14,500 rpm)
- > Extremely compact footprint
- > Digital display for reproducible setting of time and speed
- > Rotor, inner centrifuge lid, and lid latch are made of metal for maximum operational safety
- > Soft-touch lid closure for ergonomic lid locking
- > Lid opens automatically at the end of the run to prevent sample warming and to allow easy access to samples

#### Additional features of MiniSpin® plus

- > Automatic rpm/rcf conversion
- > Extended time to 99 min or continuous centrifugation



## Rotors MiniSpin®/MiniSpin® plus



**Rotor F-45-12-11**  
for 12 x 1,5/2.0 mL tubes



**Rotor F-55-16-5 PCR**  
for 2 x PCR strips

#### Ordering information

Description	Order no.
Centrifuge MiniSpin®, non-refrigerated, with Rotor F-45-12-11, 230 V/50 – 60 Hz	5452 000 010
Centrifuge MiniSpin® plus, non-refrigerated, with Rotor F-45-12-11, 230 V/50 – 60 Hz	5453 000 015
Rotor F-55-16-5 PCR	5452 727 007
Rotor F-45-12-11	5452 720 008
Adapter, for 1 tube 0.5 mL or BD Microtainer®, max. Ø 8 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 716 001
Adapter, for 1 PCR tube 0.2 mL, max. Ø 6 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 715 005
Adapter, for 1 tube 0.4 mL, max. Ø 6 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 717 008

# Centrifuge 5418 R

## Compact refrigerated 18-place microcentrifuge for temperature sensitive samples.

The refrigerated Centrifuge 5418 R with its 18-place capacity rotor is specifically designed for low to medium capacity in 1.5/2.0 mL tubes and BD Microtainer®. Its speed of up to  $16,873 \times g$  allows for standard molecular biology applications.

### Product features

- > Capacity: 18 x 1.5/2.0 mL
- > Speed up to  $16,873 \times g$  (14,000 rpm)
- > Compact footprint to fit on crowded lab benches
- > OptiBowl® design allows for whisper quiet operation without rotor lid to benefit your work environment
- > Soft-touch one-finger lid closure for ergonomic operation
- > Automatic lid opening at the end of the run – prevents sample warming and allows easy access to samples
- > Aerosol-tight rotor for safe centrifugation of hazardous samples
- > Eppendorf QuickLock® rotor allows fast and ergonomic lid locking
- > Temperature control range from 0 °C to 40 °C
- > FastTemp function for fast pre-cooling and maximum temperature accuracy inside the rotor
- > ECO shut-off engages after 8 hours of nonuse to reduce energy consumption (47 % overnight) and extends compressor life (can be deactivated)



## Rotors for Centrifuge 5418 R



### Rotor F-45-24-11

- > for 18 x 1.5/2.0 mL tubes comes standard with unique Eppendorf QuickLock aerosol-tight lid for fast and reliable locking



### Adapter for 0.2 mL PCR Tubes

- > Ideal to spin down PCR Tubes after reaction setup. Adapter fits in any Eppendorf 1.5/2.0 mL rotor



### Adapter for BD Microtainer® and 0.5 mL tubes

- > The adapter can be used with every Eppendorf rotor for 1.5/2.0 mL tubes

### Ordering information

Description	Order no.
Centrifuge 5418 R, refrigerated, with Rotor FA-45-18-11 and rotor lid, 230 V/50 – 60 Hz	5401 000 010
Adapter, for 1 PCR tube 0.2 mL, max. Ø 6 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 715 005
Adapter, for 1 tube 0.5 mL or BD Microtainer®, max. Ø 8 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 716 001
Adapter, for 1 tube 0.4 mL, max. Ø 6 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 717 008

# Centrifuge 5420

## Small footprint 24-place microcentrifuge for routine applications.

Centrifuge 5420 was designed for molecular biology routine applications. It has a particularly small footprint to save space on the lab bench and an easy to clean keypad control panel.

### Product features

- > Standard rotor for up to 24 x 1.5 and 2.0 mL tubes
- > Rotor option for up to 32 x 0.2 mL PCR tubes or 4 x 8-place PCR strips
- > Adapters for 0.2, 0.4 and 0.5 mL tubes as well as 0.6 mL BD Microtainer®
- > Soft-touch one-finger lid closure for ergonomic lid locking
- > Automatic lid opening at the end of the run to prevent sample warming and to allow easy access to samples
- > High quality anodized aluminum rotors and rotor lids
- > One push short-spin key for quick centrifugation – no need to hold key all the while
- > Easy to clean keypad control panel
- > Particularly small footprint to save precious space on the lab bench:  
24 x 35 x 22 cm (W x D x H)
- > Max. speed: 21,300 x g (15,060 rpm)



### Ordering information

Description	Order no.
<b>Keypad</b>	
Centrifuge 5420, non-refrigerated, without rotor, keypad, 230 V/50 – 60 Hz	5420 000 318
Centrifuge 5420, non-refrigerated, with aerosol-tight Rotor FA-24x2, keypad, 230 V/50 – 60 Hz	5420 000 113

# Rotors for Centrifuge 5420



## Rotor FA-24x2

- > Max. speed:  $21,300 \times g$  (15,060 rpm)
- > Max. capacity:  $24 \times 1.5/2.0$  mL tubes
- > Aerosol-tight



## Rotor F-32x0.2-PCR

- > Max. speed:  $18,257 \times g$  (15,060 rpm)
- > Max capacity:  $4 \times$  PCR strips or  $32 \times$  PCR tubes (0.2 mL)

## Ordering information

Description	Order no.
<b>Rotor FA-24x2 for Centrifuge 5420</b> , aerosol-tight, for $24 \times 1.5/2.0$ mL tubes, incl. aerosol-tight rotor lid	5495 400 001
<b>Rotor F-32x0.2-PCR for Centrifuge 5420</b> , for $32 \times 0.2$ mL PCR tubes or $4 \times 8$ PCR strips, incl. rotor lid	5495 404 007
<b>Adapter</b> , for 1 PCR tube 0.2 mL, max. $\varnothing$ 6 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 715 005
<b>Adapter</b> , for 1 tube 0.5 mL or BD Microtainer®, max. $\varnothing$ 8 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 716 001
<b>Adapter</b> , for 1 tube 0.4 mL, max. $\varnothing$ 6 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 717 008

# Centrifuge 5424 R

## Refrigerated 24-place standard microcentrifuge for temperature sensitive samples.

Centrifuge 5424 R is the refrigerated laboratory standard when it comes to efficient cooling performance in a very ergonomic product design. It features state of the art cooling technology to ensure high temperature accuracy for maximum sample protection and best separation results.

### Product features

- > Capacity: 24 x 1.5/2.0 mL, 4 x PCR strips
- > Speed up to 21,130 x *g* (15,000 rpm)
- > OptiBowl design allows for quiet operation without rotor lid
- > Soft-touch one-finger closure for ergonomic operation
- > Temperature control range from -10 °C to 40 °C
- > ECO shut-off engages after 8 hours of non-use to reduce energy consumption (42 % overnight) and extend compressor life (can be deactivated)
- > Built-in condensation drain to eliminate water accumulation



### Ordering information

Description	Order no.
<b>Keypad</b>	
Centrifuge 5424 R, refrigerated, without rotor, keypad, 230 V/50 – 60 Hz	5404 000 210
Centrifuge 5424 R, refrigerated, with Rotor FA-45-24-11, keypad, 230 V/50 – 60 Hz	5404 000 010
<b>Rotary knobs</b>	
Centrifuge 5424 R, refrigerated, without rotor, rotary knobs, 230 V/50 – 60 Hz	5404 000 610
Centrifuge 5424 R, refrigerated, with Rotor FA-45-24-11, rotary knobs, 230 V/50 – 60 Hz	5404 000 410



# Rotors for Centrifuge 5424 R



## Rotor FA-45-24-11

- > Max. speed:  $21,130 \times g$  (15,000 rpm)
- > Max. capacity:  $24 \times 1.5/2.0$  mL tubes
- > Aerosol-tight for safe centrifugation of hazardous samples



## Rotor FA-45-24-11-PTFE

- > Max. speed:  $21,130 \times g$  (15,000 rpm)
- > Max. capacity:  $24 \times 1.5/2.0$  mL tubes
- > Aerosol-tight for safe centrifugation of hazardous samples
- > PTFE coating for increased chemical resistance



## Rotor F-45-18-11-Kit

- > Max. speed:  $18,111 \times g$  (15,000 rpm)
- > Max. capacity:  $18 \times$  spin columns or  $1.5/2.0$  mL tubes
- > Extended rim that protects tube caps from shearing off



## Rotor F-45-32-5-PCR

- > Max. speed:  $18,615 \times g$  (15,000 rpm)
- > Max. capacity:  $4 \times$  PCR strips

## Ordering information

Description	Order no.
Rotor FA-45-24-11, aerosol-tight	5424 702 007
Rotor FA-45-24-11-Special, aerosol-tight	5424 700 004
Rotor F-45-18-11-Kit	5424 706 002
Rotor F-45-32-5-PCR	5424 704 000
Adapter, for 1 tube 0.5 mL or BD microtainer®, max. Ø 8 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 716 001
Adapter, for 1 PCR tube 0.2 mL, max. Ø 6 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 715 005
Adapter, for 1 tube 0.4 mL, max. Ø 6 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 717 008

# Centrifuge 5425

## Whisper quiet 24-place standard microcentrifuge with outstanding feature set for broad range of applications.

Centrifuge 5425 has been engineered to be extremely quiet. Short runs up to 12 minutes are whisper quiet at an average of 45 dB(A). This is sufficient for centrifugation steps of most routinely used DNA/RNA purification kits. During longer runs the cooling fan works at full capacity to dissipate the heat for the remainder of the run.

### Product features

- > Whisper quiet microcentrifuge for stress-free work
- > Aerosol-tight Eppendorf QuickLock® lids for simple and safe handling
- > Outstanding software features (e.g. 10 acceleration and braking ramps, 3 program buttons, short function without continuous pressing of the key)
- > Extended rotor program (e.g. 5.0 mL rotor, swing-bucket rotor for PCR strips)
- > OptiBowl® design for quiet operation, even without a rotor lid
- > Soft-touch one-finger lid closure for ergonomic operation
- > Automatic lid opening at the end of the run – prevents sample warming and allows easy access to samples (can be deactivated)
- > Max. rotor capacity: 10 x 5.0 mL vessels
- > Max. speed: 21,300 x g (15,060 rpm)



### Ordering information

Description	Order no.
<b>Keypad</b>	
Centrifuge 5425, non-refrigerated, without rotor, keypad, 230 V/50 – 60 Hz	5405 000 310
Centrifuge 5425, non-refrigerated, with Rotor FA-24x2, keypad, 230 V/50 – 60 Hz	5405 000 115
<b>Rotary knobs</b>	
Centrifuge 5425, non-refrigerated, without rotor, rotary knobs, 230 V/50 – 60 Hz	5405 000 719
Centrifuge 5425, non-refrigerated, with Rotor FA-24x2, rotary knobs, 230 V/50 – 60 Hz	5405 000 514

# Rotors Centrifuge 5425



### Rotor FA-24x2

- > Max. speed: 21,300 × *g* (15,060 rpm)
- > Max. capacity: 24 × 1.5/2.0 mL tubes
- > Aerosol-tight with Eppendorf QuickLock® lid



### Rotor FA-24x2-PTFE

- > Max. speed: 21,300 × *g* (15,060 rpm)
- > Max. capacity: 24 × 1.5/2.0 mL tubes
- > Aerosol-tight with Eppendorf QuickLock® lid
- > PTFE coating for increased chemical resistance



### Rotor FA-10x5

- > Max. speed: 21,300 × *g* (15,060 rpm)
- > Max capacity: 10 × Eppendorf Tubes® 5.0 mL
- > Aerosol-tight with Eppendorf QuickLock® lid



### Rotor FA-18x2-Kit

- > Max. speed: 18,565 × *g* (15,060 rpm)
- > Rotor with higher edge for safe centrifugation of up to 18 spin columns
- > Aerosol-tight with Eppendorf QuickLock® lid



### Rotor F-32x0.2-PCR

- > Max. speed: 18,134 × *g* (15,060 rpm)
- > for 4 × PCR strips or 32 × PCR tubes (0,2 mL)



### Rotor 96x0.2-PCR

- > Max. speed: 3,217 × *g* (6,000 rpm)
- > New swing bucket rotor
- > for 12 × 8 PCR strips 0.1/0.2 mL or 4 × 1/4 twin.tec PCR plate 96, unskirted divisible or 96 × PCR tubes with 0.2 mL

## Ordering information

Description	Order no.
<b>Rotor FA-24x2</b> , aerosol-tight, for 24 × 1.5/2.0 mL tubes, incl. aerosol-tight rotor lid	5495 500 006
<b>Rotor FA-24x2-PTFE</b> , aerosol-tight, with PTFE coating, for 24 × 1.5/2.0 mL tubes, incl. aerosol-tight rotor lid	5495 503 005
<b>Rotor FA-10x5</b> , aerosol-tight, for 10 × 5.0 mL tubes (snap and screw cap), incl. aerosol-tight rotor lid	5495 505 008
<b>Rotor FA-18x2-Kit</b> , aerosol-tight, for 18 × 1.5/2.0 mL tubes or spin columns, incl. aerosol-tight rotor lid	5495 508 007
<b>Rotor F-32x0.2-PCR</b> , for 32 × 0.2 mL PCR tubes or 4 × 8 PCR strips, incl. rotor lid	5495 510 001
<b>Rotor S-96x0.2-PCR</b> , for 96 × 0.2 mL PCR tubes or 12 × 8 PCR strips, incl. buckets	5495 512 004
<b>Adapter</b> , for 1 tube 0.5 mL or BD microtainer®, max. Ø 8 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 716 001
<b>Adapter</b> , for 1 PCR tube 0.2 mL, max. Ø 6 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 715 005
<b>Adapter</b> , for 1 vessel 1.5 – 2.0 mL, for all 5.0 mL rotors, set of 4 pcs.	5820 768 002
<b>Adapter</b> , for 1 cryo tube, for all 5.0 mL rotors, set of 4 pcs.	5820 769 009
<b>Adapter</b> , for 1 HPLC tube, for all 5.0 mL rotors, set of 4 pcs.	5820 770 007
<b>Adapter</b> , for 1 tube 0.4 mL, max. Ø 6 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 717 008

# Centrifuge 5427 R

## High-throughput refrigerated 48-place microcentrifuge for temperature sensitive samples.

The refrigerated Centrifuge 5427 R was designed for high-throughput research applications. With its aerosol-tight 48-place rotor it handles even the toughest challenges in a safe and reliable manner to provide you the efficiency boost you need.

### Product features

- > Capacity: 48 x 1.5/2.0 mL, 12 x 5.0 mL
- > Speed up to 25,000 x g (16,220 rpm)
- > High-capacity 48-place rotor
- > Aerosol-tight Eppendorf QuickLock® rotor lids allow for fast and ergonomic lid locking
- > Quiet operation due to optimized sound design
- > Soft-touch one-finger closure for ergonomic operation
- > Temperature control range from -10 °C to 40 °C
- > FastTemp pro® program optimized for fast 11 min pre-cooling
- > ECO shut-off can be programmed to engage after 1, 2, 4, or 8 hours of nonuse for energy savings up to 88 % and extended compressor life



### Ordering information

Description	Order no.
<b>Rotary knobs</b>	
Centrifuge 5427 R, refrigerated, without rotor, rotary knobs, 230 V/50 – 60 Hz	5409 000 010
Centrifuge 5427 R, refrigerated, with Rotor FA-45-12-17, rotary knobs, 230 V/50 – 60 Hz	5409 000 630
Centrifuge 5427 R, refrigerated, with Rotor FA-45-30-11, rotary knobs, 230 V/50 – 60 Hz	5409 000 530
Centrifuge 5427 R, refrigerated, with Rotor FA-45-48-11, rotary knobs, 230 V/50 – 60 Hz	5409 000 210

## Rotors for Centrifuge 5427 R



### Rotor F-45-48-11

- > Max. speed: 18,210 x g (12,700 rpm)
- > Max. capacity: 48 x 1.5/2.0 mL tubes



### Rotor FA-45-48-11

- > Max. speed: 18,210 x g (12,700 rpm)
- > Max. capacity: 48 x 1.5/2.0 mL tubes
- > Aerosol-tight with Eppendorf QuickLock® lid



### Rotor FA-45-30-11

- > Max. speed: 20,800 x g (14,000 rpm)
- > Max. capacity: 30 x 1.5/2.0 mL tubes
- > Aerosol-tight with Eppendorf QuickLock® lid

**Rotor F-45-30-11**

- > Max. speed: 20,800 × *g* (14,000 rpm)
- > Max. capacity: 30 × 1.5/2.0 mL tubes

**Rotor FA-45-24-11**

- > Max. speed: 25,000 × *g* (16,220 rpm)
- > Max. capacity: 24 × 1.5/2.0 mL tubes
- > Aerosol-tight with Eppendorf QuickLock® lid

**Rotor FA-45-24-11-Kit**

- > Max. speed: 19,100 × *g* (13,200 rpm)
- > Rotor with higher edge for safe centrifugation of up to 24 spin columns
- > Aerosol-tight with Eppendorf QuickLock® lid

**Rotor S-24-11-AT**

- > Max. speed: 16,049 × *g* (12,700 rpm)
- > Swing-bucket rotor for 24 × 1.5/2.0 mL tubes
- > Aerosol-tight with Eppendorf QuickLock® lid
- > Perfect for phase-separation applications such as phenol-chloroform extraction

**Rotor FA-45-12-17**

- > Max. speed: 20,600 × *g* (14,000 rpm)
- > Max capacity: 12 × Eppendorf Tubes® 5.0 mL
- > Aerosol-tight with Eppendorf QuickLock® lid

**Rotor F-45-48-5-PCR**

- > Max. speed: 11,710 × *g* (10,500 rpm)
- > PCR strip rotor for up to 48 × 0.2 mL PCR tubes

**Ordering information**

Description	Order no.
<b>Rotor FA-45-48-11</b> , aerosol-tight, incl. rotor lid	5409 710 001
<b>Rotor F-45-48-11</b> , incl. rotor lid	5409 712 004
<b>Rotor FA-45-30-11</b> , aerosol-tight, incl. rotor lid	5409 706 004
<b>Rotor F-45-30-11</b> , incl. rotor lid	5409 708 007
<b>Rotor FA-45-24-11</b> , aerosol-tight, incl. rotor lid	5409 702 009
<b>Rotor FA-45-24-11-Kit</b> , aerosol-tight, incl. rotor lid	5409 704 001
<b>Rotor S-24-11-AT</b> , aerosol-tight, incl. wind shield and rotor lid	5409 715 003
<b>Rotor F-45-48-5-PCR</b>	5409 714 007
<b>Rotor FA-45-12-17</b> , aerosol-tight, incl. rotor lid, for 12 × Eppendorf Tubes® 5.0 mL	5409 700 006
<b>Adapter</b> , for 1 tube 0.5 mL or BD microtainer®, max. Ø 8 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 716 001
<b>Adapter</b> , for 1 PCR tube 0.2 mL, max. Ø 6 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 715 005
<b>Adapter</b> , for 1 vessel 1.5 – 2.0 mL, for all 5.0 mL rotors, set of 4 pcs.	5820 768 002
<b>Adapter</b> , for 1 cryo tube, for all 5.0 mL rotors, set of 4 pcs.	5820 769 009
<b>Adapter</b> , for 1 HPLC tube, for all 5.0 mL rotors, set of 4 pcs.	5820 770 007
<b>Adapter</b> , for 1 tube 0.4 mL, max. Ø 6 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 717 008

# Centrifuge 5430/5430 R

**Crossover microcentrifuges with small footprint and great versatility. Refrigerated for temperature sensitive samples or non-refrigerated.**

Centrifuge 5430 and 5430 R combine the dimensions of a microcentrifuge with the application range of a multipurpose centrifuge in one instrument: 12 rotor options including rotor for 15 and 50 mL conical tubes, 30-place high speed rotor and swing-bucket rotor for MTPs or DWPs.

## Product features

- > Capacity: 48 x 1.5/2.0 mL, 6 x 50 mL, 2 x MTP
- > Speed up to 30,130 x *g* (17,500 rpm)
- > Soft-touch closure for ergonomic operation
- > Menu-driven, multi lingual operation menu (English, German, French, Spanish) with large backlit display
- > Saves up to 50 user-defined programs – 5 program keys for easy access to routine programs

## Additional features of refrigerated Model 5430 R

- > Temperature control range from –11 °C to 40 °C
- > FastTemp pro® control program for fast pre-cooling and maximum temperature accuracy inside the rotor
- > ECO shut-off can be programmed to engage after 1, 2, 4, or 8 hours of nonuse for up to 84 % energy savings and extended compressor life



## Ordering information

Description	Order no.
<b>Keypad</b>	
Centrifuge 5430, non-refrigerated, without rotor, keypad, 230 V/50 – 60 Hz	5427 000 015
Centrifuge 5430, non-refrigerated, with Rotor FA-45-30-11 incl. rotor lid, keypad, 230 V/50 – 60 Hz	5427 000 210
Centrifuge 5430 R, refrigerated, without rotor, keypad, 230 V/50 – 60 Hz	5428 000 205
Centrifuge 5430 R, refrigerated, with Rotor FA-45-30-11 and rotor lid, keypad, 230 V/50 – 60 Hz	5428 000 010
<b>Rotary knobs</b>	
Centrifuge 5430, non-refrigerated, without rotor, rotary knobs, 230 V/50 – 60 Hz	5427 000 610
Centrifuge 5430, non-refrigerated, with Rotor FA-45-30-11 incl. rotor lid, rotary knobs, 230 V/50 – 60 Hz	5427 000 415
Centrifuge 5430 R, refrigerated, without rotor, rotary knobs, 230 V/50 – 60 Hz	5428 000 610
Centrifuge 5430 R, refrigerated, with Rotor FA-45-30-11 and rotor lid, rotary knobs, 230 V/50 – 60 Hz	5428 000 410

# Rotors for Centrifuge 5430/5430 R



## Rotor FA-45-48-11

- > Max. speed:  $18,210 \times g$  (12,700 rpm)
- > Max. capacity:  $48 \times 1.5/2.0$  mL tubes
- > Aerosol-tight for safe centrifugation of hazardous samples
- > Eppendorf QuickLock® lid takes repetitive stress off your wrist



## Rotor F-45-48-11

- > Max. speed:  $18,210 \times g$  (12,700 rpm)
- > Max. capacity:  $48 \times 1.5/2.0$  mL tubes



## Rotor S-24-11-AT

- > Max. speed:  $16,049 \times g$  (12,700 rpm)
- > Swing-bucket rotor for  $24 \times 1.5/2.0$  mL tubes
- > Aerosol-tight with Eppendorf QuickLock® lid
- > Perfect for phase-separation applications such as phenol-chloroform extraction



## Rotor FA-45-16-17

- > Max. speed:  $21,191 \times g$  (14,200 rpm)
- > Max. capacity:  $16 \times$  Eppendorf Tubes® 5.0 mL
- > Aerosol-tight for safe centrifugation of hazardous samples
- > Eppendorf QuickLock® lid takes repetitive stress off your wrist
- > Eppendorf Tubes® 5.0 mL with screw caps only can use up half (8  $\times$ ) of the places in the rotor



## Rotor FA-45-30-11

- > Max. speed:  $20,817 \times g$  (14,000 rpm)
- > Max. capacity:  $30 \times 1.5/2.0$  mL tubes
- > Aerosol-tight for safe centrifugation of hazardous samples
- > Eppendorf QuickLock® lid takes repetitive stress off your wrist
- > PTFE coating for increased chemical resistance



## > Rotor FA-45-24-11-Kit

- > Max. speed:  $19,090 \times g$  (13,200 rpm)
- > Rotor with higher edge for safe centrifugation of up to 24 spin columns
- > Aerosol-tight for safe centrifugation of hazardous samples
- > Eppendorf QuickLock® lid takes repetitive stress off your wrist



## Rotor F-45-30-11

- > Max. speed:  $20,817 \times g$  (14,000 rpm)
- > Max. capacity:  $30 \times 1.5/2.0$  mL tubes
- > PTFE coating for increased chemical resistance



## Rotor FA-45-24-11-HS

- > Max. speed:  $30,130 \times g$  (17,500 rpm)
- > Max. capacity:  $24 \times 1.5/2.0$  mL tubes
- > Extremely fast separation results
- > Aerosol-tight for safe centrifugation of hazardous samples
- > Eppendorf QuickLock® lid takes repetitive stress off your wrist
- > PTFE coating for increased chemical resistance



## Rotor F-35-6-30

- > Max. speed:  $7,745 \times g$  (7,830 rpm)
- > Rotor for  $6 \times 15/50$  mL conical or  $12 \times$  BD Vacutainer® tubes



## Rotor A-2-MTP

- > Max. speed:  $2,204 \times g$  (4,680 rpm)
- > 2-place swing-bucket rotor for MTP, PCR and Deepwell Plates (max. height = 29 mm)
- > Windshield design for quiet operation



## Rotor F-45-64-5-PCR

- > Max. speed:  $13,543 \times g$  (11,800 rpm)
- > PCR strip rotor for up to  $64 \times 0.2$  mL PCR tubes



## Rotor F-45-18-17-Cryo

- > Max. speed:  $8,324 \times g$  (8,900 rpm)
- > 18-place rotor for Cryovial® tubes

# Rotors for Centrifuge 5430/5430 R

## Ordering information

Description	Order no.
<b>Rotor FA-45-16-17</b> , aerosol-tight, incl. rotor lid, for 16 × Eppendorf Tubes® 5.0 mL	5427 750 002
<b>Rotor FA-45-48-11</b> , aerosol-tight, incl. rotor lid	5427 754 008
<b>Rotor F-45-48-11</b> , incl. rotor lid	5427 755 004
<b>Rotor S-24-11-AT</b> , aerosol-tight, incl. rotor lid	5427 757 007
<b>Rotor FA-45-30-11</b> , aerosol-tight, incl. rotor lid	5427 753 001
<b>Rotor FA-45-24-11-Kit</b> , aerosol-tight, incl. rotor lid	5427 752 005
<b>Rotor F-45-30-11</b> , incl. rotor lid	5427 712 003
<b>Rotor FA-45-24-11-HS</b> , aerosol-tight, incl. rotor lid	5427 710 000
<b>Rotor F-35-6-30</b> , incl. rotor lid, with 6 adapters each for 15 mL/50 mL conical tubes	5427 716 009
<b>Rotor A-2-MTP</b> , incl. wind shield and rotor lid, with 2 buckets	5427 700 005
<b>Rotor F-45-64-5-PCR</b> , incl. rotor lid and adapters	5427 714 006
<b>Rotor F-45-18-17-Cryo</b> , incl. rotor lid and Cryovial® adapters	5427 705 007
<b>Adapter</b> , for 1 tube 0.5 mL or BD microtainer®, max. Ø 8 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 716 001
<b>Adapter</b> , for 1 PCR tube 0.2 mL, max. Ø 6 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 715 005
<b>Adapter</b> , for 1 cryo containers (max. Ø 13 mm) or lidded centrifugation tubes (Ø 12.2 mm), max. length 50 mm, for Rotor F-45-18-17-Cryo, set of 6 pcs.	5702 752 002
<b>Adapter</b> , for 1 vessel 1.5 – 2.0 mL, for all 5.0 mL rotors, set of 4 pcs.	5820 768 002
<b>Adapter</b> , for 1 cryo tube, for all 5.0 mL rotors, set of 4 pcs.	5820 769 009
<b>Adapter</b> , for 1 HPLC tube, for all 5.0 mL rotors, set of 4 pcs.	5820 770 007
<b>Adapter</b> , for 1 tube 0.4 mL, max. Ø 6 mm, for all 1.5/2.0 mL rotors, set of 6 pcs.	5425 717 008
<b>Adapter</b> , for 1 HPLC vessel 1.5 mL, for Rotor F-45-18-17-Cryo	5427 708 006

## Adapter options 6 x 15/50 mL conical tube rotor

Adapter	Rotor capacity <sup>3)</sup>	Max. tube dimensions Ø x L	Max. RCF	For bore hole	Order no. <sup>4)</sup>
13 mm round	12	13 × 65 – 89 mm	6,443 × g	small	5427 740 007
			6,100 × g	large	5427 742 000
13 mm round	12	13 × 90 – 110 mm	7,471 × g	small	5427 741 003
			7,129 × g	large	5427 743 006
16 mm round	12	16 × 75 – 105 mm	7,005 × g	small	5427 732 004
			7,005 × g	large	5427 734 007
17 mm round	12	17 × 90 – 125 mm	7,745 × g	small	5427 735 003
			7,403 × g	large	5427 738 002
Eppendorf Tubes® 5.0 mL		17.5 × 80 mm	6,237 × g	small	5427 746 005
			7,129 × g	large	5427 747 001
15 mL conical	6	17.5 × 100 – 125 mm	7,540 × g	small	5427 726 004
30 mL round	6	26 × 92 – 112 mm	7,087 × g	large	5427 736 000
50 mL round	6	29 × 95 – 125 mm	7,581 × g	large	5427 737 006
50 mL conical	6 <sup>1) 2)</sup>	29.5 × 100 – 125 mm	7,197 × g	large	5427 727 000
Centriprep®	6	29.5 × 100 – 125 mm	7,567 × g	large	5427 723 005

<sup>1)</sup> Three set of 2 included within 6 x 15/50 mL rotor package. <sup>2)</sup> Adapter accommodates skirted 50 mL conical tubes. <sup>3)</sup> Please perform a manual test to determine the actual loading capacity. <sup>4)</sup> Set of 2





# Eppendorf Handling Solutions

Liquid Handling  
Cell Handling  
Sample Handling

We have been developing and producing well sophisticated, groundbreaking products and solutions in the areas of Liquid Handling, Cell Handling and Sample Handling for more than 70 years. We always had one goal in mind: to make your job in the lab easier and more efficient.

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## Liquid Handling



In 1961, Eppendorf launched the first piston-stroke pipette. Today, our broad product offerings in Liquid Handling range from manual pipettes to electronic pipettes, dispensers and burettes to automated pipetting systems. Eppendorf products are associated with state-of-the-art technology, outstanding ergonomics and award-winning design. This applies to both devices and the requisite consumables such as pipette tips and Combitips®.



### ■ Multipipette® E3/E3x

A motor driven dispensing system that utilizes the positive displacement principle and is capable of accurately pipetting any liquid.

- > Eliminates time consuming volume calculations with auto Combitip recognition
- > One-button tip ejector for one handed operation and contact-free advanced ejection



### ■ Combitips advanced®

Combitips advanced have been completely redesigned and optimized to meet all the needs of any modern laboratory.

- > The 9 volume sizes (0.1 mL – 50 mL) offer a maximum range of dispensing volumes
- > High-precision dispensing regardless of the physical properties of the liquid



### ■ epMotion® 96 /96xl

The epMotion 96 and 96xl are semi-automated electronic pipettes for fast and precise parallel 96 channel microplate processing.

- > Without changes to the system, a large volume range of 0.5 to 300 µL (epMotion 96) or 5 - 1000 µL (epMotion 96xl) is available
- > Performs 12 times faster than 8 channel pipettes



### ■ Eppendorf Xplorer®/Xplorer® plus

The Eppendorf Xplorer electronic pipettes are designed to eliminate many of potential error risks associated with manual pipetting.

- > Single, 8-, and 12-channel pipettes for liquid volumes from 0.5 µL to 10 mL
- > Intuitive operating concept for quick and easy work



### ■ Easyjet® 3

Experience a new dimension of electronic pipetting with complete speed control and the utmost precision.

- > Intuitive and convenient speed adjustment simply done with the tips of your fingers
- > Lightweight, well-balanced and ergonomic design that allows for fatigue-free pipetting



# Eppendorf Microcentrifuges



Model	MiniSpin®/MiniSpin® plus	5418 R	5420
<b>Positioning</b>	Space saving 12-place mini-centrifuge for quick spin downs even in the smallest workstation, non-refrigerated	Compact refrigerated 18-place microcentrifuge for temperature sensitive samples	Small footprint 24-place microcentrifuge for molecular biology routine applications, non-refrigerated
<b>Max. capacity</b>	12 × 1.5/2.0 mL	18 × 1.5/2.0 mL	24 × 1.5/2.0 mL
<b>Max. RCF</b>	12,100 × <i>g</i> /14,100 × <i>g</i>	16,873 × <i>g</i>	21,300 × <i>g</i>
<b>Max. speed</b>	13,400 rpm/14,500 rpm	14,000 rpm	15,060 rpm
<b>Rotors options</b>	2	1	2
<b>Temperature control range</b>		0 °C to 40 °C	
<b>Dimensions (W × D × H)</b>	22.5 × 23.0 × 13.0 cm/ 22.6 × 23.9 × 12.0 cm	30 × 46 × 25 cm	24 × 35 × 22 cm
<b>Height (with open lid)</b>	25 cm	52 cm	44 cm
<b>Weight w/o accessories</b>	3.7 kg	22 kg	13 kg
<b>Max. power consumption</b>	70 W/85 W	320 W	290 W
<b>Tube/plate/bottle capacity</b>			
1.5/2.0 mL Eppendorf Tubes®	12	18	24
Eppendorf Tubes® 5.0 mL	–	–	–
8-place PCR strips	2	–	4
15 mL conical tubes	–	–	–
25 mL conical tubes	–	–	–
50 mL conical tubes	–	–	–
13 mm round-bottom and blood collection tubes	–	–	–
16 mm round-bottom and blood collection tubes	–	–	–
17.5 mm round-bottom and blood collection tubes	–	–	–
PCR plates/MTP	–	–	–
Deepwell plates (DWP)	–	–	–

**5424 R**

Refrigerated 24-place standard microcentrifuge for temperature sensitive samples

24 × 1.5/2.0 mL

21,130 × *g*

15,000 rpm

4

-10 °C to 40 °C

29 × 48 × 26 cm

51 cm

21 kg

350 W

24

–

4

–

–

–

–

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–

–

–

–

**5425**

Whisper quiet 24-place standard microcentrifuge with outstanding feature set for broad range of applications, non-refrigerated

10 × 5.0 mL

21,300 × *g*

15,060 rpm

6

–

24 × 39 × 24 cm

48 cm

15.6 kg

280 W

24

10

12

–

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**5427 R**

High-throughput refrigerated 48-place microcentrifuge for temperature sensitive samples

48 × 1.5/2.0 mL

25,000 × *g*

16,220 rpm

9

-11 °C to 40 °C

31.9 × 54.0 × 25.4 cm

–

30 kg

550 W

48

12

6

–

–

–

–

–

–

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–

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**5430/5430 R**

Crossover microcentrifuge with multipurpose versatility and 12 rotor options including rotor for 15 and 50 mL conical tubes, 30-place high speed rotor and swing-bucket rotor for MTPs or DWPs, refrigerated for temperature sensitive samples or non-refrigerated

48 × 1.5/2.0 mL, 6 × 50 mL, 2 × MTP

30,130 × *g*

17,500 rpm

12

-11 °C to 40 °C

33 × 42 × 25 cm/38 × 64 × 29 cm

56 cm/63 cm

29 kg/56 kg

475 W/1,050 W

48

16

8

6

6

6

12

12

12

2

2

2

# Eppendorf Family Centrifuges

## Eppendorf Microcentrifuges



Model	MiniSpin®	MiniSpin® plus	5418 R	5420	5424 R	5425	5427 R	5430	5430 R
<b>Positioning</b>	Space saving 12-place mini-centrifuge		Compact refrigerated 18-place micro-centrifuge	Small footprint 24-place micro-centrifuge	Refrigerated 24-place standard micro-centrifuge	Whisper quiet 24-place standard micro-centrifuge	High throughput refrigerated 48-place micro-centrifuge	Crossover microcentrifuge with multipurpose versatility	
<b>Max. capacity</b>	12 x 1.5/2.0 mLx		18 x 1.5/2.0 mL	24 x 1.5/2.0 mL	24 x 1.5/2.0 mL	10 x 5.0 mL	48 x 1.5/2.0 mL	48 x 1.5/2.0 mL, 6 x 50 mL, 2 x MTP	
<b>Max. RCF</b>	12,100 x g	14,100 x g	16,873 x g	21,300 x g	21,130 x g	21,300 x g	25,000 x g	30,130 x g	
<b>Max. speed</b>	13,400 rpm	14,500 rpm	14,000 rpm	15,060 rpm	15,000 rpm	15,060 rpm	16,220 rpm	17,500 rpm	
<b>Rotor options</b>	2		1	2	4	6	9	12	
<b>Temperature control range</b>			0 °C to 40 °C		-10 °C to 40 °C		-11 °C to 40 °C		-11 °C to 40 °C
<b>Ordering no.</b>	5452 000 010	5453 000 015	5401 000 010	5420 000 113	5404 000 610	5405 000 719	5409 000 010	5427 000 610	5428 000 610

## Eppendorf Multipurpose Centrifuges



Model	5702	5702 R	5702 RH	5804	5804 R	5810	5810 R	5910 R	5920 R
<b>Positioning</b>	Low speed multipurpose centrifuge with medium capacity for clinical research and cell culture labs			High speed multipurpose centrifuge with medium capacity		Compact multipurpose centrifuge with medium capacity		Super versatile multipurpose centrifuge with high capacity	High-throughput multipurpose centrifuge with very high capacity
<b>Max. Capacity</b>	4 x 100 mL			4 x 250 mL		4 x 750 mL		4 x 1,000 mL	4 x 1,000 mL
<b>&gt; Conical tubes</b>	20 x 15 mL/4 x 50 mL			40 x 15 mL/16 x 50 mL		56 x 15 mL/28 x 50 mL		64 x 15 mL/36 x 50 mL	108 x 15 mL/52 x 50 mL
<b>&gt; Blood collection tubes</b>	36 x 13 mm/30 x 16 mm			56 x 13 mm/52 x 16 mm		100 x 13 mm/80 x 16 mm		120 x 13 mm/104 x 16 mm	196 x 13 mm/148 x 16 mm
<b>&gt; Plates</b>	-			10 x MTP/2 x DWP		16 x MTP/4 x DWP		20 x MTP/4 x DWP	28 x MTP/8 x DWP
<b>Max. RCF</b>	3,000 x g			20,913 x g		20,913 x g		22,132 x g	21,194 x g
<b>Max. speed</b>	4,400 rpm			14,000 rpm		14,000 rpm		14,000 rpm	13,700 rpm
<b>Rotor options</b>	6			12		18		10	9
<b>Temperature control range</b>	-	-9 °C to 40 °C		-	-9 °C to 40 °C		-	-9 °C to 40 °C	
<b>Ordering no.</b>	5702 000 010	5703 000 010	5704 000 010	5804 000 010	5805 000 010	5810 000 010	5811 000 015	5942 000 010	5948 000 010

Technical specifications subject to change. Errors and omissions excepted.

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