



# Endless Possibilities

Eppendorf Microcentrifuges



# Meet the next generation in microcentrifugation

We introduced our very first centrifuge in 1964 as an integral part of the Eppendorf Microliter System, and revolutionized life science research practices worldwide. To this day, the Eppendorf name remains synonymous with innovative design, technology and performance that stand the test of time.

The Eppendorf approach to product development is about listening to our customer's needs, understanding daily laboratory routines and anticipating future trends. The result is a comprehensive line of microcentrifuges that serve the multiple applications you encounter in your lab—whether you just have to spin a few tubes at a time or need the extra versatility for handling plates and larger volume tubes directly on your lab bench.

Our goal is to provide you with a product solution that not only leaves you thoroughly satisfied but that is also fun to work with. That is why 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.

In addition, with their outstanding quality, Eppendorf microcentrifuges provide you a safe and cost efficient solution for your lab.

With this sound fundamental experience Eppendorf is proud to serve you as your expert partner in microcentrifugation.

# The benchmark in ergonomic operation

To make your daily routines faster and easier we strongly focus on the ergonomic aspects of our products. Today Eppendorf microcentrifuges set the standards in terms of design and user-friendliness. These key success factors have also been awarded the “excellent! Universal Design” certificate of the TÜV Nord organization.



## Virtually silent operation

Eppendorf centrifuges are designed for whisper quiet operation to benefit your work environment—you can work right next to them while they are running. Our unique OptiBowl® design also allows for virtually silent operation without the rotor lid.



## Soft-touch lid closure

All our centrifuges 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.



## Intuitive operation

Large, full-digit displays and intuitively labeled keys make operation super simple—even if you don't use the centrifuge on a daily basis.




## Eppendorf QuickLock® rotors

Our aerosol-tight Eppendorf QuickLock rotors close with only ¼ of a turn. This not only saves you time during every day use, it also takes repetitive stress off your wrist.

# Superior temperature management

Eppendorf's commitment is to provide you centrifuges that offer the cooling performance you need for successful experiments. Our refrigerated Microcentrifuges are best in class when it comes to energy efficiency and sample protection. But that's not all: Non-refrigerated Centrifuge 5424 features a unique cooling concept. Instead of ventilating air directly through the rotor bowl we use fans to guide air around the outside of the rotor chamber where specially designed cooling fins ensure an optimal heat exchange to minimize sample warming. The additional benefits: The lid of Centrifuge 5424 seals the rotor chamber which leads to a significant noise reduction and prevents particles from being blown into the lab environment.



**Compressor at the back**  
> Saves you valuable bench space and keeps the profile low for ergonomic operation and easy opening under low hanging shelves

**Patented, dynamic compressor control (DCC)**  
> DCC allows more efficient usage of the compressor for better temperature accuracy inside the rotor. The result: Energy efficient cooling and maximum sample protection.

**ECO shut off**  
> Engages after 8 hours of nonuse to reduce energy consumption and extend compressor life (can be deactivated) which saves up to 47 % energy overnight

**Aluminum rotors**  
> Their high heat conductivity allows fast pre-cooling and accurate temperature control

**FastTemp™ pre-cooling function**  
> Allows for fast pre-cooling and maximum temperature accuracy inside the rotor. Centrifuge 5430 R offers unique FastTemp<sup>PRO</sup> for automated precooling.

**Condensation drain**  
> The built-in condensation drain eliminates water accumulation and prevents corrosion

»Our Eppendorf microcentrifuges provide exactly what we expect. Not only speed and cooling performance, but also ease of use and a quality that is second to none! Thus they significantly increase our efficiency and give us more time to focus on our research. «

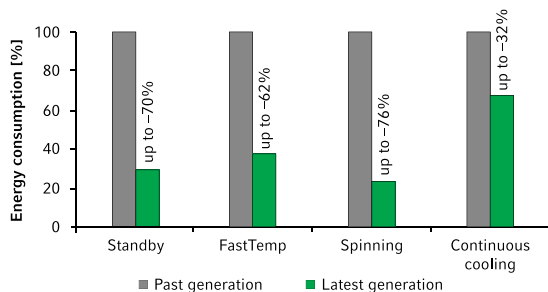
Dr. Per Hoffmann  
Institute for Human Genetics  
Biomedical Center,  
Bonn, Germany



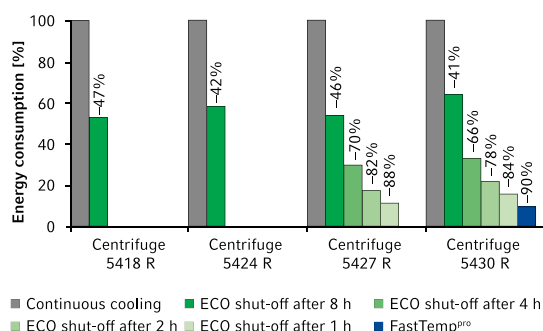
## Energy saving right from the start



Save energy with every new generation of Eppendorf centrifuges



Energy savings overnight with ECO shut-off and FastTemp<sup>PRO</sup>



As a commitment to the environment and future generations we constantly look for ways to improve the eco-friendliness of our products. This already started many years ago when we switched all our refrigerated models to CFC-free refrigerants with zero ozone depletion potential. We continue to further reduce energy consumption of our centrifuges by optimizing motor systems, building lighter weight rotors, and using highly efficient compressor systems. All our centrifuges follow our epGreen philosophy by providing several eco-friendly product features—for example:

- > Use of highly efficient, brushless induction motors
- > Unique ECO shut-off deactivates the compressor after 1 to 8 hours of nonuse for up to 84 % energy savings
- > FastTemp<sup>PRO</sup> (Model 5430 R) allows for automated pre-cooling based on preprogrammable time and date which saves up to 90 % of energy (see page 13 for more details)
- > Rotors made of 100 % recyclable aluminum
- > Recyclable packaging material





# MiniSpin®/MiniSpin plus™

## Entry-level centrifuges

Powerful and easy-to-use MiniSpin and MiniSpin plus microcentrifuges are small enough so that each workstation can be equipped with a “personal” centrifuge. Two models are available to meet your performance requirements. MiniSpin plus provides speed sufficient for molecular applications.

## Product features

- > Capacity: 12 x 1.5/2.0 mL, 2 x PCR strip
- > Speed up to 12,100/14,100 x *g* (13,400/14,500 rpm)
- > Extremely compact footprint ideal for training labs or individual work stations
- > Digital display for reproducible setting of time and speed
- > Rotor, inner centrifuge lid and lid latch are made of metal for maximum operational safety and compliance to IEC 1010-2-020 safety regulations
- > 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

## Ordering information

Description	Catalog No.
MiniSpin, with 12 x 1.5/2.0 mL rotor, 120 V	022620100
MiniSpin plus, with 12 x 1.5/2.0 mL rotor, 120 V	022620207
Rotor 2 x PCR-strip, with lid (F-55-16-5-PCR)	022665821

All listed models are 120 V/50–60 Hz. Please inquire for 230 V/50–60 Hz versions.



# Centrifuge 5418/5418 R

## Medium capacity for molecular biology

Centrifuges 5418 and 5418 R with their 18-place capacity rotors are specifically designed for low to medium capacity in 1.5/2.0 mL tubes and Microtainers®. Their speed of up to 16,873 x g allows for standard molecular biology and clinical applications.

## Product features

- > Capacity: 18 x 1.5/2.0 mL
- > Speed up to 16,873 x 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

## Additional features of refrigerated Centrifuge 5418 R

- > Temperature 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)
- > Built-in condensation drain to eliminate water accumulation

## Ordering information

Description	Catalog No.
<b>Centrifuge 5418</b>	
with 18 x 1.5/2.0 mL aerosol-tight QuickLock rotor, 120 V	022620304
<b>Centrifuge 5418 R (refrigerated)</b>	
with 18 x 1.5/2.0 mL aerosol-tight QuickLock rotor, 120 V	5401000137

All listed models are 120 V/50–60 Hz. Please inquire for 230 V/50–60 Hz versions.



# Centrifuge 5424/5424 R

## The laboratory standard

Centrifuge 5424 and 5424 R are the new laboratory standard. With their 24-place capacity and speed up to 21,130 x *g* they are perfectly equipped for all modern molecular biology applications in Eppendorf and PCR tubes. When working with MiniPrep spin column kits — the unique Eppendorf Kit rotor® with raised rim solves the issue of open tube caps shearing off during the elution step.

Refrigerated Centrifuge 5424 R features state of the art cooling technology to ensure energy efficiency and high temperature accuracy for maximum sample protection. For ease-of-operation and time savings, Centrifuge 5424 R cools down to 4°C in only 8 minutes.

## 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 whisper quiet operation without rotor lid to benefit your work environment
- > Soft-touch one-finger closure for ergonomic operation
- > Automatic lid opening at the end of the run—prevents sample warming and allows easy access to samples
- > Available as a rotary knob version for fast parameter selection, or keypad version for easy cleaning

## Additional features of refrigerated Model 5424 R

- > Temperature range from -10°C to 40°C
- > Super fast 8 min FastTemp pre-cooling
- > ECO shut-off engages after 8 hours of nonuse to reduce energy consumption (42 % overnight) and extend compressor life (can be deactivated in menu)
- > Built-in condensation drain to eliminate water accumulation



> Watch video clips of Centrifuge 5424 and Centrifuge 5424 R on our dedicated website for mobile devices or [www.eppendorf.com/centrifugation](http://www.eppendorf.com/centrifugation)





**Aerosol-tight rotor for 24 x 1.5/2.0 mL tubes** provides speed up to 21,130 x *g*/15,000 rpm. The rotor is certified aerosol-tight for safe centrifugation of hazardous samples (FA-45-24-11; Catalog No. 022653008).



**Eppendorf Kit rotor for 18 x spin columns and 1.5/2.0 mL tubes** with speed up to 18,111 x *g*/15,000 rpm. This rotor is designed with an extended rim that protects tube caps from shearing off (FA-45-18-11-Kit; Catalog No. 022653083).



**Aerosol-tight rotor for 24 x 1.5/2 mL tubes with PTFE-coating** for high chemical resistance and easy cleaning. Provides speed up to 21,130 x *g*/15,000 rpm (FA-45-24-11-Special; Catalog No. 022653041).



**4 x PCR-strip rotor** for centrifugation up to 18,615 x *g*/15,000 rpm (F-45-32-5-PCR; Catalog No. 022653121).

#### Ordering information

Description	Catalog No. Knob	Catalog No. Keypad
<b>Centrifuge 5424</b>		
with 24 x 1.5/2.0 mL aerosol-tight rotor, 120 V	022620401	022620444
without rotor, 120 V	022620487	022620498
<b>Centrifuge 5424 R (refrigerated)</b>		
with 24 x 1.5/2.0 mL aerosol-tight rotor, 120 V	5404000537	5404000138
without rotor, 120 V	5404000731	5404000332

All listed models are 120 V/50–60 Hz. Please inquire for 230 V/50–60 Hz versions.



# Centrifuge 5427 R

## High-throughput refrigerated microcentrifuge

Centrifuge 5427 R was designed with high-throughput research applications in mind. 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. All aerosol-tight rotors, including the new rotors for 5.0 mL Eppendorf tubes as well as the 24 x 1.5/2 mL swing-bucket rotor, are equipped with Eppendorf QuickLock lids for easy rotor lid opening and closing.

Choose the Centrifuge 5427 R if a 24-place microcentrifuge (e.g., our Centrifuge 5424 R) doesn't meet your needs regarding tube capacity and if you don't need the extra versatility our cross-over Centrifuge 5430 R can offer you.

## 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 significantly increases productivity to save you valuable time
- > Aerosol-tight Eppendorf QuickLock rotor lids allow for fast and ergonomic lid locking.
- > Whisper quiet operation due to optimized sound design
- > Soft-touch one-finger closure for ergonomic operation
- > Temperature range from -10°C to 40°C
- > FastTemp 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 (see page 5 for more details)
- > Built-in condensation drain to eliminate water accumulation



> Watch video clips of Centrifuge 5427 R on our dedicated website for mobile devices or [www.eppendorf.com/centrifugation](http://www.eppendorf.com/centrifugation)



**Aerosol-tight Eppendorf QuickLock rotor for 48 x 1.5/2.0 mL tubes** provides speed up to 18,210 x *g*/12,700 rpm (FA-45-48-11; Catalog No. 5409710001).

Also available with basic plastic lid (F-45-48-11; Catalog No. 5409712004).



**Aerosol-tight Eppendorf QuickLock rotor for 30 x 1.5/2.0 mL tubes** provides speed up to 20,800 x *g*/14,000 rpm (FA-45-30-11; Catalog No. 5409706004).

Also available with basic plastic lid (F-45-30-11; Catalog No. 5409708007).



**Aerosol-tight Eppendorf QuickLock rotor for 24 x 1.5/2.0 mL tubes** provides speed up to 25,000 x *g*/16,220 rpm (FA-45-24-11; Catalog No. 5409702009).



**Aerosol-tight Eppendorf QuickLock swing-bucket rotor for 24 x 1.5/2.0 mL tubes** spins up to 16,050 x *g*/12,700 rpm. Swing-bucket design is ideal for phase separation or to collect pellets at the bottom of the tube (S-24-11-AT; Cat. No. 5409715003).



**Aerosol-tight Eppendorf QuickLock Kit rotor for 24 x spin columns and 1.5/2.0 mL tubes.** Designed with an extra high rim to support open tube lids during centrifugation. Spins at max. 19,100 x *g*/13,200 rpm (FA-45-24-11-Kit; Catalog No. 5409704001).



**6 x PCR strip rotor** with speed up to 11,710 x *g*/10,500 rpm (F-45-48-5-PCR; Catalog No. 5409714007).



**Aerosol-tight QuickLock rotor for 12 x 5.0 mL Eppendorf tubes** provides speed up to 20,600 x *g*/14,000 rpm (FA-45-12-17; Catalog No. 5409700006).

Adapters for smaller tubes available:

- > 1.5/2.0 mL, pk/4 – Catalog No. 5820768002
- > Cryotubes, pk/4 – Catalog No. 5820769009
- > HPLC vials, pk/4 – Catalog No. 5820770007

#### Ordering information

Description	Catalog No.
<b>Centrifuge 5427 R</b>	
with 48 x 1.5/2.0 mL aerosol-tight QuickLock rotor, 120 V	022620700
with 30 x 1.5/2.0 mL aerosol-tight QuickLock rotor, 120 V	022620701
with 24 x 1.5/2.0 mL aerosol-tight QuickLock rotor, 120 V	022620702
with 24 x 1.5/2.0 mL swing-bucket aerosol-tight QuickLock rotor, 120 V	022620703
with 12 x 5.0 mL aerosol-tight QuickLock rotor, 120 V	022620704
without rotor, 120 V	5409000136

All listed models are 120 V/50–60 Hz. Please inquire for 230 V/50–60 Hz versions.



# Centrifuge 5430/5430 R

## Microcentrifuge with multipurpose capabilities

Unique cross-over Centrifuges 5430 and 5430 R combine the best features of a microcentrifuge (small footprint) and multipurpose centrifuge (versatility) in one instrument. These centrifuges spin rotors for Eppendorf tubes and PCR strips as you would expect from any microcentrifuge. But that's not all. In a compact size, Centrifuges 5430 and 5430 R also accommodate a fixed-angle rotor for 15/50 mL conical tubes, Vacutainer®, 10 to 50 mL OakRidge tubes, cryo and HPLC vials as well as a swingbucket rotor for MTP and PCR plates. Until now, this has only been possible with large multipurpose centrifuges.

## 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)
- > Compact footprint (W x D: 13 x 16 in/15 x 25 in)
- > 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
- > Available as a rotary knob version for fast parameter selection, or keypad version for easy cleaning

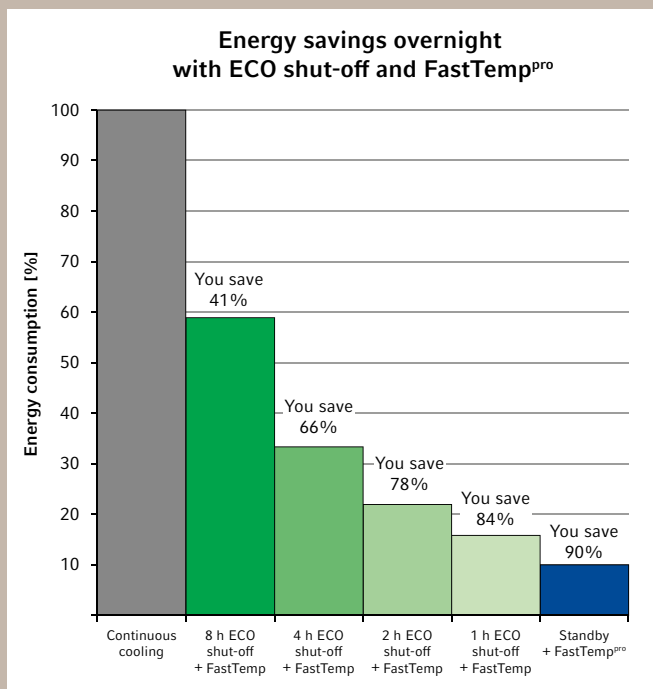
## Additional features of refrigerated Model 5430 R

- > Temperature range from -11 °C to 40 °C
- > FastTemp 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
- > Built-in condensation drain to eliminate water accumulation



# Easy pre-cooling with FastTemp<sup>pro</sup>

In addition to the standard FastTemp pre-cooling program Eppendorf Centrifuge 5430 R features a unique software option called FastTemp<sup>pro</sup>. This program allows for automated pre-cooling based on pre-programmable time and date. FastTemp<sup>pro</sup> can be set to a specific date or as a repetitive event during several days every week. Simply turn the centrifuge into standby mode when you leave your lab and let FastTemp<sup>pro</sup> take care of pre-cooling in the morning. This not only makes operation super easy, it also saves you up to 90 % of energy over night.



## Up to 90 % energy savings with FastTemp<sup>pro</sup>

Energy savings of ECO shut-off (with 8, 4, 2, and 1 hour setting) and FastTemp<sup>pro</sup> compared to continuous overnight cooling (17 hours).

### Ordering information

Description	Catalog No. Knob	Catalog No. Keypad
<b>Centrifuge 5430</b>		
with 48 x 1.5/2.0 mL aerosol-tight QuickLock rotor, 120 V	022620515	022620513
with 30 x 1.5/2.0 mL aerosol-tight QuickLock rotor, 120 V	022620511	022620509
with 24 x Kit aerosol-tight QuickLock rotor, 120 V	022620557	022620541
with 16 x 5 mL aerosol-tight QuickLock rotor, 120 V	022620562	022620560
with 6 x 15/50 mL rotor, including adapters for 15 mL and 50 mL conical tubes, 120 V	022620580	022620576
with 2 x MTP/PCR plate rotor, 120 V	022620572	022620568
without rotor, 120 V	022620596	022620584
<b>Centrifuge 5430 R (refrigerated)</b>		
with 48 x 1.5/2.0 mL aerosol-tight QuickLock rotor, 120 V	022620625	022620603
with 30 x 1.5/2.0 mL aerosol-tight QuickLock rotor, 120 V	022620623	022620601
with 16 x 5 mL aerosol-tight QuickLock rotor, 120 V	022620642	022620638
with 6 x 15/50 mL rotor, including adapters for 15 mL and 50 mL conical tubes, 120 V	022620663	022620659
with 2 x MTP/PCR plate rotor, 120 V	022620656	022620645
without rotor, 120 V	022620689	022620667

All listed models are 120 V/50–60 Hz. Please inquire for 230 V/50–60 Hz versions.





# Versatility for your needs

## Rotors for Centrifuges 5430/5430 R



**Aerosol-tight Eppendorf QuickLock rotor for 48 x 1.5/2.0 mL tubes** spins up to 18,210 x g/12,700 rpm (FA-45-48-11; Catalog No. 5427754008<sup>1</sup>). Also available with basic plastic lid (F-45-48-11; Catalog No. 5427755004<sup>1</sup>).



**Aerosol-tight Eppendorf QuickLock rotor for 30 x 1.5/2.0 mL tubes** spins up to 20,817 x g/14,000 rpm (FA-45-30-11; Catalog No. 022654047). Also available with basic plastic lid (F-45-30-11; Catalog No. 022654004).



**Aerosol-tight high-speed rotor for 24 x 1.5/2.0 mL tubes** spins up to 30,130 x g/17,500 rpm for fast separation results. (FA-45-24-11-HS; Catalog No. 022654080).



**Aerosol-tight Eppendorf QuickLock swing-bucket rotor for 24 x 1.5/2.0 mL tubes** spins up to 16,050 x *g*/12,700 rpm. Ideal for phase separation or to collect a pellet at the bottom of the tube (S-24-11-AT; Catalog No. 5427757007<sup>1</sup>).



**Aerosol-tight Eppendorf QuickLock Kit rotor** for 24 x spin columns and 1.5/2.0 mL tubes. Designed with an extra high rim to support open tube lids during centrifugation. Spins at max. 19,090 x *g*/13,200 rpm (FA-45-24-11-Kit; Catalog No. 022654128).



**Aerosol-tight Eppendorf QuickLock rotor for 16 x 5.0 mL Eppendorf tubes** with speed up to 21,190 x *g*/14,200 rpm (FA-45-16-17; Catalog No. 5427750002<sup>1</sup>). Adapters for smaller tubes available:  
> 1.5/2.0 mL, pk/4 – Catalog No. 5820768002  
> Cryotubes, pk/4 – Catalog No. 5820769009  
> HPLC vials, pk/4 – Catalog No. 5820770007



**8 x PCR strip rotor** with removal adapters that can be used as a pipetting rack; maximum speed is 13,543 x *g*/11,800 rpm (F-45-64-5-PCR; Catalog No. 022654209, includes adapters).



**18-place rotor for Cryovials® and HPLC tubes.** Speed up to 8,324 x *g*/8,900 rpm (F-45-18-17-Cryo; Cat. No. 022654161 incl. cryo adapters). Additional adapters: HPLC vials, pk/18; Catalog No. 5427708006



**2-place swing-bucket rotor for MTP, PCR and deepwell plates** of up to 29 mm height; speed up to 2,204 x *g*/4,680 rpm. Windshield design for whisper quiet operation (A-2-MTP; Catalog No. 022654403).



**6 x 15/50 mL conical tube rotor** accommodates 12 x Vacutainer, 6 x 15 mL conical or 6 x 50 mL conical tubes. Max. speed of 7,815 x *g*/7,830 rpm (F-35-6-30; Catalog No. 022654306, includes adapters for 15 mL and 50 mL conical tubes).

#### Adapter options for rotor 6 x 15/50 mL

Adapter	Rotor capacity <sup>2</sup>	Tube Dimensions Ø x L (min-max)	Max. RCF	For bore hole	Catalog No. (set of 2)
13 mm round	12	13 x 65–89 mm	6,443 x <i>g</i>	Small	5427740007
				Large	5427742000
13 mm round	12	13 x 90–110 mm	7,471 x <i>g</i>	Small	5427741003
				Large	5427743006
16 mm round	12	16 x 75–105 mm	7,005 x <i>g</i>	Small	022654512
		16 x 90–105 mm	7,005 x <i>g</i>	Large	022654524
17 mm round	12	17 x 90–125 mm	7,745 x <i>g</i>	Small	022654538
				Large	022654545
5 mL Eppendorf Tube®	12	17.5 x 80 mm	6,237 x <i>g</i>	Small	5427746005
				Large	5427747001
15 mL conical	6	17.5 x 100–125 mm	7,540 x <i>g</i>	Small	022654365 <sup>3</sup>
30 mL round	6	26 x 92–112 mm	7,087 x <i>g</i>	Large	022654556
50 mL round	6	29 x 95–125 mm	7,581 x <i>g</i>	Large	022654567
50 mL conical <sup>4</sup>	6	29.5 x 100–125 mm	7,197 x <i>g</i>	Large	022654349 <sup>3</sup>
Centriprep®	6	29.5 x 100–125 mm	7,567 x <i>g</i>	Large	022654331

<sup>1</sup> Please note that a software upgrade is necessary to use this rotor in 5430/5430 R with serial numbers <16,000. This rotor cannot be used in 5430 (non-refrigerated) centrifuges with serial numbers below 10,000.

<sup>2</sup> Please perform a manual test to determine the actual loading capacity.

<sup>3</sup> Three sets of 2 are included within 6 x 15/50 mL rotor package.

<sup>4</sup> Adapter accommodates skirted 50 mL conical tubes.

# A system striving for perfection

Eppendorf has always listened to customers and worked together with them on improving existing work flows. Since 1964 Eppendorf is offering system solutions that make everyday lab routines faster and easier. Whether it is spinning down samples, transferring liquids,

storing samples at  $-80^{\circ}\text{C}$  or incubating them at up to  $100^{\circ}\text{C}$ , the perfect combination of Eppendorf instruments, Eppendorf Tubes®, plates and pipette tips will help you to excel your research and give you the best working experience possible.



High-speed centrifuge rotors and high centrifugation resistance of our tubes allow you to get your results even quicker.



Adapters for most common swing-bucket and fixed-angle rotors make it easy to integrate the Eppendorf tubes into existing centrifuges.



Optimized thermoblocks guarantee accurate temperature control and efficient mixing in Eppendorf ThermoMixer® and MixMate®.



For sample preparation and storage, we offer the ideal racks and boxes for our Eppendorf Tubes.



Broad range of pipettes from 0.1  $\mu\text{L}$  to 10 mL. The complementary set of epT.I.P.S.® allows for stress-free and contamination-free work.



A broad range of adapters makes the integration into our automated pipetting system epMotion® as easy as 1-2-3.



## Eppendorf Tubes 0.5/1.5/2.0 and 5.0 mL

### The perfect addition

Eppendorf Tubes combine all the experience from 50 years of constant improvement and development. The original Eppendorf Tube gives you outstanding stability during centrifugation, perfect sealing and evaporation protection. Trust in the original Eppendorf Tube because your samples deserve the best treatment!

> The NEW Eppendorf 5.0 mL System at [www.eppendorfna.com/5mlsystem](http://www.eppendorfna.com/5mlsystem)

### Product features

- > Hinged lid of Eppendorf Safe-Lock® tubes prevent accidental lid opening during incubation
- > High centrifugation resistance (up to 30,000 x g) prevents tube breakage
- > Precise lid sealing for lowest evaporation rates during storage
- > Manufactured free from slip agents, plasticizers and biocides—substances that have been shown to leach from plastic consumables into the sample and negatively affect assay results
- > Available in Protein and DNA/RNA LoBind quality to prevent sample loss when working with precious or low concentrated samples

### Ordering information

Eppendorf Tube	0.5 mL, Safe-Lock	1.5 mL, Safe-Lock	2.0 mL, Safe-Lock	5.0 mL <sup>3</sup>
<b>Eppendorf Quality</b>	022363611	022363204	022363352	0030119401
clear	500 pcs. (1 x pk/500)	500 pcs. (1 x pk/500)	500 pcs. (1 x pk/500)	200 pcs. (2 x pk/100)
<b>PCR clean<sup>1</sup></b>	022363719	022363212	022363344	0030119460
clear	500 pcs. (1 x pk/500)	500 pcs. (1 x pk/500)	500 pcs. (1 x pk/500)	200 pcs. (2 x pk/100)
<b>Eppendorf Biopur<sup>2</sup></b>	022600001	022600028	022600044	0030119479
clear	50 pcs. (50 x pk/1)	100 pcs. (100 x pk/1)	100 pcs. (100 x pk/1)	50 pcs. (50 x pk/1)
<b>Protein LoBind (PCR clean)<sup>1</sup></b>	022431064	022431081	022431102	0030108302
clear	100 pcs. (2 x pk/50)	100 pcs. (2 x pk/50)	100 pcs. (2 x pk/50)	100 pcs. (2 x pk/50)
<b>DNA LoBind (PCR clean)<sup>1</sup></b>	022431005	022431021	022431048	0030108310
clear	250 pcs. (5 x pk/50)	250 pcs. (5 x pk/50)	250 pcs. (5 x pk/50)	200 pcs. (4 x pk/50)

<sup>1</sup>PCR clean: Batch-certified free from DNA, DNase, RNase, and PCR inhibitors.

<sup>2</sup>Biopur: Batch-certified sterile and free from DNA, DNase, RNase, PCR inhibitors, ATP and pyrogens/endotoxins. Individually packaged.

<sup>3</sup>Also available in Sterile (Batch-certified sterile and free from pyrogens/endotoxins): 0030119487, 200 pcs. (10 x pk/20)

## Eppendorf Microcentrifuges



Model	MiniSpin/MiniSpin plus	Centrifuge 5418/5418 R
<b>Description</b>	<b>Entry-level centrifuges</b>	<b>Medium capacity for molecular biology</b>
Max Capacity	12 x 2 mL	18 x 2 mL
Max. Speed	12,100/14,100 x g 13,400/14,100 rpm	16,873 x g 14,000 rpm
Time setting	15s–30min/15s–99min, infinite	30s–9h 59min, infinite
Acceleration time (seconds) <sup>1</sup>	13	13
Braking time (seconds) <sup>1</sup>	12	13
Noise level (dBA)	< 49/52	< 52/49
<b>Rotor options</b>	2	1
for 1.5/2 mL tubes, 12-place	12,100/14,100 x g	
for 1.5/2 mL tubes, 18-place	–	16,873 x g <sup>AT,Q</sup>
for 1.5/2 mL tubes, 24-place	–	–
for 1.5/2 mL tubes, 24-place, Swing-bucket	–	–
for 1.5/2 mL tubes, 30-place	–	–
for 1.5/2 mL tubes, 48-place	–	–
for spin columns kits and 1.5/2 mL Tube	–	–
for Eppendorf Tube 5.0 mL	–	–
for PCR-tubes/strips	–	–
for cryotube and HPLC vials	–	–
for 15/50 mL conical and Vacutainer tubes	–	–
for plates	–	–
<b>Additional product features</b>		
OptiBowl—Whisper quiet w/o rotor lid	–	■
Soft-touch lid closure	■	■
Full-digit display of time and speed	–	■
SOFT brake function	–	–
SHORT spin for quick runs	■	■
SHORT spin programmable to desired speed	–	–
Adjustable alarm volume	–	–
Save user-defined programs	–	–
Control panel types	keypad	knob
Metal rotor bowl for easy cleaning	–/■	–/■
<b>Features of refrigerated models</b>		
Temperature range	–	0°C to 40°C
Maintains constant 4°C at max speed	–	■
FastTemp pre-cooling to 4°C <sup>1</sup>	–	15 min
FastTemp <sup>pro</sup> programmable	–	–
Standby cooling	–	■
ECO shut-off	–	■
Condensation drain	–	■
<b>Dimensions</b>		
Height	4.7 in 12 cm	8.2/9.8 in 21/25 cm
Footprint (W x D)	8.9 x 9.4 in 22.6 x 23.9 cm	8.2 x 11.8/11.7 x 18.2 in 21 x 30/29.8 x 46.3 cm
Weight	9.5 lb 3.4 kg	17/48.5 lb 7.7/22 kg

AT = Certified aerosol-tight

Q = QuickLock rotor lid

PTFE = PTFE coated for increased chemical resistance and easy cleaning (optional for Model 5424)

<sup>1</sup> According to DIN 58970 with standard 1.5/2ml rotor and room temperature of 21°C



**Centrifuge 5424/5424 R****The laboratory standard**

24 x 2 mL

21,130 x *g*

15,000 rpm

30s–9h 59min, infinite

15

16

&lt; 52/49

4

–

–

21,130 x *g*<sup>AT,Q,PTFE</sup>

–

–

18,111 x *g* (18-place)

–

18,615 x *g* (4x PCR-strips)

–

–

–

–

■

■

■

■

■

■

■

–

knob or keypad

■

–10°C to 40°C

■

8 min

–

■

■

■

■

8.9/10.2 in

23/26 cm

9.3 x 12.6/11.4 x 18.9 in

24 x 32/29 x 48 cm

29.5/46.3 lb

13.4/21 kg

**Centrifuge 5427 R****High-throughput**

48 x 2 mL, 12 x 5 mL

25,000 x *g*

16,220 rpm

10s–9h 59min, infinite

18

18

&lt; 54

9

–

–

25,000 x *g*<sup>AT,Q</sup>16,050 x *g*<sup>AT,Q</sup>20,800 x *g*<sup>AT,Q</sup>18,210 x *g*<sup>AT,Q</sup>19,100 x *g*<sup>AT,Q</sup> (24-place)20,600 x *g*<sup>AT,Q</sup> (12-place)11,710 x *g* (6x PCR-strips)

–

–

–

–

■

■

■

■

■

■

–

knob

■

–10°C to 40°C

■

11 min

–

■

■ (adjustable time setting)

■

9.8 in

25 cm

12.6 x 21.3 in

31.9 x 54 cm

66.1 lb

30 kg

**Centrifuge 5430/5430 R****Microcentrifuge with multipurpose capabilities**48 x 2 mL, 16 x 5 mL, 6 x 15/50 mL, 12 x Vac,  
2 x MTP30,130 x *g*

17,500 rpm

30s–99 h 59 min, infinite

14

15

&lt; 58/54

12

–

–

30,130 x *g*<sup>AT,Q,PTFE</sup>16,050 x *g*<sup>AT,Q</sup>20,817 x *g*<sup>AT,Q,PTFE</sup>18,210 x *g*<sup>AT,Q</sup>19,000 x *g*<sup>AT,Q</sup> (24-place)21,190 x *g*<sup>AT,Q</sup> (16-place)13,543 x *g* (8x PCR-strips)8,320 x *g* (18-place)7,814 x *g* (6/12-place)2,204 x *g* (max. 29 mm loading height)

–

–

■ (backlit LCD display)

■

■

■

■

■

50 (5 program keys)

knob or keypad

■

–11°C to 40°C

■

15 min

■

■

■ (adjustable time setting)

■

9.8/11.7 in

25/29 cm

13 x 16/15 x 25 in

33 x 42/38 x 64 cm

64/124 lb

29/56 kg

## Eppendorf Microcentrifuges



	MiniSpin	MiniSpin plus	5418	5418 R	5424	5424 R	5427 R	5430	5430 R
<b>Model</b>	Entry-level	Low capacity for DNA/RNA work	Medium capacity for molecular biology		The laboratory standard		High throughput	Microcentrifuge with multipurpose capabilities	
<b>Capacity</b>	12 × 1.5/2 mL	12 × 1.5/2 mL	18 × 1.5/2 mL		24 × 1.5/2 mL		48 × 1.5/2 mL	48 × 1.5/2 mL (6 × 15/50 mL, 2 × MTP)	
<b>Max. speed (RCF)</b>	12,100 × g	14,100 × g	16,873 × g		21,130 × g		25,000 × g	30,130 × g	
<b>Max. rpm</b>	13,400	14,500	14,000		15,000		16,220	17,500	
<b>Rotor options</b>	2	2	1		4		9	12	
<b>Refrigerated</b>			0 °C to 40 °C		-10 °C to 40 °C		-10 °C to 40 °C	-11 °C to 40 °C	
<b>Catalog no.*</b>	022620100	022620207	022620304	5401000137	022620401	5404000537	5409000012	022620511	022620623

## Eppendorf Multipurpose Centrifuges



	5702	5702 R	5702 RH	5804	5804 R	5810	5810 R
<b>Model</b>		Low speed centrifuge optimized for medium capacity needs in clinical research and cell culture labs	Active heating and cooling for high temperature accuracy to maximize cell viability (e.g. cell transfection)	Compact high speed centrifuge for medium capacity needs. With swing-bucket rotor and deepwell plate capacity		The workhorse for mid to high-throughput laboratories: Highly versatile, high speed and high plate capacity	
<b>Capacity</b>		4 × 100 mL		4 × 250 mL		4 × 750 mL	
<b>- Conical tubes</b>		20 × 15 mL/4 × 50 mL		40 × 15 mL/16 × 50 mL		56 × 15 mL/28 × 50 mL	
<b>- Blood collection tubes</b>		36 × 13 mm/30 × 16 mm		56 × 13 mm/52 × 16 mm		100 × 13 mm/80 × 16 mm	
<b>- Plates</b>		-		10 × MTP/2 × DWP		16 × MTP/4 × DWP	
<b>Max. speed (RCF)</b>		3,000 × g		20,913 × g		20,913 × g	
<b>Max. rpm</b>		4,400		14,000		14,000	
<b>Rotor options</b>		6		12		18	
<b>Refrigerated</b>		-9 °C to 40 °C	-9 °C to 42 °C	-9 °C to 40 °C		-9 °C to 40 °C	
<b>Catalog No.*</b>	022629883	022629905	022629921	5804000579	5805000572	022627110	022627122

\* Centrifuge with maximum capacity rotor (120 V). Check with your local Eppendorf sales rep for different packaging options or special pricing.

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