

Silence  
Speed  
Simplicity



**NEW!**  
Microcentrifuges

## My centrifuge!

The new spirit of microcentrifugation: Centrifuge 5418, Centrifuge 5424, Centrifuge 5430

**eppendorf**



**Silence  
Speed  
Simplicity**

## The new spirit of microcentrifugation: silence, speed and simplicity!

### What do you want your next centrifuge to be?

Should it only be new? Or speedy?  
Or silent? Or just easy to use?  
With over 40 years experience in the development and manufacture of laboratory centrifuges, Eppendorf offers you more than just a new or a fast centrifuge.

#### Three reasons to choose Eppendorf

1. It adapts perfectly to your specific application requirements.
2. Its design and operating concept are based on in-depth ergonomic studies.
3. Now they are more silent, speedy and simple to operate than ever before – and with maximum safety.



Bring this new spirit of centrifugation into your laboratory – with new **Eppendorf microcentrifuges**:

- Centrifuge 5418
- Centrifuge 5424
- Centrifuge 5430

#### ● Silence

Now quieter: the motor, rotors, seals and lid are perfectly harmonized to considerably reduce irritating noise and allow you to work in peace.

#### ● Speed

Now faster: with speeds up to an amazing 30,130 x g, you decide how fast or how gently to centrifuge your samples.

#### ● Simplicity

Now easier: intuitive and simple to operate because every button and key is strategically placed so that every operating step happens at the right time – not to mention these microcentrifuges are so easy to maintain and service.

#### Our innovations – Your benefits

##### Swing-bucket rotor

Unique: even MTP and PCR plates up to 29 mm high fit in our Centrifuge 5430!

##### Innovative Kit rotor

At last! Tube lids that break or tear off during centrifuging are a thing of the past. The extended rotor rim allows you to centrifuge Spin Columns and NAP kits with open tube lids.

##### Color-coded, aerosol-tight rotors\*

The lids and their red anodized knobs match up with the special red ring. How wonderfully simple is that?

##### Centrifuge without a lid

Quiet centrifugation is possible in Centrifuges 5418 and 5424 even without the rotor lid (with no significant increase in noise level). If you need to work under aerosol-tight\* conditions, though, keep the lid on.

##### Special coating

The Teflon®-based PTFE coating that is available on select rotors provides maximum chemical resistance during use and cleaning.

\* Certified aerosol-tight.

# Centrifuge 5430: my 30-place centrifuge!

## Centrifuge 5430

This versatile 30-place model is the successor to our popular Centrifuge 5417 C. It is unique in terms of speed, and its many rotor options provide maximum flexibility to cover a broad range of applications. Its smartly designed control panel is the result of extensive ergonomic studies, and it features varied programming options to make even non-routine centrifugation simpler than ever.

### Product features:

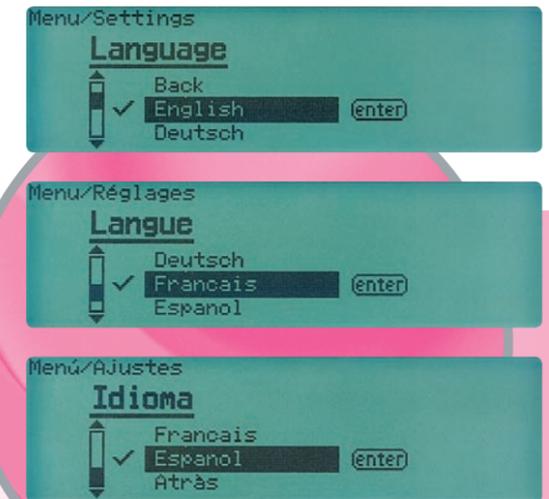
- Standard rotor is aerosol-tight\*
- Eight different rotor options
- Automatic rotor detection
- Max. rcf: 30,130 x g
- 5 program keys; stores up to 50 programs
- Automatic lid opening (approx. 10°) at the end of the run
- Low access height: 25 cm (see centimeter scale at edge of page)



An intuitive menu guide features full text messages that are easy to read on the large backlit LC display. All information and program parameters can be displayed in German, English, French or Spanish.

Eight different rotors are available, three being aerosol-tight\* and/or have a special Teflon® coating to cover every requirement.

- 30-place standard 1.5/2.0 ml micro test tube rotor, aerosol-tight\* and coated
- 30-place 1.5/2.0 ml micro test tube rotor, coated
- 24-place high-speed rotor, aerosol-tight, coated
- 24-place Kit rotor for spin columns, aerosol-tight
- 8 x PCR 8-strip rotor
- 15 ml and 50 ml Falcon® rotor
- Rotor for CryoTubes®
- Swing-bucket rotor for MTP and PCR plates



● **FA-45-30-11**  
Standard rotor\*\* for 30 x 1.5/2.0 ml tubes



● **F-45-30-11**  
Rotor\*\* for 30 x 1.5/2.0 ml tubes



● **FA-45-24-11-HS**  
High-speed rotor\*\*\* for 24 x 1.5/2.0 ml tubes



● **FA-45-24-11-Kit**  
Rotor\* for 24 x open 1.5/2.0 ml micro test tubes, e.g. spin columns



● **F-45-64-5-PCR**  
PCR strip rotor for up to 64 x 0.2 ml PCR tubes



● **F-45-18-17-Cryo**  
Rotor for Cryotubes®



● **F-35-6-30**  
Rotor for 6 x 15/50 ml Falcon® tubes



● **A-2-MTP**  
Swing-bucket rotor for MTP and PCR plates

\*Aerosol-tightness of lid tested by the Centre for Applied Microbiology & Research, Porton Down.

\* Certified aerosol-tight.  
\*\* PTFE-coated  
\*\*\* Aerosol-tight and PTFE-coated  
Falcon®: registered trademark of Becton Dickinson, Franklin Lakes, USA  
CryoTube® is a registered trademark of NUNC A/S, Roskilde, Denmark.

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● The lid opens to reveal the secret of its uniquely quiet operation: an aerodynamic chamber design.

# Centrifuge 5424: my 24-place centrifuge!

## Centrifuge 5424

This highly advanced 24-place model is the successor to our Centrifuge 5415 D. It is unbelievably quiet and equipped with a number of innovative features and standards.

Centrifuge 5424 is available in two different control panel styles. You may choose between an easy-clean foil keypad or the tried-and-tested blue knobs to set your parameters quickly. Both are easy to operate!

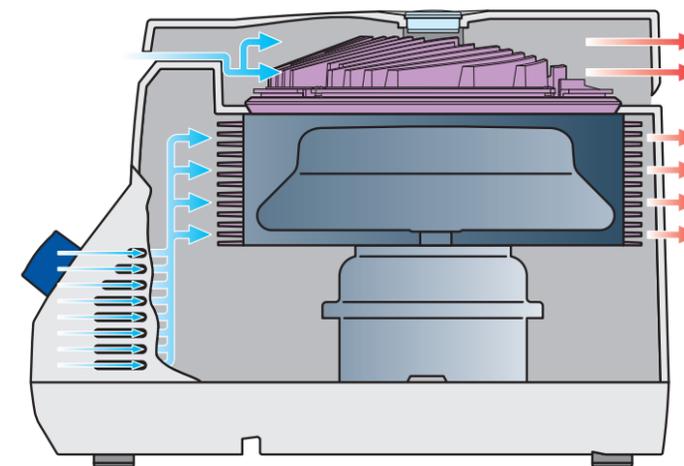
**Product features:**

- Standard rotor is aerosol-tight\*
- Four different rotor options
- Max. rcf: 20,238 x g
- Choose either smooth foil keypad or rotary knob control
- Amazingly quiet operation—even without the rotor lid!
- Automatic lid opening at the end of the run
- Low access height: 23 cm (see centimeter scale at edge of page)
- Expanded menu functions
- Easily switch between rpm and rcf
- Short-spin function

Its conveniently low access height and compact footprint mean that Centrifuge 5424 can easily fit in any laboratory, even one with limited space. The lid's wide opening angle simplifies both loading and rapid rotor change.

Four different rotors provide maximum application versatility:

- 24-place standard 1.5/2.0 ml micro test tube rotor, aerosol-tight\*
- 24-place special rotor with PTFE-coating for maximum chemical resistance, aerosol-tight\*
- 24-place Kit rotor for spin columns
- 4 x PCR 8-strip rotor



● **New air cooling technology:** Unique cooling fins extract the heat that builds up in the rotor chamber and moves it outside the chamber. The benefit to you? A very quiet centrifuge!

● For increased safety, the aerosol-tight\* rotors feature a bright red safety screw-top that matches the red ring on the rotor.



● **FA-45-24-11**  
Standard rotor\* for 1.5/2.0 ml tubes

● **FA-45-24-11-Special**  
Special coated rotor\*\*\* for 1.5/2.0 ml tubes provides maximum chemical resistance

● **F-45-32-5-PCR**  
PCR strip rotor for up to 32 x 0.2 ml PCR tubes

● **F-45-18-11-Kit**  
Rotor\* for 24 x open 1.5/2.0 ml micro test tubes, e.g., spin columns

\* Certified aerosol-tight.

\* Certified aerosol-tight.  
\*\* PTFE-coated  
\*\*\* Aerosol-tight and PTFE-coated

# Centrifuge 5418: my 18-place centrifuge!

## Centrifuge 5418

This compact 18-place model makes an ideal starter centrifuge for routine molecular biology applications. With those two world-famous knobs, it's unmistakably Eppendorf – and so simple to operate!

Tubes can be centrifuged with or without the rotor lid in the standard, aerosol-tight\* 18-place rotor. Whichever method you use, operating noise is always pleasantly low.

### Product features:

- Standard aerosol-tight\* rotor
- Max. rcf: 16,873 x g
- Very small footprint, about the size of this page
- Amazingly quiet operation—even without the rotor lid
- Easy switch between rpm and rcf
- Short-spin function
- Automatic lid opening (approx. 10°) at the end of the run
- Low access height: 21 cm  
(see centimeter scale at edge of page)

- Like its larger sibling, Centrifuge 5418 meets the most current industry standards and features the latest, most innovative technology in an astonishingly small space.



● FA-45-18-11  
Rotor (aerosol-tight) for 1.5/2.0 ml tubes

## Rotors and accessories for Centrifuges 5418, 5424 and 5430

### Rotors for Centrifuges 5418/5424/5430

Description	Centrifuge 5418	Centrifuge 5424	Centrifuge 5430
Standard rotor (up to 2.0 ml), aerosol-tight*	●	●	● c
PCR strip rotor		●	●
Special rotor		● c	
Kit rotor		●	●
CryoTube® rotor			●
Falcon® tube rotor			●
High-speed rotor			● c
MTP rotor			●
Micro test tube rotor (up to 2.0 ml)			● c

c : PTFE-coated (for increased chemical resistance).

## Technical specifications

### Rotors for Centrifuge 5430

Rotor	Tubes/plates	Properties	Max. g-force	Max. speed
FA-45-30-11, standard rotor	30 x 1.5/2.0 ml micro test tubes	aerosol-tight* and coated	20,817 x g	14,000 rpm
F-45-30-11, micro test tube rotor	30 x 1.5/2.0 ml micro test tubes	coated	20,817 x g	14,000 rpm
FA-45-24-11-HS, high-speed rotor	24 x Eppendorf 1.5 ml Safe-Lock tubes and 3810X tubes	aerosol-tight* and coated	30,130 x g	17,500 rpm
FA-45-24-11-Kit, Kit rotor	24 x filter tubes/spin columns, nucleic acid purification kits, micro test tubes up to 2.0 ml	aerosol-tight*	19,090 x g	13,200 rpm
F-45-64-5-PCR, PCR tube strip rotor	8 x 5/8-strip PCR tubes or 64 x individual 0.2 ml PCR tubes	–	13,543 x g	11,800 rpm
F-45-18-17-Cryo, CryoTube® rotor	18 x 1.0/2.0 ml Cryotubes®	–	8,320 x g	8,900 rpm
F-35-6-30, Falcon® tube rotor	6 x 50 ml Falcon® tubes or 6 x 15 ml Falcon® tubes	–	7,197 x g	7,830 rpm
A-2-MTP, MTP rotor	MTP, PCR plates, CombiSlide® adapter, max. loading height 29 mm	–	2,204 x g	4,680 rpm

### Rotors for Centrifuge 5424

Rotor	Tubes	Properties	Max. g-force	Max. speed
FA-45-24-11, standard rotor	24 x 1.5/2.0 ml micro test tubes	aerosol-tight*	20,238 x g	14,680 rpm
FA-45-24-11-Special, specially coated rotor	24 x 1.5/2.0 ml micro test tubes	aerosol-tight* and coated	20,238 x g	14,680 rpm
F-45-18-11-Kit, Kit rotor	18 x filter tubes/Spin Columns, nucleic acid purification kits, micro test tubes up to 2.0 ml	–	17,347 x g	14,680 rpm
F-45-32-5-PCR, PCR tube strip rotor	4 x 5/8-strip PCR tubes or 32 x individual PCR tubes 0.2 ml	–	17,829 x g	14,680 rpm

### Rotors for Centrifuge 5418

Rotor	Tubes	Properties	Max. g-force	Max. speed
FA-45-18-11, standard rotor	18 x 1.5/2.0 ml micro test tubes	aerosol-tight*	16,873 x g	14,000 rpm

\* Certified aerosol-tight.  
Falcon® : registered trademark of Becton Dickinson, Franklin Lakes, USA.  
CryoTube® is a registered trademark of NUNC A/S, Roskilde, Denmark.  
Errors and omissions excepted; technical specifications subject to change!

## Centrifuges 5418, 5424 and 5430 (rotors and accessories)

### Technical specifications

Description	Centrifuge 5418	Centrifuge 5424	Centrifuge 5430
<b>Power supply</b>	230 V/50–60 Hz	230 V/50–60 Hz	230 V/50–60 Hz
<b>Max. rcf</b>	16,873 x g	20,238 x g	30,130 x g
<b>Max. rpm</b>	14,000 rpm	14,680 rpm	17,500 rpm
<b>Dimensions in cm (W x D x H)</b>	21 x 30 x 21	24 x 32 x 23	33 x 42 x 25
<b>Weight without rotor</b>	7.7 kg	13.4 kg	29 kg
<b>No. of rotors</b>	1	4	8
<b>Max. capacity</b>	18 x 1.5/2.0 ml	24 x 1.5/2.0 ml	30 x 1.5/2.0 ml
<b>Acceleration time to max. speed</b>	15 s	15 s	< 25 s
<b>Braking time from max. speed</b>	15 s	16 s	< 25 s
<b>Noise level</b>	< 57 dB(A)	< 56 dB(A)	< 65 dB(A)
<b>Power requirement</b>	170 W	220 W	475 W
<b>Soft ramp</b>	–	adjustable	adjustable

### Ordering information

Description	Order Number
<b>Centrifuge 5418</b>	
230 V/50–60 Hz, incl. rotor FA-45-18-11	5418 000.017
Rotor FA-45-18-11, incl. rotor lid, aerosol-tight*	5418 707.005
<b>Centrifuge 5424</b>	
230 V/50–60 Hz, knob version, incl. rotor FA-45-24-11	5424 000.410
230 V/50–60 Hz, foil keypad version, incl. rotor FA-45-24-11	5424 000.010
230 V/50–60 Hz, knob version, without rotor	5424 000.614
230 V/50–60 Hz, foil keypad version, without rotor	5424 000.215
Rotor FA-45-24-11, incl. rotor lid, aerosol-tight*	5424 702.007
Rotor FA-45-24-11-Special, incl. rotor lid, aerosol-tight*, PTFE-coated**	5424 700.004
Rotor F-45-18-11-Kit, incl. rotor lid	5424 706.002
Rotor F-45-32-5-PCR, incl. rotor lid	5424 704.000
<b>Centrifuge 5430</b>	
230 V/50–60 Hz, incl. rotor FA-45-30-11	5427 000.216
230 V/50–60 Hz, without rotor	5427 000.011
Rotor F-45-30-11, incl. rotor lid, PTFE-coated**	5427 712.003
Rotor FA-45-30-11, incl. rotor lid, aerosol-tight*, PTFE-coated**	5427 713.000
Rotor FA-45-24-11-HS, incl. rotor lid, aerosol-tight*, PTFE-coated**	5427 710.000
Rotor FA-45-24-11-Kit, incl. rotor lid, aerosol-tight*	5427 703.004
Rotor F-45-18-17-Cryo, incl. rotor lid	5427 705.007
Rotor F-45-64-5-PCR, incl. rotor lid and adapter	5427 714.006
Spare adapter for F-45-64-5-PCR, set of 4	5427 717.005
Rotor F-35-6-30, incl. rotor lid, sleeve and adapter	5427 716.009
Adapter for F-35-6-30, sleeve for 50 ml Centriplus (set of 6 pieces)	5427 723.005
Spare sleeves for F-35-6-30, set of 6	5427 721.002
Spare adapter 1 x 50 ml Falcon® for F-35-6-30, set of 2	5427 727.000
Adapter 1 x 15 ml Falcon® for F-35-6-30, set of 2	5427 726.004
Rotor A-2-MTP, incl. 2 MTP buckets and rotor lid	5427 700.005
Spare MTP buckets for A-2-MTP, set of 2	5427 722.009
<b>Adapters for all fixed-angle rotors for inserting PCR and micro test tubes</b>	
For tube size 0.2 ml (Ø adapter bore: 6 mm), set of 6	5425 715.005
For tube size 4 ml (Ø adapter bore: 6 mm), set of 6	5425 717.008
For tube size 0.5–0.6 ml (Ø adapter bore: 8 mm), set of 6	5425 716.001
<b>Adapter for A-2-MTP swing-bucket rotor</b>	
Adapter for 96-well PCR plates	5825 711.009
Adapter for 384-well PCR plates	5825 713.001

Falcon® : registered trademark of Becton Dickinson, Franklin Lakes, USA.  
Errors and omissions excepted; technical specifications subject to change!

\* Certified aerosol-tight.  
\*\* For increased chemical resistance.

# Centrifuge with Eppendorf

This brochure introduces the three new “stars” in our microcentrifuge range. We continue to offer many other models—and sizes—to meet your personal application requirements.

We make it a point to design each Eppendorf centrifuge around you: your needs, your preferences and your criteria for quality and reliability are the benchmark for every one our centrifuges, no matter which one you choose. Detailed information can be found on our website [www.eppendorf.com](http://www.eppendorf.com)

Centrifuge, Model	Capacity	Max. rcf/ max. rpm	Refrigerated	Application focus
<b>Microcentrifuges</b>				
<b>MiniSpin®</b>	Max. 12 samples, 0.2 to 2.0 ml tubes	12,100 x g / 13,400 rpm	–	Routine centrifugation with low sample throughput
<b>MiniSpin® plus</b>	Max. 12 samples, 0.2 to 2.0 ml tubes	14,000 x g / 14,500 rpm	–	Routine centrifugation with low sample throughput
<b>5418</b>	Max. 18 samples, 0.2 to 2.0 ml tubes	16,873 x g / 14,000 rpm	–	Routine centrifugation with low-to-moderate sample throughput
<b>5424</b>	Max. 24 samples, 0.2 to 2.0 ml tubes	20,238 x g / 14,680 rpm	–	Routine centrifugation with moderate sample throughput
<b>5415 R</b>	Max. 24 samples, 0.2 to 2.0 ml tubes	16,100 x g / 13,200 rpm	0 to 40 °C	Refrigerated routine centrifugation with moderate sample throughput
<b>5430</b>	Max. 30 samples, 0.2 to 50 ml tubes, PCR plates, MTPs	30,130 x g / 17,500 rpm	–	Routine centrifugation with moderate sample throughput; also accommodates plates and Falcon® tubes
<b>5417 R</b>	Max. 30 samples, 0.2 to 2.0 ml tubes	25,000 x g / 16,400 rpm	– 9 to 40 °C	Refrigerated routine centrifugation with moderate sample throughput
<b>Clinical Centrifuges</b>				
<b>5702</b>	Max. 0.45 l sample volume, 1.0 to 85 ml tubes	3,000 x g / 4,400 rpm	–	Small medical laboratories, cell culture laboratories
<b>5702 R</b>	Max. 0.45 l sample volume, 1.0 to 85 ml tubes	3,000 x g / 4,400 rpm	– 9 to 40 °C	Refrigerated. Small medical laboratories, cell culture laboratories
<b>5702 RH</b>	Max. 0.45 l sample volume, 1.0 to 85 ml tubes	3,000 x g / 4,400 rpm	– 9 to 42 °C / heated	Temperature controlled. Small medical laboratories, cell culture laboratories, IVF laboratories
<b>Multipurpose Centrifuges</b>				
<b>5804</b>	Max. 0.51 l sample volume, 0.2 to 100 ml tubes/PCR strips/ MTPs/DWPs/filter plate systems	20,800 x g / 14,000 rpm	–	Low-to-high-volume, routine centrifugation with moderate-to-high sample throughput
<b>5804 R</b>	Max. 0.51 l sample volume, 0.2 to 100 ml tubes/PCR strips/ MTPs/DWPs/filter plate systems	20,800 x g / 14,000 rpm	– 9 to 40 °C	Refrigerated, low-to-high-volume, routine centrifugation with moderate-to-high sample throughput
<b>5810</b>	Max. 1.6 l sample volume, 0.2 to 400 ml tubes/PCR strips/ MTPs/DWPs/filter plate systems	20,800 x g / 14,000 rpm	–	Low-to-high-volume, routine centrifugation with high sample throughput
<b>5810 R</b>	Max. 1.6 l sample volume, 0.2 to 400 ml tubes/PCR strips/ MTPs/DWPs/filter plate systems	20,800 x g / 14,000 rpm	– 9 to 40 °C	Refrigerated, low-to-high-volume, routine centrifugation with high sample throughput

More information is available in the Eppendorf catalogue.  
\* Certified aerosol-tight.

# Perfect systems for sequential applications



## An example of Eppendorf products for successful real-time PCR experiments:

- Centrifuge 5430
- A-2-MTP rotor
- twin.tec PCR plates
- Eppendorf micro test tubes, can be centrifuged up to 30,000 x g
- MixMate™
- epMotion® 5070 and / or epMotion® 5075 automated pipetting workstations

**eppendorf**  
*In touch with life*

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