eppendorf




# The backbone of your discovery

Exceptional versatility with the Centrifuge 5811 R







# Exceptional versatility with the Centrifuge 5811 R

In many labs, centrifugation is not a single fixed routine. You might spin tubes in the morning, work with plates in the afternoon, and prepare bottles for the next experiment – often across shared benches, changing projects, and evolving protocols. All of this converges at one centrifugation hub that needs to perform reliably, day after day.

Our Centrifuge 5811 R is designed to be this backbone of your discovery: a refrigerated, multipurpose system that keeps tube, bottle, and plate workflows moving on one benchtop – supporting today's experiments while remaining relevant for years to come.

**Versatility**
With a capacity of up to 3 L, 15 rotors, and a wide range of adapters, our Centrifuge 5811 R supports tubes, bottles, flasks, and plates within a single benchtop footprint. Swing-bucket and fixed-angle rotors, together with mixed bucket loading, enable different vessel types to be combined in one run and allow rapid adaptation when formats, users, or applications change.

**Sustainability**
The propane-based ($R_{290}$) cooling system provides a global warming potential (GWP) of 0.02* and complies with current regulatory requirements. ECO shut-off, energy-efficient FastTemp, and aerodynamic bucket designs support responsible power use, so long-term refrigerated operation can better align with evolving sustainability targets.

* Based on IPCC report No.6
(GWP = 3 based on older IPCC report No.4)

**Robustness**
As the successor to our proven Centrifuge 5810 R, the Centrifuge 5811 R is engineered for dependable, everyday performance. A robust drive, precise temperature control, automatic imbalance detection, and aerosol-tight rotors help protect both samples and users, while compatibility with most existing rotors simplifies the transition and helps preserve prior investments.

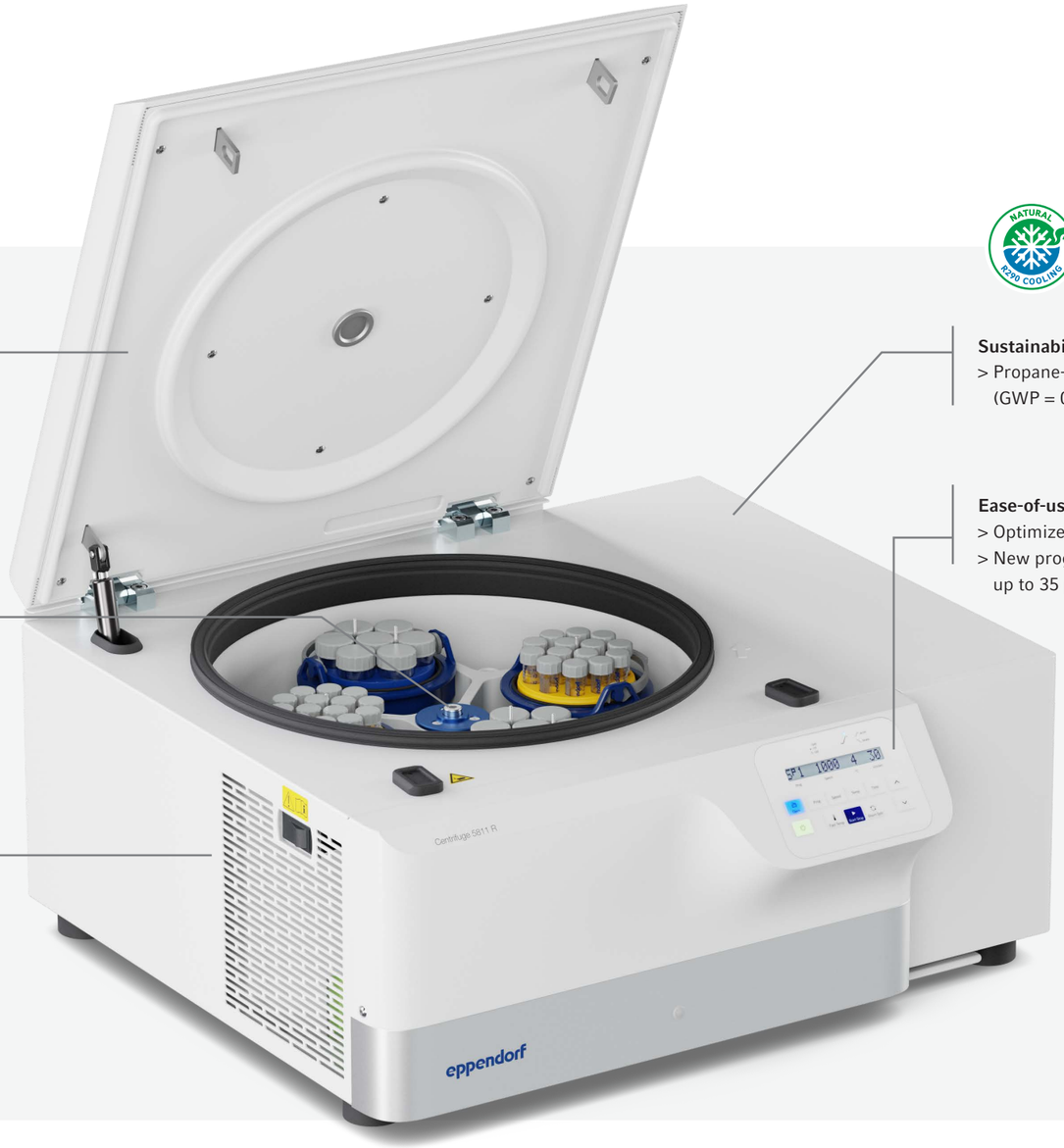
Visit our product landing page:
www.eppendorf.link/backbone

# Smart design for your discovery

**Versatility**
> 15 rotors
> Mixed bucket loading
> Fits tubes, plates and bottles

**Ergonomics**
> Eppendorf QuickLock® rotor lids
> Low access height
> Quiet operation

**Power Management**
> ECO Shut-off
> Energy efficient FastTemp
> Aerodynamic bucket designs




**Sustainability**
> Propane-based cooling (GWP = 0.02)

**Ease-of-use**
> Optimized keypad
> New program key to access up to 35 programs

## Target applications

Our Centrifuge 5811 R supports a broad range of laboratory applications through its high performance and versatile rotor options.

Typical uses include efficient cell isolation, separation of culture media, and harvesting of cell lysates; rapid pelleting of bacteria, yeast, algae, and other microorganisms; reliable isolation and purification of nucleic acids (DNA, RNA, plasmids); separation of proteins and peptides, purification of protein complexes, and preparation of enzyme assays; as well as the processing of body fluids such as whole blood, serum, plasma, and urine.




**Outstanding versatility for all your applications**
> Broad rotor and adapter selection to spin all commonly used tubes, bottles, flasks, and plates
> High centrifugation speed up to 20,913 × *g* (14,000 rpm) for applications in tubes from 0.2 to 750 mL
> Aerosol-tight rotors (e.g. for potentially hazardous materials)

**The benchmark for ergonomic operation**
> Low sound level to benefit your work environment
> Low access height (29 cm) for easy loading/unloading
> Centrifuge lid with soft-touch lid closure

**Designed to fit in every lab**
> Compact footprint saves valuable bench space
> Low lid opening height for use under shelves
> Automatic rotor recognition and imbalance detection for maximum operational safety

For more information on Eppendorf Sustainability, please visit www.eppendorf.link/sustainability




# Rotor design at its best

Eppendorf's swing-bucket and fixed-angle rotors elevate your centrifuge performance to a new level. Enjoy unique product features that improve handling and performance.

## Swing-bucket rotors

**Optimized energy efficiency**
The round buckets have been designed to be especially aerodynamic. The result is a more efficient design that reduces power consumption by up to 48 %.

**Longer rotor lifetime**
Both swing-bucket and fixed-angle rotors have been designed with a particularly long lifetime in mind.

**Eppendorf QuickLock® caps for one-hand operation**
> Significantly improved handling, easy operation with one hand
> Handle allows the closed bucket to be carried to the biosafety cabinet where it can be opened in a safe environment
> Aerosol-tightness has been tested and verified by Public Health England, Porton Down, UK







## Fixed-angle rotors

**Low rotor weight**
Eppendorf's fixed-angle rotors are among the lightest in the industry to improve handling and operational safety. Light-weight rotors cause less wear and tear on the motor and allow for faster acceleration and braking times.

**Eppendorf QuickLock® lids for ergonomic lid locking**
Our aerosol-tight QuickLock rotors close with only ¼ of a turn. This not only saves you time during everyday use, it also reduces repetitive strain on your wrist.

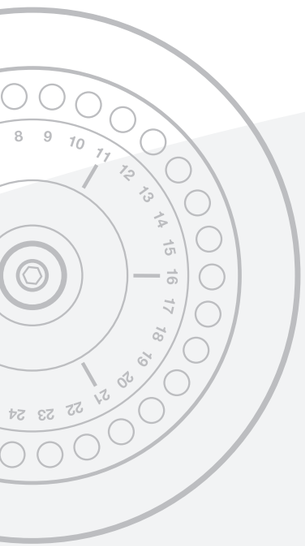
**Superior temperature control**
Aluminum's high thermal conductivity enables fast pre-cooling and accurate temperature control in refrigerated centrifuges.

**Additional rotor features**
> All rotors are anodized for high chemical resistance and to prevent corrosion
> Optimized design of rotor boreholes and adapters provide optimal support for high-speed centrifugation of tubes
> Aluminum rotors are recyclable



**Cross section of Rotor FA-45-6-30**
(6 × 50 mL conical) showing the light-weight design.
All metal not needed for safety or performance is hollowed out to reduce weight and improve handling.

# Overview of rotors





## Rotor S-4-104

> High-capacity swing-bucket rotor with max. speed 3,214 × *g* (3,900 rpm)
> Rotor S-4-104 accommodates tubes and bottles from 0.2 mL to 750 mL as well as plates
> Rotor life time: max. 100,000 cycles
> Buckets, caps, and adapters are autoclavable



## Rotor A-4-81

> Swing-bucket rotor with max. speed 3,220 × *g* (4,000 rpm)
> Rotor A-4-81 accommodates tubes and flasks from 0.2 mL to 500 mL as well as plates
> Rotor life time: max. 100,000 cycles
> Buckets, caps, and adapters are autoclavable



## Rotor S-4-72

> Medium capacity swing-bucket rotor with speed up to 3,234 × *g* (4,200 rpm)
> Broad range of adapters available to handle all common tube formats from 0.2 mL to 250 mL
> Rotor life time: max. 100,000 cycles
> Buckets and adapters are autoclavable



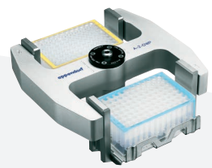
## Rotor A-4-62

> Economic swing-bucket rotor with speed up to 3,220 × *g* (4,000 rpm)
> Rotor A-4-62 accommodates tubes and flasks from 0.2 mL to 250 mL as well as plates
> Rotor life time: max. 40,000 cycles
> Rotor, buckets, caps, and adapters are autoclavable



## Rotor A-4-44

> High-speed swing-bucket rotor for applications up to 4,500 × *g* (5,000 rpm)
> Rotor A-4-44 accommodates tubes from 0.2 mL to 100 mL
> Rotor life time: max. 34,000 cycles
> Rotor, buckets, caps, and adapters are autoclavable



## Rotor A-2-DWP

> Max. speed: 2,250 × *g* (3,700 rpm)
> Rotor can handle up to
  – 2 × 5 MTP
  – 2 × 4 Cell culture plates
  – 2 × 2 DWP
  – 2 × 1 Filtration plate kits
> Maximum loading height of 89 mm
> Rotor life time: max. 32,000 cycles
> Rotor and buckets are autoclavable



## Rotor A-2-DWP-AT

> Max. speed: 3,486 × *g* (4,500 rpm)
> Rotor can handle up to
  – 2 × 5 MTP
  – 2 × 2 DWP
  – 2 × 1 Filtration plate kits
> Maximum loading height of 67 mm (89 mm without lid)
> Rotor life time: max. 100,000 cycles
> Rotor and buckets are autoclavable



## Rotor F-34-6-38

> High-speed rotor for molecular biology applications in tubes from 0.2 mL to 85 mL
> Max. speed 18,514 × *g* (12,000 rpm) in
> Anodized aluminum for high chemical resistance
> Rotor, lid, and adapters are autoclavable



## Rotor FA-45-6-30

> High-speed rotor for applications in tubes from 5–50 mL
> Max. speed 20,133 × *g* (12,100 rpm) in
> Anodized aluminum for high chemical resistance
> Rotor, lid, and adapters are autoclavable



## Rotor FA-45-20-17

> 20 places for Eppendorf Tubes® 5.0 mL
> Max. speed: 20,913 × *g* (13,100 rpm)
> Anodized aluminum for high chemical resistance
> Rotor, lid, and adapters are autoclavable



## Rotor FA-45-48-11

> 48 places for 1.5/2.0 mL tubes
> Max. speed: 19,083 × *g* (max. 13,000 rpm)
> Anodized aluminum for high chemical resistance
> Rotor and lid are autoclavable



## Rotor F-45-30-11

> 30 places for 1.5/2.0 mL tubes
> Max. speed: 20,817 × *g* (14,000 rpm)
> Rotors and lids are autoclavable
> Anodized aluminum for excellent chemical resistance



## Rotor FA-45-30-11

> 30 places for 1.5/2.0 mL tubes
> Max. speed: 20,817 × *g* (14,000 rpm)
> Rotor life time: max. 100,000 cycles
> Rotors and lids are autoclaveable
> Anodized aluminum for excellent chemical resistance



## Rotor F-35-48-17

> Available in 24 and 48 steel sleeve configurations
> High-capacity fixed-angle rotor for 15 mL conical and glass tubes
> Max. speed: 5,005 × *g* (5,500 rpm)
> Form inserts for 15 mL conical tubes



# Detailed rotor overview







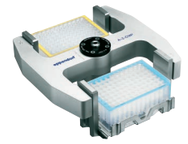
| Model | Rotor S-4-104 | Rotor A-4-81 | Rotor A-4-62 |
|---|---|---|---|
| Max. capacity | 4 × 750 mL | 4 × 500 mL | 4 × 250 mL |
| Description | Medium capacity swing-bucket rotor for blood, bacteria, cell culture and plate centrifugation | Medium capacity swing-bucket rotor for blood, bacteria, cell culture and plate centrifugation | Economic swing-bucket rotor for blood, bacteria, cell culture and plate centrifugation |
| Aerosol-tightness tubes/plates | yes/yes | yes/no | yes/no |
| Max. RCF | 3,214 × *g* | 3,220 × *g* | 3,220 × *g* |
| Max. speed | 3,900 rpm | 4,000 rpm | 4,000 rpm |
| Eppendorf Tubes® 5.0 mL and 15 mL conical | 56 | 48 | 36 |
| 25 mL snap cap tubes | 24 | 20 | 12 |
| 25 mL screw cap tubes | 28 | 20 | 12 |
| 50 mL conical tubes | 28 | 20/28*[1] | 16 |
| 13 mm round-bottom and blood collection tubes | 92 | 100 | 60 |
| 16 mm round-bottom and blood collection tubes | 80 | 64 | 48 |
| 1.5/2.0 mL micro tube | 200 | 80 | 64 |
| PCR plates/MTP | 16 | 16 | 16 |
| Deepwell plates (DWP) | 4 | 4 | 4 |

*[1] Maximum capacity with dedicated bucket/adapter.
*[2] Maximum capacity with dedicated 50 mL bucket.









| Model | Rotor S-4-72 | Rotor A-4-44 | Rotor A-2-DWP-AT | Rotor A-2-DWP |
|---|---|---|---|---|
| Max. capacity | 4 × 250 mL | 4 × 100 mL | 2 × 5 MTP, 2 × 2 DWP | 2 × 5 MTP, 2 × 2 DWP |
| Description | Economic swing-bucket rotor for blood, bacteria, cell culture centrifugation | High-speed swing-bucket rotor for platelet poor plasma, blood, bacteria and cell culture | Aerosol-tight deepwell plate rotor for safe centrifugation of hazardous samples | Economic deepwell plate rotor |
| Aerosol-tightness tubes/plates | no/– | yes/– | –/yes | –/no |
| Max. RCF | 3,234 × *g* | 4,500 × *g* | 3,486 × *g* | 2,250 × *g* |
| Max. speed | 4,200 rpm | 5,000 rpm | 4,500 rpm | 3,700 rpm |
| Eppendorf Tubes® 5.0 mL and 15 mL conical | 32 | 16 | – | – |
| 25 mL snap cap tubes | 16 | 4 | – | – |
| 25 mL screw cap tubes | 16 | 4 | – | – |
| 50 mL conical tubes | 16 | 4/8*[2] | – | – |
| 13 mm round-bottom and blood collection tubes | 56 | 36 | – | – |
| 16 mm round-bottom and blood collection tubes | 52 | 28 | – | – |
| 1.5/2.0 mL micro tube | 104 | 48 | 48 | 48 |
| PCR plates/MTP | – | – | 10 | 10 |
| Deepwell plates (DWP) | – | – | 2 | 4 |





| Model | Rotor F-34-6-38 | Rotor FA-45-6-30 |
|---|---|---|
| Max. capacity | 6 × 85 mL | 6 × 50 mL |
| Description | High-speed rotor suitable for molecular applications in tubes up to 85 mL | Aerosol-tight high-speed rotor for safe centrifugation of hazardous samples |
| Aerosol-tightness | no | yes |
| Max. RCF | 18,514 × *g* | 20,133 × *g* |
| Max. speed | 12,000 rpm | 12,100 rpm |
| 1.5/2.0 mL micro tube | 24 | – |
| Eppendorf Tubes® 5.0 mL and 15 mL conical | 6 | 6 |
| 50 mL conical tubes | 6 | 6 |
| 25 mL conical tubes | 6*[3,4] | 6*[4,5] |
| 85 mL Oakridge tubes | 6 | – |

*[3] Screw cap tubes only.
*[4] Please order adapter for 25 mL conical tubes screw cap 5820 734 000.
*[5] Please order adapter for 25 mL conical tubes snap cap 5820 733 004.







| Model | Rotor FA-45-20-17 | Rotor FA-45-48-11 | Rotor F-45-30-11/Rotor FA-45-30-11 |
|---|---|---|---|
| Max. capacity | 20 × 5.0 mL | 48 × 1.5/2.0 mL | 30 × 1.5/2.0 mL |
| Description | Aerosol-tight applications in Eppendorf Tubes® 5.0 mL | Aerosol-tight microcentrifuge tube rotor for safe centrifugation of hazardous samples | Microcentrifuge tube rotor |
| Aerosol-tightness | yes | yes | no/yes |
| Max. RCF | 20,913 × *g* | 19,083 × *g* | 20,817 × *g* |
| Max. speed | 13,100 rpm | 13,000 rpm | 14,000 rpm |
| 1.5/2.0 mL micro tube | 20 | 48 | 30 |
| Eppendorf Tubes® 5.0 mL and 15 mL conical | 20/– | – | – |
| 50 mL conical tubes | – | – | – |
| 25 mL conical tubes | – | – | – |
| 85 mL Oakridge tubes | – | – | – |

# Detailed rotor overview



| Model | Rotor F-35-48-17*[1] |
|---|---|
| Aerosol-tightness | no |
| Max. RCF | 5,005 × *g* |
| Max. speed | 5,500 rpm |
| 1.5/2.0 mL micro tube | – |
| Eppendorf Tubes® 5.0 mL and 15 mL conical | –/40 |

*[1] Please note that a software upgrade will be necessary for older centrifuges when using this rotor. Please contact your local Eppendorf organization or dealer for further information.

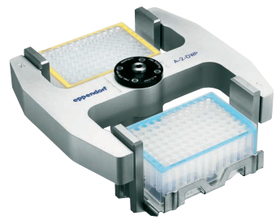
**Ordering information**

| Description | Order no. |
|---|---|
| **Rotor FA-45-20-17,** aerosol-tight, incl. rotor lid, for 20 Eppendorf Tubes® 5.0 mL | 5820 765 003 |
| **Rotor FA-45-48-11,** aerosol-tight, incl. rotor lid, for 48 × 1.5/2.0 mL tubes | 5820 760 001 |
| **Rotor F-45-30-11,** incl. rotor lid, for 30 × 1.5/2.0 mL reaction vessels | 5804 715 004 |
| **Rotor FA-45-30-11,** aerosol-tight, for 30 × 1.5/2.0 mL reaction vessels | 5804 726 006 |
| **Adapter,** for 1 vessel 1.5–2.0 mL, for all 5.0 mL rotors, 4 pcs. | 5820 768 002 |
| **Adapter,** for 1 cryo tube, for all 5.0 mL rotors, 4 pcs. | 5820 769 009 |
| **Adapter,** for 1 HPLC tube, for all 5.0 mL rotors, 4 pcs. | 5820 770 007 |

**Ordering information**

| Description | Order no. |
|---|---|
| **Rotor F-35-48-17,** for 24 × 15 mL conical tubes, incl. 24 steel sleeves and adapters | 5820 771 003 |
| **Rotor F-35-48-17,** for 40 × 15 mL conical tubes, incl. 48 steel sleeves and adapters | 5820 772 000 |





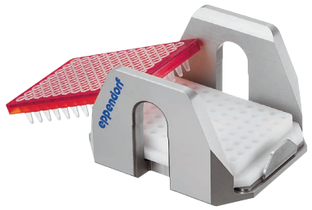
**Rotor A-2-DWP**
> Max. speed: 2,250 × *g* (3,700 rpm)
> Rotor can handle up to
– 2 × 5 MTP
– 2 × 4 Cell culture plates
– 2 × 2 DWP
– 2 × 1 Filtration plate kits



**Rotor A-2-DWP-AT**
> Max. speed: 3,486 × *g* (4,500 rpm)
> Rotor can handle up to
– 2 × 5 MTP
– 2 × 2 DWP
– 2 × 1 Filtration plate kits
– 2 × 2 Cell culture plates

**Ordering information**

| Description | Order no. |
|---|---|
| **Rotor A-2-DWP** | 5804 740 009 |
| **Rotor A-2-DWP-AT,** incl. 2 buckets, 2 aerosol-tight caps and 2 plate carriers | 5820 710 004 |



**PCR plate adapter**
> Adapter is designed to support thin-walled PCR plate wells during centrifugation
> Available for 96-well and 384-well PCR plates
> Can be used in all Eppendorf plate rotors



**Cell culture flask adapter**
> Adapter to spin down cell cultures directly in a cell culture flask
> Suitable for 25 $cm^2$ and selective 75 $cm^2$ flasks
> Can be used in Eppendorf plate rotor A-4-MTP/Flex



**IsoRack adapter**
> IsoRack adapters to support 1.5/2.0 mL IsoRacks during centrifugation
> Can be used in Eppendorf plate rotors A-2-DWP-AT, and A-4-81-MTP/Flex

**Ordering information**

| Description | Order no. |
|---|---|
| **Adapter,** for 1 cell culture flask, for Rotors A-4-81-MTP/Flex | 5825 719 000 |
| **Adapter,** for 1 PCR plate (96 wells), for 96-well PCR plates, used in A-4-81-MTP/Flex, A-4-62-MTP, A-2-DWP-AT and A-2-DWP, 2 pcs. | 5825 711 009 |
| **Adapter,** for 1 PCR plate (384 wells), for 384-well PCR plates, used in A-4-81-MTP/Flex, A-4-62-MTP, A-2-DWP-AT and A-2-DWP, 2 pcs. | 5825 713 001 |
| **IsoRack adapter,** for 24 vessels in the IsoRack 1.5/2.0 mL, for Rotors S-4x1000, S-4x1000 HC, S-4xUniversal-Large, S-4xUniversal, S-2xUniversal ID, S-4x750, S-4-104, S-4x500, A-4-81, A-2-DWP-AT (with SBS adapter) and A-2-DWP (with SBS adapter), for 24 × 1.5/2.0 mL tubes in the IsoRack, 2 pcs. | 5825 709 004 |
| **CombiSlide Adapter,** for 12 slides CombiSlide, for Rotors A-2-DWP and A-4-81 (MTP), 2 pcs. | 5825 706 005 |

# Detailed rotor overview

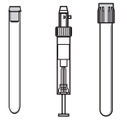
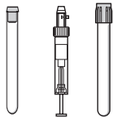
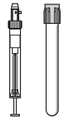
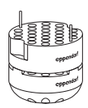



**Rotor S-4-104**

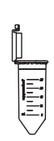
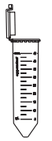
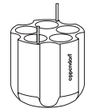
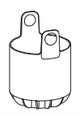
> Medium capacity swing-bucket rotor with max. speed 3,214 × *g* (3,900 rpm)
> Broad range of adapters enables high versatility for tubes and bottles from 0.2 mL to 750 mL and plates
> Aerodynamic round bucket design for up to 36 % energy savings compared to Rotor A-4-81

**Ordering information**

| Description | Order no. |
|---|---|
| **Rotor S-4-104,** incl. 4 × 750 mL round buckets | 5820 740 000 |
| **Rotor S-4-104,** aerosol-tight capable, incl. 4 plate buckets | 5820 754 001 |
| **Rotor S-4-104,** without buckets | 5820 755 008 |
| **Inlay for plate bucket,** for Rotor S-4-104, 4 pcs. | 5820 751 002 |
| **Plate carrier,** for Rotor S-4-104, 2 pcs. | 5820 756 004 |
| **Plate bucket,** for Rotor S-4-104, aerosol-tight capable, incl. plate carrier, 2 pcs. | 5820 744 006 |
| **Plate bucket,** for Rotor S-4-104, aerosol-tight capable, incl. plate carrier, 4 pcs. | 5820 743 000 |
| **Plate bucket (open),** for Rotor S-4-104, incl. plate carrier, 4 pcs. | 5820 757 000 |
| **Round bucket 750 mL,** for Rotor S-4-104, 2 pcs. | 5820 742 003 |
| **Round bucket 750 mL,** for Rotor S-4-104, aerosol-tight capable, 4 pcs. | 5820 741 007 |
| **Caps,** Rotor S-4-104, plate bucket, aerosol-tight, 2 pcs. | 5820 748 001 |
| **Caps for 750 mL/1,000 mL,** for Rotor S-4-104, aerosol-tight, 2 pcs. | 5820 747 005 |
| **Wide-neck bottle 750 mL,** for Rotor S-4-104, 2 pcs. | 5820 708 000 |

| **Adapters for Rotor S-4-104** |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|
| **Tube volume** | 1.5/2.0 mL | 12 × 75 mm, 5 mL FACS | 2.6–8 mL | 5.5–12 mL | 9 mL | 14 mL | Eppendorf Tubes® 5.0 mL and 15 mL conical |
| **Max. tube diameter** | 11 mm | 12 mm | 13 mm | 16 mm | 17.5 mm | 17.5 mm | 17 mm |
| **Max. vessel height** | 39 mm | 115 mm | 115 mm | 119 mm | 111 mm | 117 mm | 125 mm |
| **Max. vessel height for use with cap/lid*[1]** | 39 mm | 108 mm | 108 mm | 114 mm | 106 mm | 112 mm | 121 mm |
| **Adapter** |  |  |  |  |  |  |  |
| **Number of vessels per adapter/rotor** | 50/200 | 27/108 | 23/92 | 20/80 | 20/80 | 14/56 | 14/56 |
| **Bottom shape** | flat | round | round | round | round | round | conical |
| **Centrifugation radius** | 188 mm | 183 mm | 179 mm | 180 mm | 179 mm | 185 mm | 188 mm |
| **Max. RCF** | 3,197 × *g* | 3,112 × *g* | 3,044 × *g* | 3,061 × *g* | 3,044 × *g* | 3,146 × *g* | 3,197 × *g* |
| **Packaging** | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. |
| **Order no.** | 5825 740 009 | 5825 747 003 | 5825 738 004 | 5825 736 001 | 5825 743 008 | 5825 748 000 | 5825 734 009 |

*[1] Exceeding the maximum tube length may reduce the loading capacity of the rotor. Please perform a manual swing-out test before starting the centrifuge run to make sure the tubes do not hit the rotor yoke.
*[2] Please order adapter for 25 mL conical tubes snap cap 5820 733 004.
*[3] Please order adapter for 25 mL conical tubes screw cap 5820 734 000.
*[4] Please note that these conical bottles need to be used together with a conical form insert provided by the manufacturer.
*[5] 225 mL conical bottles from BD®/Corning® and 250 mL conical bottles from Nunc® for Rotor S-4-104 and S-4x750.

| |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|
| | 25 mL snap cap*[2] | 25 mL screw cap*[3] | 50 mL screw cap | 45 mL snap cap | 30 mL | 50 mL conical skirted | 250 mL flat, 175–225/250 mL conical*[4,5] | 500 mL Corning® | 750 mL | |
| | 30 mm | 30 mm | 30 mm | 30 mm | 25 mm | 30 mm | 62 mm | 96 mm | 102 mm | |
| | 83 mm | 78.5 mm | 122 mm | 122 mm | – | 120 mm | 145 mm | 147 mm | 140 mm | |
| | 83 mm | 78.5 mm | 116 mm | 116 mm | – | 116 mm | 125 mm | – | – | |
| | |  | | |  |  |  |  |  | |
| | 6/24 | 7/28 | 7/28 | 6/24 | 8/32 | 5/20 | 1/4 | 1/4 | 1/4 | |
| | conical | | | | flat | conical, skirted | flat | conical | flat | |
| | 161 mm | 151 mm | 187 mm | 187 mm | – | 178 mm | 183 mm | 187 mm | 185 mm | |
| | 2,737 × *g* | 2,567 × *g* | 3,180 × *g* | 3,180 × *g* | | 3,027 × *g* | 3,112 × *g* | 3,180 × *g* | 3,146 × *g* | |
| | 2 pcs. | | | | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | |
| | 5825 733 002 | | | | 5825 755 006 | 5825 732 006 | 5825 741 005 | 5825 745 000 | 5825 744 004 | |

# Detailed rotor overview



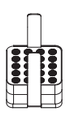
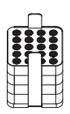
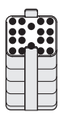
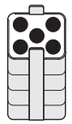

**Rotor A-4-81**

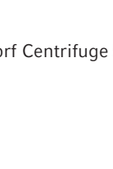
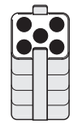
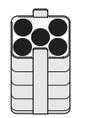
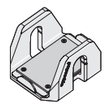
> Swing-bucket rotor with max. speed 3,220 × *g* (4,000 rpm)
> Rotor A-4-81 accommodates tubes and bottles from 0.2 mL to 500 mL as well as plates
> Aerosol-tight caps*[1] for safe centrifugation of hazardous samples optionally available

*[1] Aerosol-tightness tested by Public Health England, Porton Down, UK.

**Ordering information**

| Description | Order no. |
|---|---|
| **Rotor A-4-81,** for 500 mL rectangular buckets or MTP/Flex buckets, incl. 4 x 500 mL rectangular buckets | 5810 718 007 |
| **Rotor A-4-81,** without buckets | 5810 743 001 |
| **Rotor A-4-81-MTP/Flex,** Swing-bucket rotor, incl. 4x MTP/Flex buckets | 5810 725 003 |
| **Bucket for 7 × 50 mL conical tubes,** for Rotor A-4-81, 4 pcs. | 5825 730 003 |
| **Rectangular bucket 500 mL,** for Rotor A-4-81, 4 pcs. | 5810 730 007 |
| **Cap,** aerosol-tight, for 500 mL rectangular bucket, 2 pcs. | 5810 724 007 |
| **Wide-neck bottle 500 mL,** for Rotor A-4-81, rectangular, 2 pcs. | 5820 707 003 |
| **Wide-neck bottle 400 mL,** for Rotor A-4-81, lid blue, 2 pcs. | 5810 729 009 |
| **MTP/Flex buckets,** for Rotor A-4-81, for use with IsoRack and cell culture flask adapters as well as MTP and DWP, 2 pcs. | 5810 742 005 |
| **MTP/Flex buckets,** for Rotor A-4-81, for use with IsoRack and cell culture flask adapters as well as MTP and DWP, 4 pcs. | 5810 741 009 |

| **Adapters for Rotor A-4-81** |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|
| **Tube volume** | 1.5/2 mL | 1.2–5 mL | 2.6–5 mL | 2.6–7 mL | 3–15 mL | 7–17 mL | Eppendorf Tubes® 5.0 mL and 15 mL conical | 25 mL snap cap | 25 mL screw cap |
| **Max. tube diameter** | 11 mm | 11 mm | 13 mm | 13 mm | 16 mm | 17.5 mm | 17 mm | 30 mm | 30 mm |
| **Max. vessel height** | 43 mm | 108 mm | 108 mm | 108 mm | 108 mm | 118 mm | 121 mm | 83 mm | 78.5 mm |
| **Max. vessel height for use with cap/lid*[1]** | 43 mm | 108 mm | 107 mm | 108 mm | 108 mm | 108 mm | 121 mm | 116 mm | 78.5 mm |
| **Adapter** |  |  |  |  |  |  |  |  | |
| **Number of vessels per adapter/rotor** | 20/80 | 20/80 | 25/100 | 18/72 | 16/64 | 16/64 | 12/48 | 5/20 | 5/20 |
| **Bottom shape** | flat | flat with rubber mat | flat with rubber mat | flat with rubber mat | flat with rubber mat | flat with rubber mat | conical | conical | |
| **Centrifugation radius** | 165 mm | 168 mm | 168 mm | 168 mm | 168 mm | 168 mm | 173 mm | 158 mm | 148 mm |
| **Max. RCF** | 2,950 × *g* | 3,000 × *g* | 3,000 × *g* | 3,000 × *g* | 3,000 × *g* | 3,000 × *g* | 3,100 × *g* | 2,826 × *g* | 2,647 × *g* |
| **Packaging** | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | |
| **Order no.** | 5810 745 004 | 5810 746 000 | 5810 720 001 | 5810 747 007 | 5810 748 003 | 5810 721 008 | 5810 722 004 | 5810 723 000 | |

| **Adapters for Rotor A-4-81** |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Tube volume** | 50 mL screw cap | 45 mL snap cap | 25 mL snap cap*[2] | 25 mL screw cap*[3] | 50 mL screw cap | 45 mL snap cap | 30–50 mL round-bottom/ 50 mL conical, skirted*[4] | 180–250 mL flat/ 175–225 mL conical*[5] | 400 mL | 500 mL | MTP, DWP, PCR plates |
| **Max. tube diameter** | 30 mm | 30 mm | 30 mm | 30 mm | 30 mm | 30 mm | 30 mm | 61 mm | 62 mm | 83 mm | – |
| **Max. vessel height** | 122 mm | 122 mm | 83 mm | 78.5 mm | 122 mm | 122 mm | 121 mm | 133 mm | 133 mm | 134 mm | 60 mm |
| **Max. vessel height for use with cap/lid*[1]** | 116 mm | 116 mm | – | – | – | – | – | – | – | 134 mm | – |
| **Adapter** |  | |  | | | |  |  |  | – |  |
| **Number of vessels per adapter/rotor** | 5/20 | 5/20 | 7/28 | 7/28 | 7/28 | 7/28 | 5/20 | 1/4 | 1/4 | –/4 | 4/16 (MTP) 1/4 (DWP) |
| **Bottom shape** | conical | | conical | | | | flat with rubber mat | flat with rubber mat | flat, rubber | flat | flat with rubber mat |
| **Centrifugation radius** | 173 mm | 173 mm | 155 mm | 145 mm | 180 mm | 180 mm | 173 mm | 173 mm | 180 mm | 180 mm | 163 mm |
| **Max. RCF** | 3,100 × *g* | 3,100 × *g* | 2,772 × *g* | 2,593 × *g* | 3,220 × *g* | 3,220 × *g* | 3,100 × *g* | 3,100 × *g* | 3,220 × *g* | 3,220 × *g* | 2,900 × *g* |
| **Packaging** | 2 pcs. | | 4 pcs. | | | | 2 pcs. | 2 pcs. | 2 pcs. | – | 2 pcs. |
| **Order no.** | 5810 723 000 | | 5825 730 003 | | | | 5810 739 004 | 5825 722 000 | 5810 728 002 | – | 5810 742 005 |

*[1] Exceeding the maximum tube length may reduce the loading capacity of the rotor. Please perform a manual swing-out test before starting the centrifuge run to make sure the tubes do not hit the rotor yoke.
*[2] Please order adapter for 25 mL conical tubes snap cap 5820 733 004.
*[3] Please order adapter for 25 mL conical tubes screw cap 5820 734 000.
*[4] Please order adapter for 50 mL conical tubes skirted 5804 737 008 or 022654373 for U.S. and Canada.
*[5] Please note that these conical bottles need to be used together with a conical form insert provided by the manufacturer.

# Detailed rotor overview



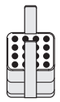

**Rotor A-4-62**

> Swing-bucket rotor with max. speed 3,220 × *g* (4,000 rpm)
> Rotor A-4-62 accommodates tubes and bottles from 0.2 mL to 250 mL as well as plates
> Aerosol-tight caps*[1] for safe centrifugation of hazardous samples optionally available

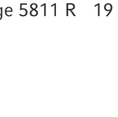
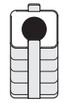
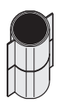
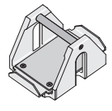
*[1] Aerosol-tightness tested by Public Health England, Porton Down, UK.

**Ordering information**

| Description | Order no. |
|---|---|
| **Rotor A-4-62,** incl. 4 × 250 mL rectangular buckets | 5810 709 008 |
| **Rotor A-4-62-MTP,** with 4x MTP buckets | 5810 711 002 |
| **MTP bucket for Rotor A-4-62,** for 4x MTP or 1x DWP, 4 pcs. | 5810 702 003 |
| **Caps,** for rectangular bucket 250 mL, aerosol-tight, 2 pcs. | 5810 710 006 |
| **Rectangular bucket 250 mL,** for Rotor A-4-62, 4 pcs. | 5810 716 004 |

| **Adapters for Rotor A-4-62** |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|
| **Tube volume** | 1.5/2 mL | 1.2–5 mL | 2.6–7 mL | 3–15 mL | 7–17 mL | Eppendorf Tube® 5.0 mL and 15 mL conical | 7–18 mL | 18–25 mL |
| **Max. tube diameter** | 11 mm | 11 mm | 13 mm | 16 mm | 17.5 mm | 17 mm | 20 mm | 26 mm |
| **Max. vessel height** | 43 mm | 123 mm | 121 mm | 121 mm | 118 mm | 127 mm | 126 mm | 119 mm |
| **Max. vessel height for use with cap/lid*[2]** | 43 mm | 115 mm | 118 mm | 116 mm | 114 mm | 121 mm | 119 mm | 116 mm |
| **Adapter** |  |  |  |  |  |  |  |  |
| **Number of vessels per adapter/rotor** | 16/64 | 25/100 | 15/60 | 12/48 | 12/48 | 9/36 | 8/32 | 4/16 |
| **Bottom shape** | flat | flat with rubber mat | flat with rubber mat | flat with rubber mat | flat with rubber mat | conical | flat with rubber mat | flat with rubber mat |
| **Centrifugation radius** | 171 mm | 173 mm | 173 mm | 173 mm | 173 mm | 178 mm | 173 mm | 173 mm |
| **Max. RCF** | 3,000 × *g* | 3,050 × *g* | 3,050 × *g* | 3,050 × *g* | 3,050 × *g* | 3,150 × *g* | 3,050 × *g* | 3,050 × *g* |
| **Packaging** | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. |
| **Order no.** | 5810 751 004 | 5810 750 008 | 5810 752 000 | 5810 753 007 | 5810 754 003 | 5810 755 000 | 5810 756 006 | 5810 757 002 |

*[2] Exceeding the maximum tube length may reduce the loading capacity of the rotor. Please perform a manual swing-out test before starting the centrifuge run to make sure the tubes do not hit the rotor yoke.
*[3] Please order adapter for 50 mL conical tubes skirted 5804 737 008.

|  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|
| 25 mL snap cap | 25 mL screw cap | 50 mL screw cap | 45 mL snap cap | 50 mL screw cap | 45 mL snap cap | 30–50 mL round-bottom/ 50 mL conical, skirted*[3] | 50–75 mL | 80–120 mL | 200–250 mL flat/175–225 mL conical | MTP, DWP, PCR plates |
| 30 mm | 30 mm | 30 mm | 30 mm | 30 mm | 30 mm | 30 mm | 35 mm | 45 mm | 62 mm | – |
| 83 mm | 78.5 mm | 122 mm | 118 mm | 122 mm | 122 mm | 115 mm | 122 mm | 138 mm | 136 mm | 53 mm |
| 83 mm | 78.5 mm | 116 mm | 116 mm | – | – | – | 118 mm | 125 mm | 127 mm | – |
| | |  | |  | |  |  |  |  |  |
| 3/12 | 3/12 | 3/12 | 3/12 | 4/16 | 4/16 | 4/16 | 2/8 | 1/4 | 1/4 | 4/16 (MTP) 1/4 (DWP) |
| conical | | | | flat with conical inlay | | flat with rubber mat | flat with rubber mat | flat with rubber mat | flat with rubber mat | flat with rubber mat |
| 151 mm | 141 mm | 178 mm | 173 mm | 173 mm | 173 mm | 173 mm | 173 mm | 173 mm | 180 mm | 154 mm |
| 2,701 × *g* | 2,522 × *g* | 3,150 × *g* | 3,050 × *g* | 3,050 × *g* | 3,050 × *g* | 3,050 × *g* | 3,050 × *g* | 3,050 × *g* | 3,220 × *g* | 2,750 × *g* |
| 2 pcs. | | | | 2 pcs. | | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 4 pcs. |
| 5810 758 009 | | | | 5810 763 002 | | 5810 759 005 | 5810 760 003 | 5810 761 000 | 5810 770 009 | 5810 702 003 |

# Detailed rotor overview




**Rotor S-4-72**

> Medium capacity swing-bucket rotor with speed up to 3,234 × *g* (4,200 rpm)
> Broad range of adapters available to handle all common tube formats from 0.2 mL to 250 mL
> Aerodynamic round bucket design for up to 48 % energy savings compared to Rotor A-4-62

**Ordering information**

| Description | Order no. |
|---|---|
| **Rotor S-4-72,** incl. 4 × 250 mL round buckets | 5804 746 007 |

| Adapters for Rotor S-4-72 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Tube volume** | 1.5/2.0 mL | 2.6–8 mL | 5.5–12 mL | 9 mL | Eppendorf Tubes® 5.0 mL | 15 mL conical | 25 mL snap cap*2 | 25 mL screw cap*3 | 50 mL screw cap | 45 mL snap cap | 50 mL conical skirted | 250 mL flat/ 175 mL Falcon®*4 |
| **Max. tube diameter** | 11 mm | 13 mm | 16 mm | 17.5 mm | 17 mm | 17 mm | 30 mm | 30 mm | 30 mm | 30 mm | 30 mm | 62 mm |
| **Max. vessel height** | 43 mm | 115 mm | 112 mm | 113 mm | 60 mm | 120 mm | 91 mm | 84.5 mm | 120 mm | 118 mm | 120 mm | 130 mm |
| **Adapter** | | | | | | | | | | | | |
| **Number of vessels per adapter/rotor** | 26/104 | 14/56 | 13/52 | 12/48 | 8/32*1 | 8/32 | 4/16 | 4/16 | 4/16 | 4/16 | 2/8 | 1/4 |
| **Bottom shape** | flat | round | round | round | conical | conical | conical | | | | conical | flat |
| **Centrifugation radius** | 159 mm | 159 mm | 157 mm | 158 mm | 163 mm | 164 mm | 137 mm | 128 mm | 164 mm | 164 mm | 153 mm | 161 mm |
| **Max. RCF** | 3,136 × *g* | 3,136 × *g* | 3,096 × *g* | 3,116 × *g* | 3,215 × *g* | 3,234 × *g* | 2,701 × *g* | 2,524 × *g* | 3,234 × *g* | 3,234 × *g* | 2,602 × *g* | 3,155 × *g* |
| **Packaging** | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | | | | 2 pcs. | 2 pcs. |
| **Order no.** | 5804 794 001 | 5804 789 008 | 5804 791 002 | 5804 792 009 | 5804 793 005 | 5804 783 000 | 5804 784 006 | | | | 5804 785 002 | 5804 787 005 |

*1 For Eppendorf Tubes® 5.0 mL with screw cap the capacity is limited to 6 tubes per adapter.
*2 Please order adapter for 25 mL conical tubes snap cap 5820 733 004.
*3 Please order adapter for 25 mL conical tubes screw cap 5820 734 000.
*4 Please note that these conical bottles need to be used together with a conical form insert provided by the manufacturer.

# Detailed rotor overview



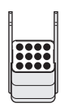
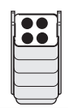
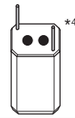
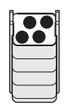
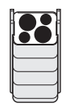

**Rotor A-4-44**

> High-speed swing-bucket rotor for applications up to 4,500 × *g* (5,000 rpm)
> Rotor A-4-44 accommodates tubes from 0.2 mL to 100 mL
> Aerosol-tight caps*[1] for safe centrifugation of hazardous samples optionally available

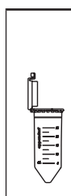
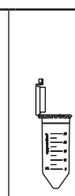
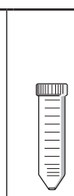
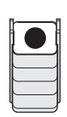
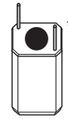
*[1] Aerosol-tightness tested by Public Health England, Porton Down, UK.

**Ordering information**

| Description | Order no. |
|---|---|
| **Rotor A-4-44,** incl. 4 × 100 mL rectangular buckets | 5804 709 004 |
| **Bucket for 2 × 50 mL conical tubes,** for Rotor A-4-44, 4 pcs. | 5804 706 005 |
| **Rotor A-4-44,** incl. 4 buckets for 2 × 50 mL conical tubes | 5804 719 000 |
| **Rectangular bucket 100 mL,** for Rotor A-4-44, 4 pcs. | 5804 741 005 |
| **Caps,** for 100 mL rectangular bucket, aerosol-tight, 2 pcs. | 5804 712 005 |
| **Adapter Insert,** insert for 50 mL conical tubes with skirted bottom, 8 pcs. | 5804 737 008 |

| Adapters for Rotor A-4-44 |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|
| **Tube volume** | 1.5/2 mL | 1.2–5 mL | 2.6–7 mL | 3–15 mL | 7–17 mL | Eppendorf Tubes® 5.0 mL and 15 mL conical tubes | 15 mL conical | 7–18 mL | 18–30 mL |
| **Max. tube diameter** | 11 mm | 11 mm | 13 mm | 16 mm | 17.5 mm | 17 mm | 17 mm | 20 mm | 26 mm |
| **Max. vessel height** | 43 mm | 105 mm | 108 mm | 108 mm | 110 mm | 121 mm | 121 mm | 107 mm | 110 mm |
| **Max. vessel height for use with cap/lid*[1]** | 43 mm | 102 mm | 106 mm | 106 mm | 106 mm | – | 121 mm | 104 mm | 100 mm |
| **Adapter** |  |  |  |  |  |  |  *[4] |  |  |
| **Number of vessels per adapter/rotor** | 12/48 | 14/56 | 9/36 | 7/28 | 6/24 | 4/16 | 2/8 | 4/16 | 2/8 |
| **Bottom shape** | flat | flat with rubber mat | flat with rubber mat | flat with rubber mat | flat with rubber mat | conical | conical | flat with rubber mat | flat with rubber mat |
| **Centrifugation radius** | 148 mm | 150 mm | 150 mm | 150 mm | 150 mm | 155 mm | 157 mm | 150 mm | 150 mm |
| **Max. RCF** | 4,100 × *g* | 4,200 × *g* | 4,200 × *g* | 4,200 × *g* | 4,200 × *g* | 4,332 × *g* | 4,388 × *g* | 4,200 × *g* | 4,200 × *g* |
| **Packaging** | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. |
| **Order no.** | 5804 751 000 | 5804 750 004 | 5804 752 007 | 5804 753 003 | 5804 754 000 | 5804 755 006 | 5804 717 007 | 5804 756 002 | 5804 757 009 |

*[1] Exceeding the maximum tube length may reduce the loading capacity of the rotor. Please perform a manual swing-out test before starting the centrifuge run to make sure the tubes do not hit the rotor yoke.
*[2] Please order adapter for 25 mL conical tubes snap cap 5820 733 004.
*[3] Please order adapter for 25 mL conical tubes screw cap 5820 734 000.
*[4] Not autoclavable.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 mL snap cap | 25 mL screw cap | 50 mL screw cap | 45 mL snap cap | 25 mL snap cap | 25 mL screw cap | 50 mL screw cap | 45 mL snap cap | 50 mL conical, skirted | 50 mL screw cap | 45 mL snap cap | 50–75 mL | 80–100 mL |
| 30 mm | 30 mm | 30 mm | 30 mm | 30 mm | 30 mm | 30 mm | 30 mm | 30 mm | – | – | 35 mm | 45 mm |
| 83 mm | 78.5 mm | 122 mm | 119 mm | 78.5 mm | 78.5 mm | 122 mm | 119 mm | 122 mm | 120 mm | 120 mm | 119 mm | 114 mm |
| 83 mm | 78.5 mm | 116 mm | 116 mm | 78.5 mm | 78.5 mm | 119 mm | 116 mm | 108 mm | – | – | 108 mm | 100 mm |
| |  | | | |  *[4] | | |  |  |  |  |  |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | –/8 | –/8 | 1/4 | 1/4 |
| conical | | | | conical | | | | flat with rubber mat | flat with conical inlay | | flat with rubber mat | flat with rubber mat |
| 124 mm | 114 mm | 155 mm | 155 mm | 126 mm | 116 mm | 157 mm | 157 mm | 150 mm | 161 mm | 161 mm | 150 mm | 150 mm |
| 3,465 × *g* | 3,186 × *g* | 4,332 × *g* | 4,332 × *g* | 4,500 × *g* | 4,500 × *g* | 4,300 × *g* | 4,400 × *g* | 4,200 × *g* | 4,500 × *g* | 4,500 × *g* | 4,200 × *g* | 4,200 × *g* |
| 2 pcs. | | | | 2 pcs. | | | | 2 pcs. | 4 pcs. | | 2 pcs. | 2 pcs. |
| 5810 758 005 | | | | 5804 718 003 | | | | 5804 759 001 | 5804 706 005 | | 5804 760 000 | 5804 761 006 |

# Detailed rotor overview



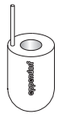
**Rotor F-34-6-38**

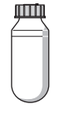
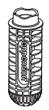
> For molecular applications in tubes from 0.2 mL to 85 mL
> Max. speed: 18,514 × *g* (12,000 rpm) in Centrifuge 5811 R*[1]
> Low rotor weight (3.2 kg) for easy handling

*[1] Rotors F-34-6-38 and FA-45-6-30 maintain 4 °C at 11,000 rpm.

**Ordering information**

| Description | Order no. |
|---|---|
| **Rotor F-34-6-38,** incl. rotor lid, for 6 × 85 mL tubes | 5804 727 002 |
| **Rotor lid,** for F-34-6-38, for Centrifuge 58xx | 5804 727 509 |

| Adapters for Rotor F-34-6-38 |  |  |  |  |  |
|---|---|---|---|---|---|
| **Tube Volume** | 1.5/2 mL | 2–5 mL (13 × 75 mm) | 4–7 mL (13 × 100 mm) | 7–15 mL | Eppendorf Tubes® 5.0 mL |
| **Max. tube diameter** | 11 mm | 13 mm | 13 mm | 16 mm | 17 mm |
| **Max. vessel height for use with cap/lid** | 43 mm | 80 mm | 107 mm | 112 mm | – |
| **Adapter** |  |  |  |  |  |
| **Number of vessels per adapter/rotor** | 4/24 | 3/18 | 3/18 | 2/12 | 1/6 |
| **Bottom shape** | round | flat | flat | round | conical |
| **Centrifugation radius** | 113 mm | 106 mm | 114 mm | 112 mm | 105 mm |
| **Max. RCF at 12,000 rpm** | 18,200 × *g* | 17,065 × *g* | 18,353 × *g* | 18,000 × *g* | 16,842 × *g* |
| **Packaging** | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. |
| **Order no.** | 5804 770 005 | 5804 738 004 | 5804 739 000 | 5804 771 001 | 5804 777 000 |

|  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|
| 15 mL conical | 15–18 mL | 20–30 mL | 25 mL screw cap*[2] | 50 mL screw cap | 45 mL snap cap | 50 mL | 85 mL |
| 17.5 mm | 18 mm | 26 mm | 30 mm | 30 mm | 30 mm | 29 mm | 38 mm |
| 123 mm | 123 mm | 123 mm | 78.5 mm | 117 mm | 118 mm | 123 mm | 121 mm |
|  |  |  | |  | |  | – |
| 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/4 | 1/6 | –/6 |
| conical | round | round | | conical | | round | round |
| 10.7 | 10.9 | 11.0 | 87 mm | 108 mm | 108 mm | 112 mm | 115 mm |
| 17,200 × *g* | 17,550 × *g* | 17,700 × *g* | 14,070 × *g* | 17,387 × *g* | 17,387 × *g* | 18,014 × *g* | 18,500 × *g* |
| 2 pcs. | 2 pcs. | 2 pcs. | | 2 pcs. | | 2 pcs. | 2 pcs. |
| 5804 776 003 | 5804 772 008 | 5804 773 004 | | 5804 775 007 | | 5804 774 000 | – |

*[2] Nominal tube volume as published by the tube manufacturer.

# Detailed rotor overview





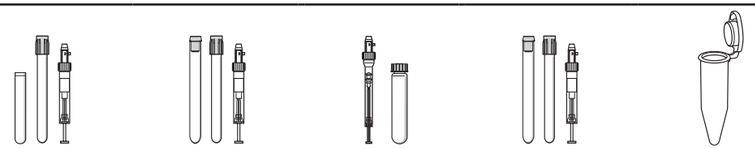
**Rotor FA-45-6-30**

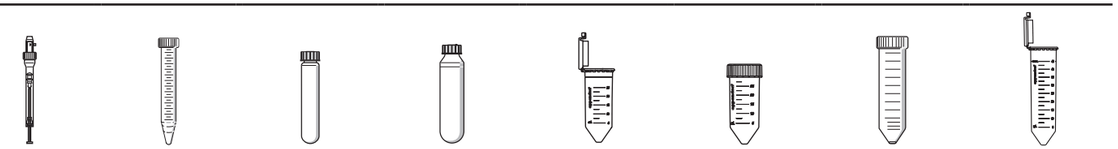
> High-speed rotor for applications in tubes from 5–50 mL
> Max. speed 20,133 × *g* (12,100 rpm) in Centrifuge 5811 R*[1]
> Aerosol-tight Eppendorf QuickLock® rotor lid for fast lid*[2] locking

*[1] Rotors F-34-6-38 and FA-45-6-30 maintain 4 °C at 11,000 rpm.
*[2] Aerosol-tightness tested by Public Health England, Porton Down, UK.

**Ordering information**

| Description | Order no. |
|---|---|
| **Rotor FA-45-6-30,** aerosol-tight, incl. rotor lid, for 6 × 15/50 mL conical tubes | 5820 715 006 |





| Adapters for Rotor FA-45-6-30 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Tube Volume** | 2.6–5 mL | 4–8 mL | 5.5–10 mL | 7.5–12 mL | Eppendorf Tubes® 5.0 mL | 7–17 mL | 15 mL | 16 mL | 30 mL | 25 mL snap cap | 25 mL screw cap | 50 mL screw cap | 45 mL snap cap |
| **Max. tube diameter** | 13.5 mm | 13.5 mm | 16 mm | 16 mm | 17 mm | 17.5 mm | 17 mm | 18 mm | 26 mm | 30 mm | 30 mm | 30 mm | 30 mm |
| **Max. vessel height for use with cap/lid** | – | 119 mm | – | 119 mm | – | 112 mm | 125 mm | 107 mm | 104 mm | 94 mm | 85 mm | 127 mm | 122 mm |
| **Adapter** | | | | | | | | | | | | – | – |
| **Number of vessels per adapter/rotor** | 1/6 | 1/6 | 1/6 | 1/6 | 1/6*[3] | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | 1/6 | –/6 | –/6 |
| **Bottom shape** | round | round | round | round | conical | round | conical | round | round | conical | conical | conical | conical |
| **Centrifugation radius** | 120 mm | 120 mm | 120 mm | 120 mm | 121 mm | 120 mm | 120 mm | 120 mm | 105 mm | 104 mm | 97 mm | 123 mm | 123 mm |
| **Max. RCF at 12,100 rpm** | 19,642 × *g* | 19,642 × *g* | 19,642 × *g* | 19,642 × *g* | 19,806 × *g* | 19,642 × *g* | 19,642 × *g* | 19,642 × *g* | 17,187 × *g* | 17,023 × *g* | 15,878 × *g* | 20,133 × *g* | 20,133 × *g* |
| **Packaging** | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 2 pcs. | 6 pcs. | 6 pcs. | – | – |
| **Order no.** | 5820 726 008 | 5820 725 001 | 5820 728 000 | 5820 727 004 | 5820 730 005 | 5820 729 007 | 5820 717 009 | 5820 720 000 | 5820 721 006 | 5820 733 004 | 5820 734 000 | – | – |

*[3] Eppendorf Tubes® 5.0 mL with screw cap will not fit in this adapter.

# Detailed rotor overview



**Rotor F-35-48-17**
> High-capacity fixed-angle rotor for
> 15 mL conical and glass tubes
> Max. speed: 5,005 × *g* (5,500 rpm)
> Form inserts for 15 mL conical tubes



**Rotor FA-45-20-17**
> 20 places for Eppendorf Tubes® 5.0 mL
> Max. speed: 20,913 × *g* (13,100 rpm)
> Eppendorf QuickLock rotor lid for fast lid locking
> Rotor, lid and adapters are autoclavable
> Anodized aluminum for high chemical resistance



**Rotors F-45-30-11 and FA-45-30-11**
> 30 places for 1.5/2.0 mL tubes
> Max. speed: 20,817 × *g* (14,000 rpm)
> Rotor FA-45-30-11 comes with aerosol-tight* lid for? Safe centrifugation of hazardous samples
> Rotors and lids are autoclavable



**Rotor FA-45-48-11**
> 48 places for 1.5/2.0 mL tubes
> Max. speed: 19,083 × *g* (max. 13,000 rpm)
> Eppendorf QuickLock rotor lid for fast lid locking
> Aerosol-tight* for safe centrifugation of hazardous samples
> Anodized aluminum for high chemical resistance
> Rotor and lid are autoclavable

**Ordering information**

| Description | Order no. |
|---|---|
| **Rotor F-35-48-17,** incl. 48 steel sleeves for 15 mL tubes, with 40 conical inserts and 48 rubber mats | 5820 772 000 |
| **Rotor F-35-48-17,** incl. 24 steel sleeves for 15 mL tubes, with 24 conical inserts and 24 rubber mats | 5820 771 003 |
| **Rotor FA-45-20-17,** 20 × 5.0 mL, incl. aerosol-tight Eppendorf QuickLock® rotor lid | 5820 765 003 |
| **Adapter** for 1.5/2.0 mL tubes, set of 4 | 5820 768 002 |
| **Adapter** for cryogenic vials, set of 4 | 5820 769 009 |
| **Adapter** for HPLC tubes, set of 4 | 5820 770 007 |

**Ordering information**

| Description | Order no. |
|---|---|
| **Rotor FA-45-48-11,** incl. aerosol-tight Eppendorf QuickLock® rotor lid | 5820 760 001 |
| **Rotor FA-45-30-11,** 30 × 1.5/2.0 mL, with aluminum lid, aerosol-tight* | 5804 726 006 |
| **Rotor F-45-30-11,** 30 × 1.5/2.0 mL, with aluminum lid | 5804 715 004 |
| **Adapter** for 0.2 mL PCR tubes (for 1.5/2.0 mL rotors), set of 6 | 5425 715 005 |
| **Adapter** for 0.4 mL tubes (for 1.5/2.0 mL rotors), set of 6 | 5425 717 008 |
| **Adapter** for 0.5 mL tubes or Microtainer® (for 1.5/2.0 mL rotors), set of 6 | 5425 716 001 |

* Aerosol-tightness is tested and certified by Public Health England, Porton Down, UK.



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| Service Agreement | AdvancedCare<br>For assured instrument reliability and uptime | PremiumCare<br>For assured instrument reliability, uptime and financial plannability |
|---|---|---|
| Full preventive maintenance | 1/year | 1/year |
| Priority support*[1] | ■ | ■ |
| Parts, labor, travel on repairs | 20% discount | included |
| Discount on additional services (e.g. IQ/OQ) | 10% | 10% |

*[1] Subject to local business conditions, and based on a »best-effort« practise. For more information, please contact your local service organization.

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|---|---|---|
| Check of delivery status, and installation environment | ■ | – |
| Initial configuration, functional*[2] and safety checks. | ■ | – |
| Detailed IQ report | ■ | – |
| Test of notification and alert functions | ■ | ■ |
| Verification of instrument parameters*[2] (e.g. temperature, speed) | ■ | ■ |
| Detailed OQ report and handling of deviation list | ■ | ■ |
| Signed approval by customer and service technician | ■ | ■ |

*[2] According to manufacturer specifications.

# Centrifuge 5811 R at a glance

**Key Features**

**Sustainability**
> Propane-based cooling system (GWP 0.02)
> ECO shut-off function and aerodynamic bucket design for reduced energy consumption
> ACT 2.0 ecolabel

**Ergonomics and convenience**
> Aerosol-tight Eppendorf QuickLock® rotor lids and caps for safe and stressless operation

**Versatility**
> 7 different swing-bucket rotors (incl. 2 plate rotors)
> 7 different fixed-angle rotors with speeds up to 20,913 × *g*
> Mixed bucket loading for enhanced flexibility

**Additional Features**
> Broad adapter portfolio for different vessel types and sample volumes offer outstanding versatility
> Low loading height for convenient and easy loading and unloading
> Light-weight rotor design for convenient handling
> Soft-touch lid closure

**Certifications**

**Company**
> ISO 9001
> ISO 14001
> ISO 13485

**Centrifuge**
> EU Declaration of Conformity (incl. all relevant directives and safety standards)
> Factory acceptance test/Inspection report
> Certificate of containment testing for aerosol-tight rotors

| Technical Specifications | |
|---|---|
| **Maximum Speed** | |
| **Max. RCF** | |
| > Fixed-angle rotors | 20,913 × *g* |
| > Swing-bucket rotor | 4,500 × *g* |
| **Max. rotational speed** | 14,000 rpm |
| **Max. capacity** | 4 × 750 mL |
| **Max. power consumption** | 1,650 W (230 V) / 1,300 W (120 V) |
| **Noise level** | < 56 dB(A)*[1] |
| **Temperature range** | –9 °C to 40 °C |
| **Detachable power cord** | yes |

| Materials of construction and refrigerant | |
|---|---|
| **Housing** | Galvanized steel with chemical resistance powder coating |
| **Front part and outer lid** | Flame-retardant thermoplastic |
| **Rotor bowl** | Stainless steel |
| **Fixed-angle rotors** | Aluminum |
| **Swing-bucket rotor** | Aluminum/Stainless steel |
| **Refrigerant** | R290 (90 g) |

| Dimensions | |
|---|---|
| **W x D x H** | 700 × 646 × 353 mm |
| **Height with open lid** | 793 mm |
| **Footprint** | |
| > Base plate | 700 × 591 mm |
| > Foot spacing | 670 × 473 mm |
| **Weight (w/o accessories)** | 89 kg |
| **Shipping weight** | 115 kg |

*[1] With Rotor S-4-104.



# Ordering information

| Ordering information | |
|---|---|
| **Description** | **Order no.** |
| **Centrifuge 5811 R,** refrigerated | See URL below table |
| **Rotor** | |
| **Rotor S-4-104** | 5820 740 000 |
| **Rotor A-4-81** | 5810 718 007 |
| **Rotor A-4-62** | 5810 709 008 |
| **Rotor S-4-72** | 5804 746 007 |
| **Rotor A-4-44** | 5804 709 004 |
| **Rotor A-2-DWP-AT** | 5820 710 004 |
| **Rotor A-2-DWP** | 5804 740 009 |
| **Rotor F-34-6-38** | 5804 727 002 |
| **Rotor FA-45-6-30** | 5820 715 006 |
| **Rotor FA-45-20-17** | 5820 765 003 |
| **Rotor FA-45-48-11** | 5820 760 001 |
| **Rotor F-45-30-11** | 5804 726 006 |
| **Rotor FA-45-30-11** | 5804 715 004 |
| **Rotor F-35-48-17** | 5820 765 000 |

For ordering information, please check our local website or contact your local sales representative.

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