

5702
5702 R
5702 RH

One... Two... Three

The 5702 Family of Centrifuges

eppendorf

From a solo career to a successful trio

The Eppendorf 5702 family of centrifuges

Customer's needs are the reason we continue to advance our success story for the 5702 series.

We have expanded the line with the addition of two new models: the refrigerated **Centrifuge 5702 R** and the temperature controlled **Centrifuge 5702 RH**.

All 5702 models can be used in a range of settings, from the clinical lab to the cell culture lab. With various fixed-angle and swing-bucket rotors available, they can accommodate almost any kind of tube.

An other advantage is that we have designed all rotors within the 5702 line to be interchangeable.

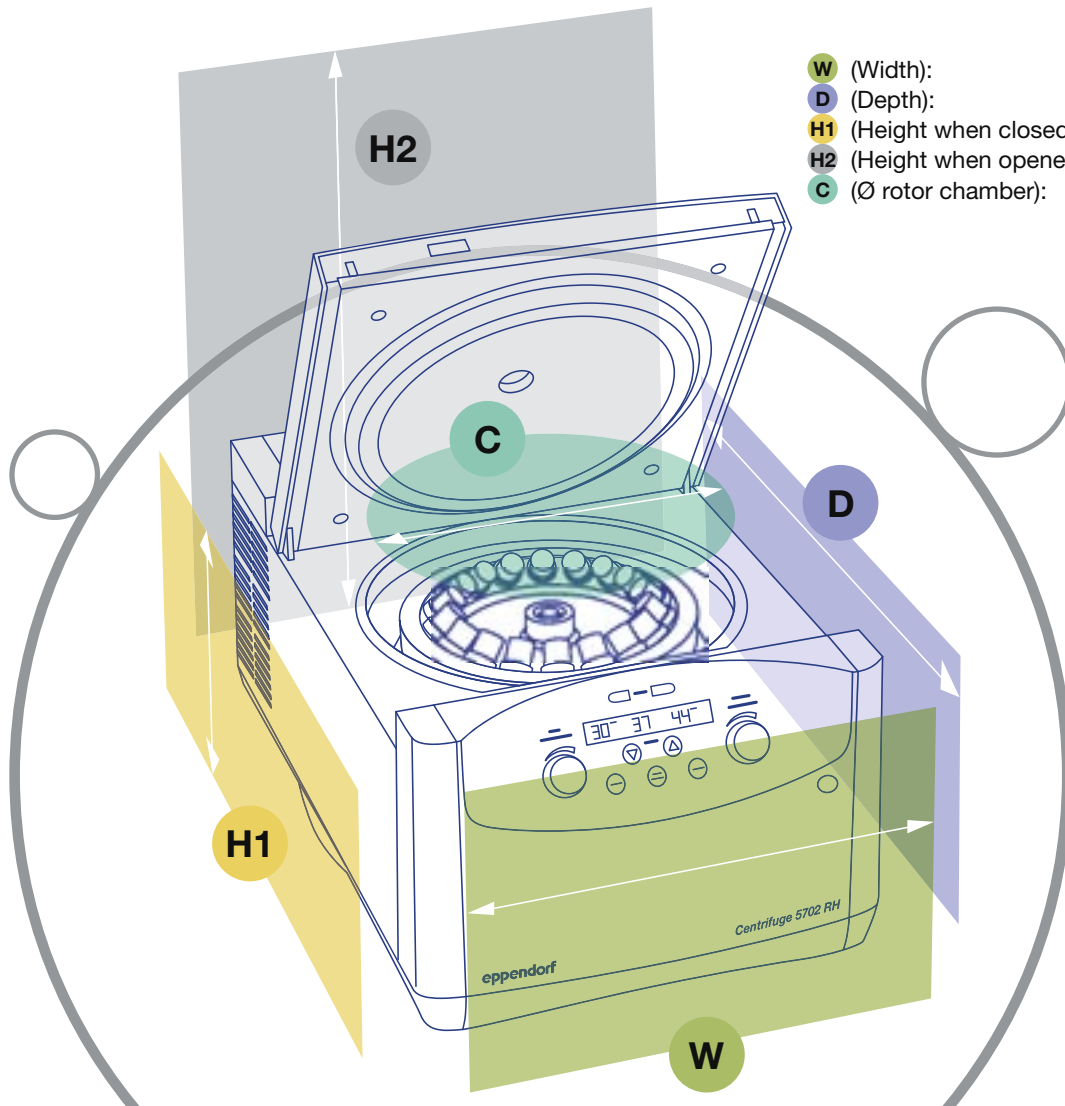
What do all of the 5702 models have in common?

Product features

- Very compact design
- Low access height (see scale on the left side of the page)
- Dials and digital display
- Automatic motorized locking of the lid
- Slow startup and braking through the SOFT function
- Stainless steel rotor chamber (rust-proof)
- Optimized air flow directed backwards
- Conforms to the following safety and application requirements:



W (Width):	32–38 cm
D (Depth):	40–58 cm
H1 (Height when closed):	24–26 cm
H2 (Height when opened):	52.3–59.5 cm
C (Ø rotor chamber):	28.5–31 cm



Model 1: for clinical applications

Centrifuge 5702 (no temperature control)

The economical centrifuge for the clinical lab.
With various fixed-angle and swing-bucket rotors
and an extensive range of adapters, nearly all
types of tubes can be used.



Specific product feature

- Automatic lid release following application sequence

Application example for Centrifuge 5702:

Rotor A-4-38
including round bucket
(5702 720.003) with adapter
(5702 719.005) for Vacuette^{®*},
Monovette^{®**} or Vacutainer^{®***}
2.6 ml–7 ml for infectious samples
(with aerosol-tight lid).



Clinical applications include:

- Routine centrifugation
- Plasma and serum purification

* Registered trademark of Greiner Bio-One.
** Registered trademark of Sarstedt.
*** Registered trademark of Becton Dickinson.

Model 2: safe for refrigerated samples

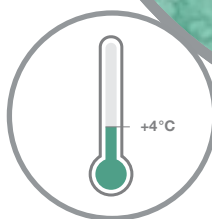
Centrifuge 5702 R (refrigerated)

This model has all the product characteristics that make refrigerated Eppendorf centrifuges so outstanding:

If the centrifuge has not yet reached the correct temperature via standby refrigeration, you can quickly reach the desired temperature by using the “fast temp” function. Like-wise, standby refrigeration will maintain a particular temperature following use. Precise centrifugation is made possible through the “at set rpm” function, time is counted down once the set rpm is reached. As a result, different centrifugal runs can be more easily reproduced.

Specific product features

- Adjustable from -9°C to 40°C
- Standby refrigeration
- “fast temp” function
- “at set rpm” function
- Two programming keys to store routine procedures (back-lit in blue)



Application example for Centrifuge 5702 R:

Rotor **F-35-30-17**
including 30 steel sleeves
(5702 704.008) for Falcon®
20 x 15 ml tubes



Molecular biology applications include:

- Centrifugation of cell cultures
- Safe holding at 4°C
- Spin down centrifugation of bacterial suspension

Model 3: precise and active temperature control

Centrifuge 5702 RH (temperature-controlled)

Your body feels active at 37 °C. What about your cells?
For active cells, Eppendorf offers a centrifuge with unique temperature control capabilities. It is the first centrifuge from Eppendorf that can consistently maintain special temperatures above room temperature. Temperature-sensitive cells or cell cultures can be centrifuged at defined temperatures, particularly at or near 37 °C.



Specific product features

- Adjustable from -9 °C to 42 °C
- Immediately ready-for-use via standby heating/refrigeration
- Temperature holds steady at 4 °C and at 37 °C ± 1 °C
- Active heating
- More precise temperature control, software-controlled (rotor-dependent)



Application example for Centrifuge 5702 RH:

Rotor **F-45-24-11** (5702 746.002)
or **F-45-18-17 Cryo**
(5702 747.009)
and adapter
(5702 752.002)



Human medicine applications include:

- Gentle centrifugation of sperm (IVF labs)
- Spin down centrifugation of temperature-sensitive human cells

Operation: simply intuitive

All 5702 centrifuges have a user-friendly control panel with a small number of clearly-labeled function keys/ knobs and an easy-to-read LCD display.

Simple operation

- Large dials and an easy-to-read display
- Switch between rpm/rcf
- Speed can be set from 100 rpm to a max. of 4,400 rpm, increments of 100
- Separate “short-spin” button
- Timer can be set for up to 99 minutes
- Continuous mode can be selected

Temperature control versions:

- Two programming keys to store routine procedures
- Separate “fast-temp” key



Rotors

Swing-bucket rotors for the Centrifuges 5702 / 5702 R / 5702 RH



Swing-bucket rotor A-4-38

- Aluminum rotor available with and without round buckets
- Four aerosol-tight round buckets of 85 ml capacity
- Aerosol-tight lids*
- Optional: 4 rectangular buckets of 90 ml capacity
- Maximum rotational speed: 4,400 rpm (max. rcf: 3,000 x g)
- High g-forces even with short tubes
- Round buckets for centrifugation of blood samples

* Tested by the Centre for Applied Microbiology & Research (CAMR), Porton Down, Great Britain.

Swing-bucket rotor A-8-17

- Equipped with 8 inserts
- Maximum rotational speed: 4,400 rpm (max. rcf: 2,800 x g)
- Centrifugation of 15 ml Falcon® tubes and glass test tubes possible
- Optional: inserts to fit test tubes (sold separately)

Fixed-angle rotors for the Centrifuges 5702 / 5702 R / 5702 RH



Fixed-angle rotor F-45-24-11

- Maximum rcf: 1,770 x g
- Low-noise centrifugation, even without rotor lid
- Autoclavable (121 °C, 20 min)
- Centrifugation of 1.5 ml and 2 ml Eppendorf Tubes
- Adapter for:
 - 0.2 ml PCR tubes
 - 0.4 ml centrifuge tubes
 - 0.5 ml micro test tubes and 0.6 ml Microtainer® tubes

Fixed-angle rotor F-45-18-17-Cryo

- Maximum rcf: 1,840 x g
- Low-noise centrifugation, even without rotor lid
- Rotor and adapter are autoclavable (121 °C, 20 min)
- Centrifugation of 1ml–2 ml Cryotubes (max. 13 mm Ø, use with adapter) and screw-cap centrifugation tubes (max. 17 mm Ø, adapter not needed)



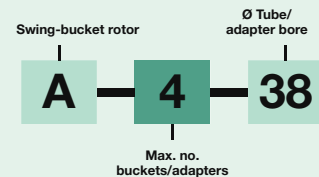
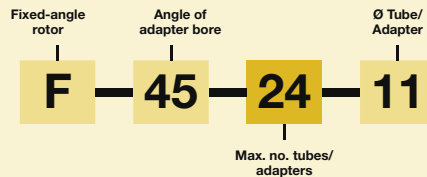
Fixed-angle rotor F-35-30-17

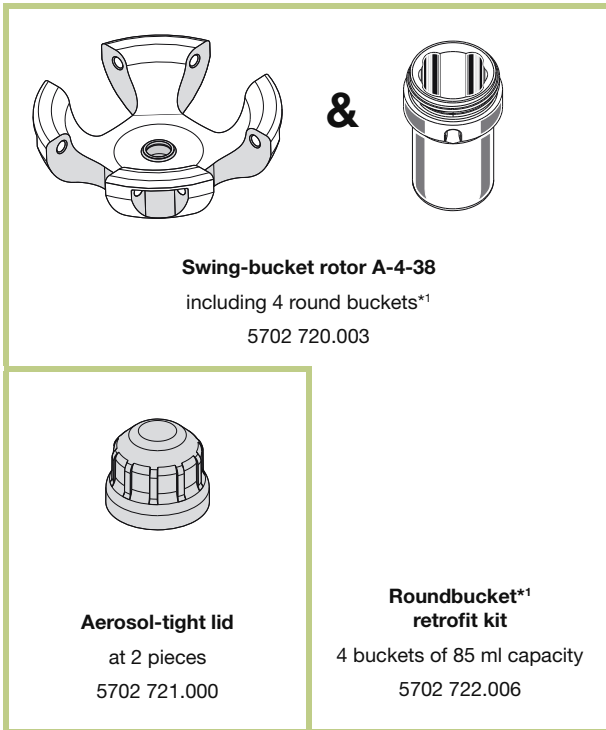
- Aluminum rotor available with 10 or 30 steel sleeves, depending on the number of samples
- Centrifugation of 15 ml Falcon® tubes and glass test tubes
- Supplied inserts allow symmetrical heterogeneous loading
- Maximum rotational speed: 4,400 rpm (max. rcf: 2,750 x g)

® : Registered trademark of Becton Dickinson.

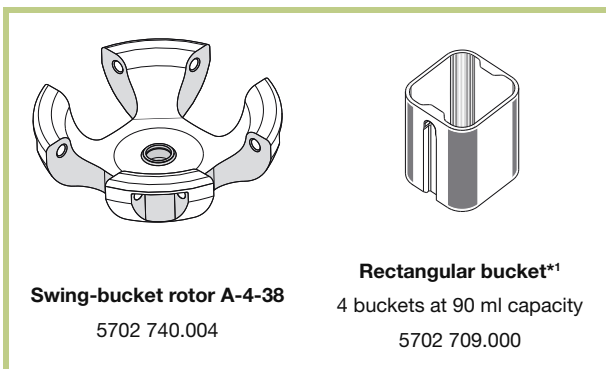
Rotor code

All Eppendorf rotors are designated according to a simple, logical system which describes the technical specifications as a uniform series of numbers and letters e.g.:





Tube type		
Volumes (ml)	1.5–2.0	1.1–1.4
Adapter		
Order number	5702 745.006	5702 736.007
Maximum tube length for all positions below the lid (mm) ^{*2}	–	100
Maximum tube length for all positions without the lid (mm) ^{*2}	–	100
Number of tubes per adapter/per rotor	4/16	5/20
Adapter bore (Ø mm)	11	8.5
Maximum rcf (g-force)	2,900	2,850
Centrifugation radius (mm)	134	132



Tube type		
Volumes (ml)	5–7	9
Adapter		
Order number	5702 710.008	5702 711.004
Maximum tube length for all positions below the lid (mm) ^{*2}	100	100
Maximum tube length for all positions without the lid (mm) ^{*2}	–	–
Number of tubes per adapter/per rotor	10/40	8/32
Adapter bore (Ø mm)	13	14.5
Maximum rcf (g-force)	2,750	2,750
Centrifugation radius (mm)	127	127

®: Registered trademark of Becton Dickinson.



*1 Swing-bucket rotors are delivered with buckets of one weight class. Adapters and tubes, which together do not exceed a maximum weight of **0.19 kg**, can be put in one round bucket. Rectangular bucket sets are delivered with buckets of one weight class. Adapters and tubes, which together do not exceed a maximum of **0.24 kg**, can be put in one rectangular bucket.

The following applies to rotors with round buckets, as well as to rotors with rectangular buckets: The total weight of a loaded bucket (including adapter and filled tubes) may not exceed **0.38 kg**. The weight given on the rotor applies to buckets (including their load).

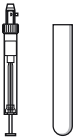
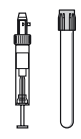
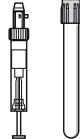
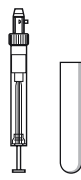




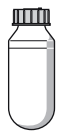


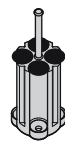
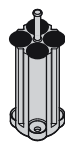

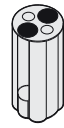



*2 If the maximum tube length is exceeded, the loading capacity of the adapter may be reduced. Please perform a manual swing test.






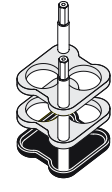
*3 Warning: Aerosol-tight centrifugation not possible.

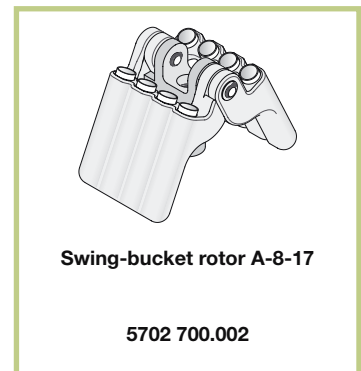
*4 Nominal volume

Adapter, caps and rotor are autoclavable at 121 °C 20 min.

Attention! Observe safety precautions and operating manual.

								
2-7	2.6-7	4-10	9-15	15 ml Falcon®	15 ml Falcon®	25	50 ml Falcon®	85 ⁴
								
5702 737.003	5702 719.005	5702 735.000	5702 724.009	5702 732.001	5702 723.002	5702 717.002	5702 734.004	5702 718.009
100	100	100	100	120	-	100	115	106
100	100	100	100	121	121	100	115	106
5/20	4/16	4/16	4/16	1/4	2/8	1/4	1/4	1/4
12.5	13.5	16	17.5	17.2	17.2	25	30	38
2,850	2,850	2,850	2,800	3,000	3,000	2,900	2,900	2,900
132	132	132	130	137	137	135	135	135

		
15	20	25
		
5702 712.000	5702 713.007	5702 716.006
100	100	100
-	-	-
6/24	4/16	2/8
17.5	22	25
2,750	2,750	2,750
127	127	127



Centrifuges 5702 / 5702 R / 5702 RH, Rotors and Accessories

Technical specifications

Description	Centrifuge 5702	Centrifuge 5702 R	Centrifuge 5702 RH
Dimensions (W x D x H)	32 x 40 x 24 cm	38 x 58 x 26 cm	38 x 58 x 26 cm
Weight	20 kg	36 kg	36 kg
Max. power requirement	200 W	380 W	380 W
Power supply	230 V/50 Hz	230 V/50 Hz	230 V/50 Hz

Ordering Information

Description	Order no.
Centrifuge 5702	
230 V/50–60 Hz, without rotor	5702 000.019
Centrifuge 5702 R	
230 V/50–60 Hz, without rotor, refrigerated	5703 000.012
Centrifuge 5702 RH	
230 V/50–60 Hz, without rotor, refrigerated and heated	5704 000.016

Ordering Information: Accessories

Rotor model and accessories	Max. rotational speed (rpm)	Max. rcf (x g)	Order no.
A-4-38 Swing-bucket rotor			
incl. 4 x 85 ml round buckets	4,400	3,000	5702 720.003
without buckets	4,400	3,000	5702 740.004
4 Round buckets, 85 ml			5702 722.006
2 Round buckets, 85 ml			5702 761.001
4 Rectangular buckets*, 90 ml			5702 709.000
2 Rectangular buckets*, 90 ml			5702 762.008
Aerosol-tight lids for 85 ml round buckets, set of 2			5702 721.000
Rubber mats			
for adapter 5702 737.003, set of 20			5702 741.000
for adapter 5702 735.000, set of 20			5702 742.007
for adapter 5702 724.009 (models before 2003), set of 16			5702 759.007
A-8-17 Swing-bucket rotor			
8 x 15 ml	4,400	2,800	5702 700.002
8 Adapters , for 15 ml Falcon® tubes			5702 702.005
8 Rubber mats , for 15 ml			5702 701.009
F-35-30-17 Fixed-angle rotor			
30 x 15 ml, incl. 20 Falcon® adapters and 30 rubber mats	4,400	2,750	5702 704.008
10 x 15 ml, incl. 10 Falcon® adapters and 10 rubber mats	4,400	2,750	5702 705.004
10 Steel sleeves, 15 ml			5702 707.007
10 Adapters , for 15 ml Falcon®			5702 706.000
10 Rubber mats , for 15 ml			5702 708.003
F-45-24-11			
Fixed-angle rotor 24 x 1.5/2 ml, without lid	4,400	1,770	5702 746.002
F-45-18-17-Cryo			
without lid	4,400	1,840	5702 747.009
6 Adapters for 1 ml–2 ml Cryo tubes			5702 752.002

* Not for use with aerosol-tight lids.

®: Falcon is a registered trademark of Becton Dickinson.

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