








Eppendorf® centrifuges guide



Centrifuges	Microcentrifuges						
							
Application	MiniSpin®	MiniSpin® plus	5418	5424	5430	5415 R	5417 R
Refrigerated	–	–	–	–	–	●	●
Page	126	126	128	129	131	135	136
Fixed-angle rotor							
rcf max. (x g)	12,100	14,000	16,873	20,238	30,130	16,100	25,000
rpm max.	13,400	14,500	14,000	14,680	17,500	13,200	16,400
Swing-bucket rotor							
rcf max. (x g)	–	–	–	–	2,204	–	10,600
rpm max.	–	–	–	–	4,680	–	10,000
Drum rotor							
rcf max. (x g)	–	–	–	–	–	–	–
rpm max.	–	–	–	–	–	–	–
Vessels/plates							
0.2–0.6 ml Eppendorf Tubes®	12	12	18	24	30	36	30
1.5 ml Eppendorf Tubes	12	12	18	24	30	24	30 (F)/8 (A)
2.0 ml Eppendorf Tubes	12	12	18	24	30	24	30 (F)/8 (A)
8-place PCR strips	2	2	–	4	8	–	6
15 ml Falcon®	–	–	–	–	6	–	–
50 ml Falcon	–	–	–	–	6	–	–
1.2–5 ml tubes (11 mm Ø)	–	–	–	–	–	–	–
2.6–7 ml tubes (13 mm Ø)	–	–	–	–	–	–	–
3–15 ml tubes (16 mm Ø)	–	–	–	–	–	–	–
7–17 ml tubes (17.5 mm Ø)	–	–	–	–	–	–	–
7–18 ml tubes (20 mm Ø)	–	–	–	–	–	–	–
18–30 ml tubes (26 mm Ø)	–	–	–	–	–	–	–
30–50 ml tubes (31 mm Ø)	–	–	–	–	–	–	–
50–75 ml tubes (35 mm Ø)	–	–	–	–	–	–	–
80–100 ml tubes (35 mm Ø)	–	–	–	–	–	–	–
180–250 ml tubes bottles (62 mm Ø)	–	–	–	–	–	–	–
20–30 ml Oak Ridge tubes (29 mm Ø)	–	–	–	–	–	–	–
50 ml Oak Ridge tubes (29 mm Ø)	–	–	–	–	–	–	–
85 ml Oak Ridge tubes (38 mm Ø)	–	–	–	–	–	–	–
400 ml bottles	–	–	–	–	–	–	–
MTP / PCR-plates	–	–	–	–	4*1	–	–
Deepwell plates (DWP)	–	–	–	–	–	–	–
Filter plate systems	–	–	–	–	–	–	–








F = Fixed Angle
A = Swing Bucket
T = Drum rotor

* Note: the proper adapters are required to obtain maximum capacity; please check the appropriate rotor and/or adapter combination for proper capacity and sizing.

** Max. loading height: 29 mm.

Eppendorf® centrifuges guide



Small Medical Centrifuges			Multipurpose Benchtop Centrifuges			
						
5702	5702 R	5702 RH	5804	5804 R	5810	5810 R
–	●	●/Heated	–	●	–	●
139	139	139	148	148	148	148
3,000	3,000	3,000	20,800	20,800	20,800	20,800
4,400	4,400	4,400	14,000	14,000	14,000	14,000
–	–	–	4,500	4,500	4,500	4,500
–	–	–	5,000	5,000	5,000	5,000
–	–	–	16,400	16,400	16,400	16,400
–	–	–	14,000	14,000	14,000	14,000
	24 (F)/16 (A)		30 (F)/120 (T)		30 (F)/120 (T)	
	24 (F)/16 (A)		30 (F)/96 (A)/60 (T)		30 (F)/96 (A)/60 (T)	
	24 (F)/16 (A)		30 (F)/96 (A)/60 (T)		30 (F)/96 (A)/60 (T)	
	–		6		6	
	20 (F)/8 (A)		6 (F)/16 (A)		6 (F)/48 (A)	
	4 (A)		6 (F)/8 (A)		6 (F)/20 (A)	
	–		56 (A)		100 (A)	
	40 (A) (rectangular bucket)/16 (A) (round bucket)		36 (A)		100 (A)	
	16 (A) (round bucket)		48 (A)		48 (A)	
	24 (A) (rectangular bucket)/16 (A) (round bucket)		24 (A)		64 (A)	
	–		16 (A)		32 (A)	
	–		8 (A)		16 (A)	
	–		4 (A)		16 (A)	
	–		4 (A)		8 (A)	
	–		4 (A)		4 (A)	
	–		–		4 (A)	
	–		6 (F)		6 (F)	
	–		6 (F)		6 (F)	
	4		6 (F)		6 (F)	
	–		–		4 (A)	
	–		10 (A)		16 (A)	
	–		4 (A)		4 (A)	
	–		4 (A)		4 (A)	

Centrifuges 5804/5804 R and 5810/5810 R

Product features

- Interchangeable swing-bucket and high-speed fixed-angle rotors
- Spin up to 14,000 rpm, or 20,800 x g
- Low-profile 28 cm access height for easy sample loading
- Automatic rotor recognition senses rotor type to set maximum allowable speed—ensures safety
- Fast, simple programming of time, temperature (refrigerated models), speed/g-force and radius values
- 34 user-defined programs
- Adjustable-speed
- Short Spin button
- 10 acceleration and braking rates

Cooling

- Fast Cool function precools chamber in as little as 15 minutes
- Temperature range from -9 °C to 40 °C
- Standby refrigeration keeps rotor chamber at set temperature while lid is closed
- Rotors can be spun at maximum speed and still maintain 4 °C (Except Rotor F-34-6-38 9°C at max. speed) (230 V refrigerated versions)



Simple operation

- Speed, g-force and radius correction values can be entered
- Values can be changed during centrifugation
- Temperature range from -9 °C to 40 °C, with Fast Cool function for rapid cooling of the centrifuge chamber*¹
- Standby cooling*¹ maintains temperature when not in use
- Speed can be set from 200 rpm to maximum speed in increments of 10 rpm
- Short Spin button
- Selectable program memory for up to 34 individual user programs
- Ten acceleration and deceleration rates for sensitive sample material

*¹ Refrigerated Centrifuges 5804 R and 5810 R only.



Centrifuges 5804/5804 R and 5810/5810 R

Unparalleled versatility

Featuring powerful, maintenance-free motors, these models accommodate a variety of rotors to meet your application needs. They are three centrifuges in one: a high-capacity, general-purpose centrifuge for cell harvesting; a high-speed centrifuge for separating cell lysates; and a microcentrifuge for DNA precipitations.

For lower capacity needs in one compact unit, Model 5804 and refrigerated Model 5804 R spin volumes from 0.2 ml to 4 x 100 ml at low-to-high speeds for a wide range of applications. These centrifuges can accommodate capacities of up to 16 x 15 ml conical (Falcon®) or 30 microcentrifuge tubes per run.

Model 5810 and refrigerated Model 5810 R offer maximum application versatility and popular tube capacity, accommodating up to 4 x 400 ml tubes or 16 microplates. These compact, benchtop centrifuges achieve remarkable throughput of up to 48 x 15 ml or 20 x 50 ml conical (Falcon®) tubes.



Technical specifications

Description	Centrifuge 5804	Centrifuge 5804 R	Centrifuge 5810	Centrifuge 5810 R
Weight	55 kg	80 kg	68 kg	99 kg
Power supply	230 V / 50–60 Hz	230 V / 50–60 Hz	230 V / 50–60 Hz	230 V / 50–60 Hz
Max. power requirement	900 W	1,650 W	900 W	1,650 W
Dimensions (W x D x H)	47 x 55 x 34 cm	64 x 55 x 34 cm	54 x 61 x 35 cm	70 x 61 x 35 cm

Ordering information

Description	Order no.
Centrifuge 5804 , benchtop centrifuge, without rotor	5804 000.013
Centrifuge 5804 R , benchtop centrifuge, without rotor, refrigerated	5805 000.017
Centrifuge 5810 , benchtop centrifuge, without rotor	5810 000.017
Centrifuge 5810 R , benchtop centrifuge, without rotor, refrigerated	5811 000.010

Please ask about our special versions with serial interfaces.



Interchangeable rotors and adapters

Simple adapters for swing-bucket rotors

- All rotors, buckets and adapters are autoclavable (121 °C, 20 min)
- Stackable modular adapters for swing-bucket rotors are easy to disassemble for vessels of different lengths
- Adapters are color-coded for quick and simple identification
- Buckets can be easily sealed with aerosol-tight covers to provide protection against biohazardous samples

Description

Our multipurpose centrifuges accommodate both fixed-angle and swing-bucket rotors for a variety of applications. A large selection of adapters allows maximum application flexibility with a minimum number of rotors.

Their modular construction allows centrifugation of virtually all commercially available tubes. The adapter modules can be stacked until the required tube height is attained and then lowered onto the holders in the rectangular buckets. Additional exchangeable swing buckets for MTPs and 50 ml conical tubes are available.

With the Robotic Centrifuge **5810 RA** order no. 5811 000.304, 230 V/50 Hz, we offer also an OEM version now. Its loading hatch way and the rotor-indexing are controlled, together with all other centrifuge functions via RS 232 interface. Please ask for a separate brochure.

The stable plastic adapters are solidly constructed and can be easily cleaned—even autoclaved in their entirety in the event of contamination with biologically active sample material.



Overview of rotors for Centrifuges 5804/5804 R and 5810/5810 R

Description

Centrifuges 5804 (refrigerated version 5804 R) and 5810 (refrigerated version 5810 R) together with the high-performance, high-capacity swing-bucket rotors accommodate virtually all commercially available tubes from 0.5 ml to 400 ml.

Buckets for microplates and deepwell plates can be inserted directly into our swing-bucket rotors to accommodate commonly used filter-plate systems.

The rotor family for Centrifuges 5804/5804 R and 5810/5810 R consists of fixed-angle rotors for tubes from 0.2 ml to 85 ml, a special rotor for PCR strips and a drum rotor for up to 60 x 1.5/2 ml micro test tubes. Please note, however, that Swing-bucket Rotors A-4-81 (4 x 400 ml), A-4-81-MTP/Flex, A-4-62 (4 x 250 ml) and A-4-62-MTP can only be used in Models 5810/5810 R (see Table below).

A rotor stand that fits all rotors for Centrifuges 5804/5804 R and 5810/5810 R is also available.



Rotors for Models 5804/5804 R and 5810/5810 R

Rotor	Max. capacity (ml)	Max. rotational speed (rpm)	Max. rcf (x g)	Max. radius (cm)	5804/5804 R	5810/5810 R	Aerosol-tight**1 centrifugation possible
Swing-bucket rotors							
A-4-44	4 x 100	5,000	4,500	16.1	●	●	●
A-2-DWP	4 x Deepwell plates	3,700	2,250	14.7	●	●	–
A-4-81*2	4 x 400	4,000	3,250	18.0	–	●	●
A-4-81-MTP/Flex*2	4 x Deepwell plates	4,000	2,900	15.3	–	●	–
A-4-62*3	4 x 250	4,000	5,200	18.0	–	●	●
A-4-62-MTP*3	4 x Deepwell plates	4,000	2,750	15.4	–	●	–
Fixed-angle rotors							
F-34-6-38	6 x 85	11,000	15,550	11.5	●	●	–
F-34-6-38	6 x 85	12,000	18,500	11.5	–	only 5810 R	–
F-45-30-11	30 x 2	14,000	20,800	9.5	●	●	–
FA-45-30-11	30 x 2	14,000	20,800	9.5	●	●	●
F-45-48-PCR	6 x 8 PCR strips	12,000	15,350	9.5	●	●	–
Drum rotor							
T-60-11	60 x 2	14,000	16,400	7.5	●	●	–

*1 Aerosol-tightness has been tested and approved in accordance with the procedure of Bennett et al. from the Centre for Applied Microbiology & Research, CAMR, Port Down, Great Britain, and according to annex AA of the IEC 1010-2-020 safety standard. The test procedure simulates the accidental release of biological material (bacteria) inside the closed rotor or closed rectangular bucket. Air and swab samples are taken to ensure that no material is released from the closed rectangular buckets or closed rotor during operation.

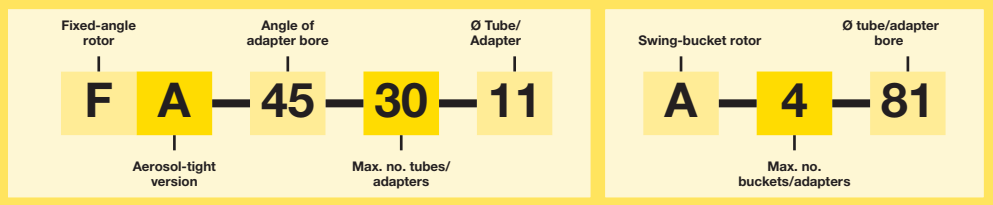
*2 The Swing-bucket Rotor can be ordered as A-4-81 (loaded with tube buckets) or as A-4-81-MTP/Flex (loaded with microplate buckets).

*3 The Swing-bucket Rotor can be ordered as A-4-62 (loaded with tube buckets) or as A-4-62-MTP (loaded with microplate buckets).



Rotor code:

All Eppendorf® rotors are identified using a simple, alphanumeric format that represents the technical specifications in a uniform series of letters and numbers.



Interchangeable rotors for Centrifuges 5804/5804 R and 5810/5810 R

Swing-bucket Rotor A-2-DWP

- 4 x Deepwell plate
- Commercial nucleic acid purification kits up to a maximum height of 89 mm can be used
- Different combinations of stacked plates can be centrifuged
- Simultaneous processing of up to 192 samples
- Max. rotational speed: 3,700 rpm (max. rcf: 2,250 x g)
- Rotor and buckets are autoclavable (121 °C, 20 min)



Drum Rotor T-60-11

- 60 x 1.5/2.0 ml tubes
- Horizontal centrifugation at high relative centrifugal force
- Ideal for low sample quantities
- Pellet formation at tube bottom
- At max. speed of 14,000 rpm (max. rcf: 16,400 x g) a temperature of 4 °C is maintained in Models 5804 R and 5810 R

Ordering information

Description	Max. rotational speed (rpm)	Max. rcf (x g)	Order no.
A-2-DWP			
Deepwell plate rotor, with 2 buckets, height of load up to 89 mm	3,700	2,250	5804 740.009
T-60-11			
Drum rotor, with lid, for use with 6 adapters	14,000	16,400	5804 730.003



Interchangeable rotors for Centrifuges 5804/5804 R and 5810/5810 R



Fixed-angle Rotor F-34-6-38

- 6 x 85 ml
- Six boreholes for different tubes (max. tube size: 85 ml)
- Max. rotational speed: 11,000 rpm (max. rcf: 15,550 x g)
- When used in Model 5810 R: max. rotational speed 12,000 rpm (max. rcf: 18,500 x g)
- Conical tubes, such as 15 ml and 50 ml Falcon® tubes, can be centrifuged with adapters in the fixed-angle rotor*1
- Rotor, caps and adapters are autoclavable (121 °C, 20 min)

*1 Please observe the limits for tube load-bearing capacity as specified by the tube manufacturer.

®: Registered trademark of Becton Dickinson.

Fixed-angle Rotors F-45-30-11 and FA-45-30-11

- 30-place for 1.5/2.0 ml tubes
- Max. rotational speed: 14,000 rpm (max. rcf: 20,800 x g)
- Rotor, lids and adapters are autoclavable (121 °C, 20 min)
- Rotor FA-45-30-11 with lid can be autoclaved for 2 h at 140 °C to destroy prion contamination
- High-quality, extremely robust aluminum lid for both rotors
- Aerosol-tight*1 centrifugation possible with Rotor FA-45-30-11

*1 Tested by the Centre for Applied Microbiology and Research, CAMR, Porton Down, Great Britain.



Ordering information

Description	Max. rotational speed (rpm)	Max. rcf (x g)	Order no.
F-34-6-38			
Fixed-angle rotor 6 x 85 ml, with lid	11,000/ 12,000 (in 5810 R)	15,550/ 18,500 (in 5810 R)	5804 727.002
F-45-30-11			
Fixed-angle rotor 30 x 1.5/2 ml, with aluminium lid	14,000	20,800	5804 715.004
FA-45-30-11			
Fixed-angle rotor 30 x 1.5/2 ml, with aluminium lid, aerosol-tight*1	14,000	20,800	5804 726.006

*1 Aerosol-tightness of lid tested by the Centre for Applied Microbiology & Research, Porton Down, CAMR, Great Britain.



Interchangeable rotors for Centrifuges 5804/5804 R and 5810/5810 R



PCR-strip Rotor F-45-48-PCR

- 6 x 8-place
- Max. rotational speed 12,000 rpm (max. rcf: 15,350 x g)
- Accomodates up to 6 x 8-tube strips, 6 x 5-tube strips or 48 x 0.2 ml PCR tubes
- Safe and easy handling without additional lid

Swing-bucket rotor A-4-44

- 4 x 100 ml rectangular buckets for high capacity
- Flexible adapters for a wide range of tubes
- Max. rotational speed: 5,000 rpm (max. rcf: 4,500 x g)
- Caps for aerosol-tight*1 centrifugation
- Rotor, buckets, caps and adapters are autoclavable (121 °C, 20 min)
- Also available with four buckets for 50 ml conical tubes

*1 Tested by the Centre for Applied Microbiology and Research, CAMR, Porton Down, Great Britain.



Ordering information

Description	Max. rotational speed (rpm)	Max. rcf (x g)	Order no.
F-45-48-PCR			
Fixed-angle rotor for 6 x 8-tube, 6 x 5-tube strips or 48 x 0.2 ml PCR tubes	12,000	15,350	5804 735.005
A-4-44			
Swing-bucket rotor, with 4 x 100 ml rectangular buckets	5,000	4,400	5804 709.004
Swing-bucket rotor, with 4 Falcon®-buckets*1	5,000	4,500	5804 719.000

*1 Not for use with aerosol-tight caps.

®: Registered trademark.



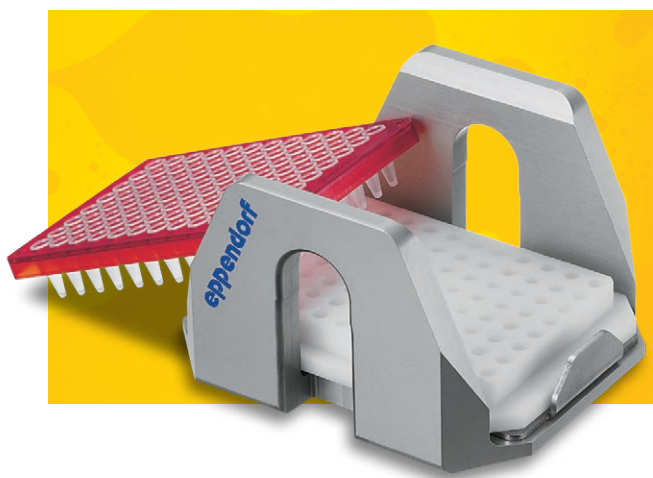
Interchangeable rotors for Centrifuges 5804/5804 R and 5810/5810 R

CombiSlide™ adapter for MTP buckets

- Safe centrifugation support for glass slides and micro-arrays for MTP and DWP rotors
- Maximum of 12 slides per bucket
- Also fits in A-2-DWP for Models 5804 and 5804 R
- Most flexible: novel slot frames allow centrifugation either across or parallel to the rotational direction
- Max. rcf at 1,000 x g (for A-4-81-MTP/Flex and A-4-62-MTP)



Centrifugation | Instruments



PCR plate adapter for MTP/Flex bucket

- Safe centrifugation of PCR plates (skirted, unskirted and semi-skirted)
- Two versions for 96- and 384-well PCR plates available
- For use in all MTP and DWP rotors
- Optimized bores for most commonly available PCR plates
- Max. rcf at 2,700 x g (4,000 rpm) for A-4-81-MTP/Flex

Ordering information

Description	Order no.
CombiSlide	
Slide adapter, set of 2	5825 706.005
PCR plate adapter	
For 96-well plates, set of 2	5825 711.009
For 384-well plates, set of 2	5825 713.001

Rotors exclusively for Centrifuges 5810 and 5810 R

Swing-bucket Rotor A-4-81

- 4 x 400 ml rectangular buckets for high capacity
- Ideal for medical and biotechnology laboratories: flexible adapters enable high sample throughput
- Max. rotational speed: 4,000 rpm (max. rcf: 3,250 x g)
- Caps for aerosol-tight** centrifugation
- Rotor, buckets, caps and adapters are autoclavable (121 °C, 20 min)

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

Swing-bucket Rotor A-4-81-MTP/Flex

- 4-place Microplate Rotor
- Swing-bucket Rotor A-4-81 can be upgraded with 4 MTP/Flex buckets to the MTP rotor A-4-81-MTP/Flex
- Accommodates up to 16 microplates, 12 culture plates or 4 deepwell plates
- Flex buckets (see page 158) expand the functional range
- Max. rotational speed: 4,000 rpm (max. rcf: 2,900 x g)



● For maximum capacity and flexibility, the 4 x 400 ml swing-bucket-rotor A-4-81



Rotors exclusively for Centrifuges 5810 and 5810 R



Swing-bucket Rotor A-4-62

- 4 x 250 ml
- All-in-one rotor for 4 x 250 ml rectangular buckets and 4 MTP buckets
- Flexible adapters for a wide range of tubes
- With rectangular buckets max. rotational speed: 4,000 rpm (max. rcf: 3,200 x g)
- Rotor, buckets, rectangular buckets, caps and adapters are autoclavable (121 °C, 20 min)
- Caps for aerosol-tight*1 centrifugation

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

Swing-bucket Rotor A-4-62-MTP

- Upgrade Swing-bucket Rotor A-4-62 with 4 MTP buckets
- For up to 16 microplates, 12 culture plates or 4 deepwell plates
- With MTP buckets max. rotational speed: 4,000 rpm (max. rcf: 2,750 x g)



Ordering information

Description	Max. rotational speed (rpm)	Max. rcf (x g)	Order no.
A-4-81			
Swing-bucket rotor, with 4 x 400 ml rectangular buckets*1	4,000	3,250	5810 718.007
Swing-bucket rotor, without buckets*1	4,000	3,250	5810 743.001
A-4-81-MTP/Flex			
Swing-bucket rotor, with 4 MTP/Flex buckets*1	4,000	2,900	5810 725.003
A-4-62			
Swing-bucket rotor, with 4 x 250 ml rectangular buckets	4,000	3,200	5810 709.008
A-4-62-MTP			
Swing-bucket rotor, with 4 MTP buckets	4,000	2,750	5810 711.002

*1 A minor electrical modification may be necessary when retrofitting older 5810 / 5810 R centrifuges for the use of the A-4-81-MTP.



Rotor accessories for Centrifuges 5810 and 5810 R



MTP/Flex buckets (special microplate buckets) for A-4-81

- These special MTP/Flex buckets have a wider application range than the standard A-4-81-MTP buckets
- The adapters shown are exclusively designed for use with IsoRacks and cell culture flasks.

IsoRack adapter for MTP/Flex buckets

- A permanently safe centrifugation support is now available for IsoRacks (see page 119)
- A total of up to 96 tubes can be used in the swing-bucket rotor
- Two versions for 0.5 ml or 1.5 ml/2.0 ml tubes available
- Max. rcf at 4,000 rpm: 2,600 x g (1.5/2.0ml) 2,700 x g (0.5 ml)



Ordering information

Description	Order no.
MTP/Flex buckets	
4 pieces	5810 741.009
2 pieces (for mixed loading)	5810 742.005
1 piece	5810 744.008
IsoRack starter set for Flex buckets	
2 x IsoRack adapter, 2 x IsoRack with lid and 2 x cool packs (0 °C IsoPack) for 0.5 ml and 1.5/2 ml micro test tubes	5825 721.004



Rotors for Centrifuges 5810/5810 R

Approximate braking times for different rotors at levels 0 to 9 (in seconds) for 230 V* centrifuges

5804/ 5804 R	5810/ 5810 R	Max. volume	Rotor	0	1	2	3	4	5	6	7	8	9
–	●	4 x 400 ml	A-4-81	532	189	174	143	131	109	95	85	59	31
–	●		A-4-81-MTP/Flex	643	191	174	142	131	110	94	83	58	30
–	●	4 x 250 ml	A-4-62	740	190	170	140	130	110	95	85	55	26
–	●		A-4-62-MTP	620	190	170	140	130	110	95	85	55	26
●	●	4 x 100 ml	A-4-44	470	300	270	220	200	140	100	75	45	23
●	●		A-2-DWP	304	174	130	118	100	75	51	44	32	14
●	●	60 x 2 ml	T-60-11	800	280	140	95	70	55	45	40	36	36
●	●	6 x 85 ml	F-34-6-38	880	370	280	190	170	150	125	95	75	54
●	●	30 x 1,5/2,0 ml	F-45-30-11	240	140	70	45	35	30	25	22	19	18
●	●	30 x 1,5/2,0 ml	FA-45-30-11	240	140	70	45	35	30	25	22	19	18
●	●		FA-45-48-PCR	169	119	60	41	31	26	22	19	17	16

The given times are to be considered guidelines. While level 9 means "strongest braking," level 0 means "free deceleration," whereby considerable fluctuations can occur with this uncontrolled deceleration, depending upon the condition of the device and the load.

*The deceleration times for the 230 V and 120 V devices are almost identical.

Max. volume	Rotor	Max. rotational speed (rpm)	lowest attainable temp. Location: max. rotational speed*1	Max. additional load*2	Max. total weight of the buckets*3	Max. load height of the MTP buckets	Autoclavable (121 °C at 20 min)
Swing-bucket rotors							
4 x 400 ml	A-4-81	4,000	< 4 °C	780 g	1,350 g	–	●
	A-4-81-MTP/Flex	4,000	< 0 °C	380 g	1,350 g	60 mm	●
4 x 250 ml	A-4-62	4,000	≤ 2 °C	630 g	1,100 g	–	●
	A-4-62-MTP	4,000	< 0 °C	380 g	1,100 g	53 mm	●
4 x 100 ml	A-4-44	5,000	≤ 4 °C	310 g	600 g	–	●
	A-2-DWP	3,700	< 0 °C	380 g	1,000 g	89 mm	●
Fixed-angle rotors							
6 x 85 ml	F-34-6-38	11,000 (5804 R) 12,000 (5810 R)	9 °C	6 x 85 ml	–	–	●
30 x 1.5/ 2.0 ml	F-45-30-11 / FA-45-30-11	14,000	≤ 3 °C	30 x 2 ml	–	–	●

*1 23° C room temperature, 1h run time

*2 Adapter, tubes and filling.

*3 Buckets, adapters, tubes and filling.

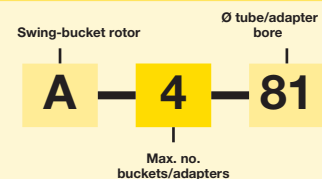
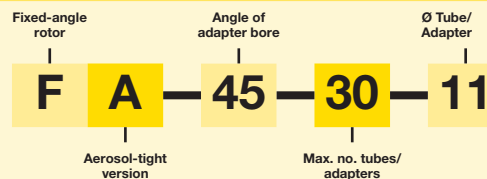
Info



When the maximum tube length is exceeded, this can decrease the load capacity of the adapters. In this case please be sure to carry out a manual swing test. In addition, the use of tubes with oversized lids can result in a decrease of the load capacity of the adapter. Swing-bucket rotors are delivered with buckets from one weight class. When reordering buckets, please provide the already existing weight class. This is imprinted in the side of the nut, e.g., "86." Please note the manufacturer specifications for the maximum centrifugation capacity of tubes, kits, plates and plate stacks.

Rotor code:

All Eppendorf® rotors are identified using a simple, alphanumeric format that represents the technical specifications in a uniform series of letters and numbers.



Rotors for Centrifuges 5804/5804 R and 5810/5810 R



Description	F-45-30-11 Fixed-angle Rotor, with lid, for micro test tubes 30 x 1.5/2 ml	FA-45-30-11 Aerosol-tight Fixed-angle Rotor, with lid, for micro test tubes 30 x 1.5/2 ml
Order no.	5804 715.004	5804 726.006

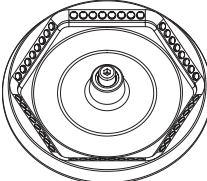
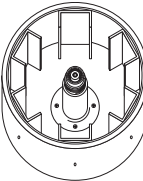
Tube (Please observe the limits for the load-bearing capacity of the tubes as specified by the tube manufacturer)					
Tube capacity (ml)	1.5-2	0.2	0.4	0.5	0.6
Adapter for 30 x 1.5/2 ml Fixed-angle Rotor for use with PCR and micro test tubes					
Adapter	can be used without adapter				
Number of tubes per rotor	-/30	1/30	1/30	1/30	1/30
Adapter bore (ø mm)	-	6	6	8	8
Max. rcf (g-force)	20,800	16,200	20,800	18,400	20,800
Centrifugation radius (mm)	95	74	95	84	95
Max. rotational speed (rpm) (4 °C is maintained securely in the 5804 R/ 5810 R at a room temperature of 23 °C)	14,000	14,000	14,000	14,000	14,000
Order no.	-	5425 715.005	5425 717.008	5425 716.001	5425 716.001
(set of 6 adapters)					



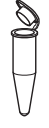


Adapters, lids and rotor are autoclavable at 121 °C, 20 min.

Attention! Observe safety precautions and operating manual.

Rotors for Centrifuges 5804/5804 R and 5810/5810 R

		
Description	F-45-48-PCR Fixed-angle Rotor, for 6 x 5- and 8-tube strips or 48 x 0.2 ml PCR tubes	T-60-11 Drum Rotor, 60 x 1.5/2 ml
Order no.	5804 735.005	5804 730.003

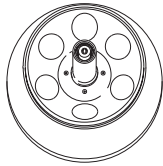
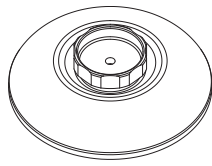
Tube				
Tube capacity (ml)	8-tube strips	0.2	0.4	1.5-2
Max. tube length for all positions (mm)*	–	–	120	120
Adapter for Drum Rotor				
Number of tubes per adapter/per rotor	6 x 8-tube strip	48	10/120	10/60
Adapter bore (ø mm)	6	6	6	11
Max. rcf (g-force)	15,350	15,350	16,400	16,400
Max. rotational speed (rpm)	12,000	12,000	14,000	14,000
Order no.	–	–	5804 732.006	5804 731.000









*1 If maximum tube length is exceeded, the loading capacity of the adapter may be reduced.



Rotors for Centrifuges 5804/5804 R and 5810/5810 R



		
Description	F-34-6-38 High-speed Fixed-angle Rotor, with screw-on lid, for 6 x 85 ml tubes	Replacement lid for Fixed-angle Rotor F-34-6-38
Order no.	5804 727.002	5804 727.509

Tube (Please observe the limits for the load-bearing capacity of the tubes as specified by the tube manufacturer)				
Tube capacity (ml)	1.5-2	7-15	15 ml Falcon®	15-18
Max. tube length for all positions under the rotor lid (mm)*1	110	112	123	123
Adapter for 6 x 85 ml Fixed-angle Rotor for use with standard, Falcon® and micro test tubes				
Adapter				
Number of tubes per adapter/per rotor	4/24	2/12	1/6	1/6
Adapter bore (ø mm)	11	16	17	18
Max. rcf (g-force) at 11,000 rpm	15,300	15,150	14,450	14,750
Max. rcf (g-force) at 12,000 rpm	18,200	18,000	17,200	17,550
Centrifugation radius (mm)	113	112	107	109
Max. rotational speed (4 °C is maintained securely in the 5804 R/ 5810 R at a room temperature of 23 °C)	11,000	11,000	11,000	11,000
Order no.	5804 770.005	5804 771.001	5804 776.003	5804 772.008
(set of 2 adapters)				

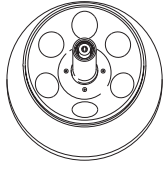
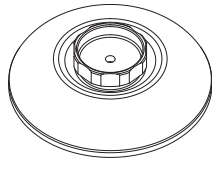




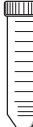


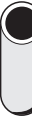

Adapters, lids and rotor are autoclavable at 121 °C, 20 min.

®: Registered trademark.

Attention! Observe safety precautions and operating manual.

Rotors for Centrifuges 5804/5804 R and 5810/5810 R

		
Description	F-34-6-38 High-speed Fixed-angle Rotor, with screw-on lid, for 6 x 85 ml tubes	Replacement lid for Fixed-angle Rotor F-34-6-38
Order no.	5804 727.002	5804 727.509

Tube (Please observe the limits for the load-bearing capacity of the tubes as specified by the tube manufacturer)				
Tube capacity (ml)	20–30	50	50 ml Falcon®	85*2
Max. tube length for all positions under the rotor lid (mm)*1	123	123	121	121
Adapter for 6 x 85 ml Fixed-angle Rotor for use with standard, Falcon® and micro test tubes				
Adapter				can be used without adapter
Number of tubes per adapter/per rotor	1/6	1/6	1/6	–/6
Adapter bore (ø mm)	26	29	29,5	–
Max. rcf (g-force) at 11,000 rpm	14,900	15,150	14,600	15,550
Max. rcf (g-force) at 12,000 rpm	17,700	18,000	17,400	18,500
Centrifugation radius (mm)	110	112	108	115
Max. rotational speed (4 °C is maintained securely in the 5804 R/ 5810 R at a room temperature of 23 °C)	11,000	11,000	11,000	11,000
Order no.	5804 773.004	5804 774.000	5804 775.007	–
(set of 2 adapters)				

*1 Exceeding the maximum tube length may reduce the loading capacity of the adapter.

*2 Nominal volume.

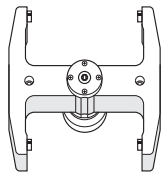
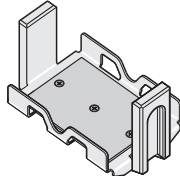
Adapters, aerosol-tight lids and rotors are autoclavable at 121 °C, 20 min.

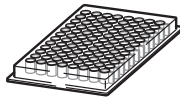
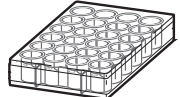
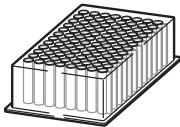
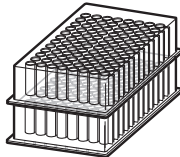
®: Registered trademark.



Rotors for Centrifuges 5804/5804 R and 5810/5810 R



		
Description	A-2-DWP Deepwell plate Rotor, with 2 Deepwell plate buckets	Replacement Deepwell plate buckets*^{1,2} set of 2
Order no.	5804 740.009	5804 743.008

Test plates				
Type	MTP	Cell culture	DWP	Kits
Number per bucket/per rotor	5/10	4/8	2/4	1/2
Max. rcf (g-force)	2,250	2,250	2,250	2,250
Centrifugation radius (mm)	147	147	147	147
Dimensions L x W x H (mm)	128 x 85.6 x 15	128 x 85.6 x 21	128 x 85.6 x 45	128 x 85.6 x 89 ^{*2}
Max. rotational speed (rpm) (4 °C is maintained securely in the 5810 R at a room temperature of 23 °C)	4,000	4,000	4,000	4,000



*1 Swing-bucket rotors are delivered with buckets from one weight class. When reordering a bucket, please enter the existing weight class, which is imprinted on the side of the nut, e.g. 86.

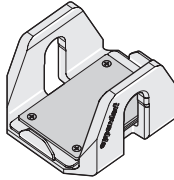
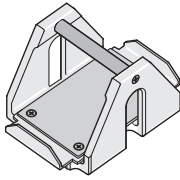
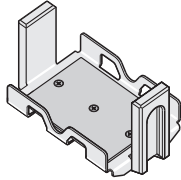
*2 Each microplate bucket can hold a maximum of 85 mm in height.

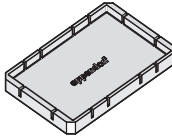
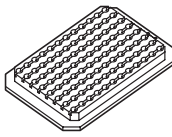
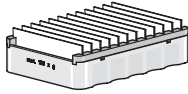
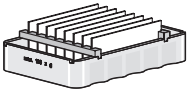
Bucket and rotor are autoclavable at 121 °C, 20 min.

Max. load weight 380 gram per bucket.

Attention! Observe safety precautions and operating manual.

Rotors accessories for Centrifuges 5804/5804 R and 5810/5810 R

			
Description	MTP/Flex-bucket set of 4	MTP bucket set of 4	Deepwell plate bucket set of 2
Order no.	5810 741.009	5810 702.003	5804 743.008
Specifications (Page)	158	-	152

Adapter				
Description	Adapter for 384-well PCR plates	Adapter for 96-well PCR plates	CombiSlide® Adapter*1	CombiSlide® Adapter*1
Adapter for all Microplate/Deepwell plate rotor buckets				
Tubes/glass slides per adapter/rotor	1/4*2	1/4*2	12/48*2	8/36*2
Max. rcf (g-force)	2.700*3	2.600*3	1.000*4	1.000*4
Centrifugation radius (mm)	150*3	146*3	150*5	150*5
Order no.	5825 713.001	5825 711.009	5825 706.005	5825 706.005
(set of 2 adapters)				

*1 The CombiSlide includes a flexible component set that enables the use of glass slides across and parallel to the direction of centrifugation for all of the buckets shown below.

*2 With the A-2-DWP, only half of the plates/glass slides can be used per rotor.

*3 With the A-2-DWP, a slightly lower rcf of approx. 2,200 x g is reached at a max. rotational speed of 3,700 rpm and a reduced radius.

*4 The probability of glass breakage increases with an exertion greater than the allowed rcf of 100 x g. The limiting data from the manufacturer of the glass slides/microarrays with respect to endurance must be observed in each case. A test run with empty glass slides from the manufacturer is recommended.

*5 Smaller radius with A-2-DWP.



i The above sample adapters can be used in all 5800 series microplate rotors and buckets.

Rotors for Centrifuges 5804/5804 R and 5810/5810 R



Description	A-4-44*1 Swing-bucket Rotor, with rectangular buckets, 4 x 100 ml	Replacement rectangular buckets, 100 ml, set of 4	Aerosol-tight lid, set of 2
Order no.	5804 709.004	5804 741.005	5804 712.005

Tube				
Tube capacity (ml)	1.2-5	1.5-2	2.6-7	3-15
Max. tube length for all positions with aerosol-tight lid (mm)*2	102	105	106	106
Max. tube length for all positions without aerosol-tight lid (mm)*2	105	111	108	108
Adapter for 100 ml rectangular bucket for use with standard, Vacutainer®, Falcon tubes and micro test tubes				
Adapter				
Number of tubes per adapter/per rotor	14/56	12/48	9/36	7/28
Adapter bore (ø mm)	11	11	13	16
Max. rcf (g-force)	4,200	4,100	4,200	4,200
Centrifugation radius (mm)	150	148	150	150
Max. rotational speed (rpm) (4 °C is maintained securely in the 5810 R at a room temperature of 23 °C)	5,000	5,000	5,000	5,000
Order no.	5804 750.004	5804 751.000	5804 752.007	5804 753.003
(set of 2 adapters)				



*1 The total weight of a loaded rectangular bucket (incl. adapter and tubes) may not exceed 600 g.

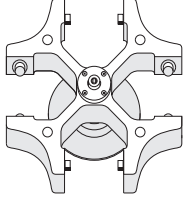
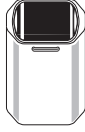

*2 Exceeding the maximum tube length may reduce the loading capacity of the adapter.

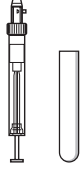





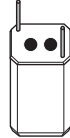

*3 Tube may only be centrifuged without the locking cap.

Adapters, caps and rotors are autoclavable at 121 °C, 20 min.

Attention! Observe safety precautions and operating manual.

Rotors for Centrifuges 5804/5804 R and 5810/5810 R

			
Description	A-4-44*1 Swing-bucket Rotor, with rectangular buckets, 4 x 100 ml	Replacement rectangular buckets, 100 ml, set of 4	Aerosol-tight lid, set of 2
Order no.	5804 709.004	5804 741.005	5804 712.005

Tube				
Tube capacity (ml)	7-17	15 ml Falcon®	15 ml Falcon®	7-18
Max. tube length for all positions with aerosol-tight lid (mm)*2	106	–	121	104
Max. tube length for all positions without aerosol-tight lid (mm)*2	110	121	121	107
Adapter for 100 ml rectangular bucket for use with standard, Vacutainer®, Falcon tubes and micro test tubes				
Adapter				
Number of tubes per adapter/per rotor	6/24	4/16	2/8	4/16
Adapter bore (ø mm)	17.5	17.5	17.5	20
Max. rcf (g-force)	4,200	4,300	4,400	4,200
Centrifugation radius (mm)	150	155	157	150
Max. rotational speed (rpm) (4 °C is maintained securely in the 5810 R at a room temperature of 23 °C)	5,000	5,000	5,000	5,000
Order no.	5804 754.000	5804 755.006	5804 717.007	5804 756.002
(set of 2 adapters)				

*1 The total weight of a loaded rectangular bucket (incl. adapter and tubes) may not exceed 600 g.

*2 Exceeding the maximum tube length may reduce the loading capacity of the adapter.

*3 Special adapters are required for aerosol-tight centrifugation with conical tubes. Other common tubes can be centrifuged aerosol-tight with the standard adapter.

Adapters, caps and rotors are autoclavable at 121 °C, 20 min.

®: Registered trademark of Becton Dickinson.



Rotors for Centrifuges 5804/5804 R and 5810/5810 R



Description	A-4-44*1 Swing-bucket Rotor, with rectangular buckets, 4 x 100 ml	Replacement rectangular buckets, 100 ml, set of 4	Aerosol-tight lid, set of 2
Order no.	5804 709.004	5804 741.005	5804 712.005

Tube				
Tube capacity (ml)	18–30	50 ml Falcon®	50 ml Falcon®	50 ml Falcon®
Max. tube length for all positions with the aerosol-tight lid (mm)*1	100	–	119	–
Max. tube length for all positions without the aerosol-tight lid (mm)*1	110	122	122	119
Adapter for 100 ml rectangular bucket for use with standard, Vacutainer®, Falcon tubes and micro test tubes				
Adapter				
Number of tubes per adapter/per rotor	2/8	1/4	1/4	–/8
Adapter bore (ø mm)	26	31	31	–
Max. rcf (g-force)	4,200	4,300	4,400	4,500
Centrifugation radius (mm)	150	155	157	161
Max. rotational speed (rpm) (4 °C is maintained securely in the 5810 R at a room temperature of 23 °C)	5,000	5,000	5,000	5,000
Order no.	5804 757.009	5804 758.005	5804 718.003	5804 706.005
(set of 2 adapters)				(set of 4)



*1 For aerosol-tight centrifugation of conical tubes such as 15 ml and 50 ml Falcon® tubes, you require these special adapters. Other common tubes can be centrifuged with the usual adapter.

*2 Reordering of 50 ml form sets: 5804 728.009.

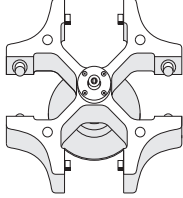
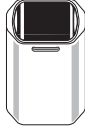

*3 Filled conical tubes may be used in the 50 ml Falcon® buckets when they do not exceed a cumulative maximum weight of 0.14 kg.









®: Registered trademark of Becton Dickinson.

Adapters, caps and rotors are autoclavable: 20 min, 121 °C.

Attention! Observe safety precautions and operating manual.

Rotors for Centrifuges 5804/5804 R and 5810/5810 R

			
Description	A-4-44*1 Swing-bucket Rotor, with rectangular buckets, 4 x 100 ml	Replacement rectangular buckets, 100 ml, set of 4	Aerosol-tight lid, set of 2
Order no.	5804 709.004	5804 741.005	5804 712.005

Tube				
Tube capacity (ml)	30–50	50 ml Falcon® skirted	50–75 Schott® glass tube	80–100 Schott/Brand® glass tube
Max. tube length for all positions with the aerosol-tight lid (mm)*1	108		108	100
Max. tube length for all positions without the aerosol-tight lid (mm)*1	122		119	114
Adapter for 50 ml Falcon skirted				
Adapter				
Order no.		5804 737.008		
(set of 8 adapters)				
Adapter for 100 ml rectangular bucket for use with standard, Vacutainer®, Falcon tubes and micro test tubes				
Adapter	 *2	 *2	 *2	
Number of tubes per adapter/per rotor	1/4	1/4	1/4	
Adapter bore (ø mm)	31	35	45	
Max. rcf (g-force)	4,200	4,200	4,200	
Centrifugation radius (mm)	150	150	150	
Max. rotational speed (rpm) (4 °C is maintained securely in the 5810 R at a room temperature of 23 °C)	5,000	5,000	5,000	
Order no.	5804 759.001	5804 760.000	5804 761.006	
(set of 2 adapters)				

*1 For aerosol-tight centrifugation of conical tubes such as 15 ml and 50 ml Falcon® tubes, you require these special adapters. Other common tubes can be centrifuged with the usual adapter.
*2 For high g-counts please use centrifuge tubes of Duran® glass.

®: Registered trademark of Becton Dickinson.
Adapters, caps and rotors are autoclavable: 20 min, 121 °C.



Rotors exclusively for Centrifuges 5810 and 5810 R



Description	A-4-62, Swing-bucket Rotor, with rectangular buckets, 4 x 250 ml	Replacement rectangular buckets, 250 ml, set of 4	Aerosol-tight lid, set of 2
Order no.	5810 709.008	5810 716.004	5810 710.006

Tube				
Tube capacity (ml)	1.2-5	1.5-2	2.6-7	3-15
Max. tube length for all positions with the aerosol-tight lid (mm)*1	115	118	118	116
Max. tube length for all positions without the aerosol-tight lid (mm)*1	123	122	121	121

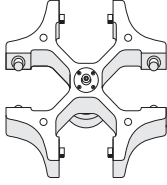
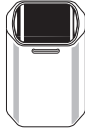

Adapter for 250 ml rectangular bucket for use with standard, Vacutainer®, Falcon tubes and micro test tubes				
Adapter				
Number of tubes per adapter/per rotor	25/100	16/64	15/60	12/48
Adapter bore (ø mm)	11	11	13	16
Max. rcf (g-force)	3,050	3,000	3,050	3,050
Centrifugation radius (mm)	173	171	173	173
Max. rotational speed (rpm) (4 °C is maintained securely in the 5810 R at a room temperature of 23 °C)	4,000	4,000	4,000	4,000
Order no.	5810 750.008	5810 751.004	5810 752.000	5810 753.007
(set of 2 adapters)				

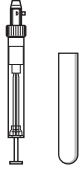







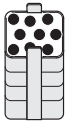



Adapter, caps and rotor are autoclavable: 20 min, 121 °C.

Attention! Observe safety precautions and operating manual.

Rotors exclusively for Centrifuges 5810 and 5810 R

			
Description	A-4-62, Swing-bucket Rotor, with rectangular buckets, 4 x 250 ml	Replacement rectangular buckets, 250 ml, set of 4	Aerosol-tight lid, set of 2
Order no.	5810 709.008	5810 716.004	5810 710.006

Tube					
Tube capacity (ml)	7-17	15 ml Falcon®	7-18	18-30	50 ml Falcon®
Max. tube length for all positions with the aerosol-tight lid (mm) ^{*1}	114	121	119	116	116
Max. tube length for all positions without the aerosol-tight lid (mm) ^{*1}	118	127	126	119	122

Adapter for 250 ml rectangular bucket for use with standard, Vacutainer®, Falcon tubes and micro test tubes					
Adapter					
Number of tubes per adapter/per rotor	12/48	9/36	8/32	4/16	3/12
Adapter bore (ø mm)	17.5	17.5	20	26	31
Max. rcf (g-force)	3,050	3,150	3,050	3,050	3,150
Centrifugation radius (mm)	173	178	173	173	178
Max. rotational speed (rpm) (4 °C is maintained securely in the 5810 R at a room temperature of 23 °C)	4,000	4,000	4,000	4,000	4,000
Order no.	5810 754.003	5810 755.000	5810 756.006	5810 757.002	5810 758.009
(set of 2 adapters)					

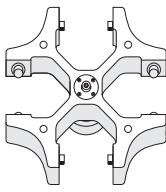
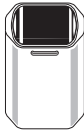

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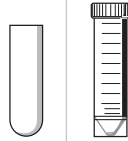


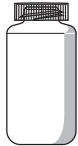





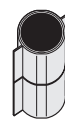
Adapters, caps, and rotor are autoclavable: 20 min, 121 °C.



Rotors exclusively for Centrifuges 5810 and 5810 R



			
Description	A-4-62, Swing-bucket Rotor, with rectangular buckets, 4 x 250 ml	Replacement rectangular buckets, 250 ml, set of 4	Aerosol-tight lid, set of 2
Order no.	5810 709.008	5810 716.004	5810 710.006

Tube					
Tube capacity (ml)	50 ml Falcon®	30-50 50 ml Falcon® skirted	50-75	80-120	180-250
Max. tube length for all positions with the aerosol-tight lid (mm) ^{*1}	–	113	118	125	127
Max. tube length for all positions without the aerosol-tight lid (mm) ^{*1}	122	115	122	138	136
Adapter for 50 ml Falcon skirted					
Adapter	–		–	–	–
Order no.	5804 737.008				
(set of 8 adapters)					
Adapter for 250 ml rectangular bucket for use with standard, Vacutainer®, Falcon tubes and micro test tubes					
Adapter					
Number of tubes per adapter/per rotor	4/16	4/16	2/8	1/4	1/4
Adapter bore (ø mm)	31	31	35	45	62
Max. rcf (g-force)	3,050	3,050	3,050	3,050	3,050
Centrifugation radius (mm)	173	173	173	173	180
Max. rotational speed (rpm) (4°C is maintained securely in the 5810 R at a room temperature of 23°C)	4,000	4,000	4,000	4,000	4,000
Order no.	5810 763.002	5810 759.005	5810 760.003	5810 761 000	5810 770.009
(set of 2 adapters)					



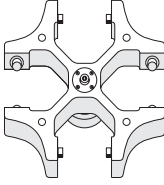
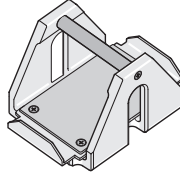
^{*1} **Warning:** When using 50 ml Falcon® tubes in the adapter 5810 763.002, the aerosol-tight cap can no longer be closed.

^{*2} Centrifugation of conical 200 ml tubes is possible when an insertion form acquired from the tube manufacturer is used.

^{*3} For high g-counts please use centrifuge tubes of Duran® glass.
^{*4} Reordering of loose form inserts: see ordering information.
 ©: Registered trademark of Becton Dickinson.
 Adapters, caps and rotors are autoclavable: 20 min, 121 °C.

Attention! Observe safety precautions and operating manual.

Rotors exclusively for Centrifuges 5810 and 5810 R

		
Description	A-4-62-MTP Swing-bucket Rotor, with 4 MTP buckets	Replacement microplate*1 set of 4
Order no.	5810 711.002	5810 702.003

Test plates			
Type	MTP	Cell culture	DWP
Number per bucket/per rotor	4/16	2/8	1/4
Max. rcf (g-force)	2,750	2,750	2,750
Centrifugation radius (mm)	154	154	154
Dimensions L x W x H (mm)	128 x 85.6 x 15	128 x 85.6 x 21	128 x 85.6 x 45
Max. rotational speed (rpm) (4 °C is maintained securely in the 5810 R at a room temperature of 23 °C)	4,000	4,000	4,000

Bucket and rotor are autoclavable at 121 °C for 20 minutes.



Rotors exclusively for Centrifuges 5810 and 5810 R



Description	A-4-81, Swing-bucket Rotor, with rectangular buckets, 4 x 400 ml	Replacement rectangular buckets, 400 ml, set of 4	Aerosol-tight lid, set of 2
Order no.	5810 718.007	5810 730.007	5810 724.007

Tube					
Tube capacity (ml)		2.6-7	5	7-17	15 ml Falcon®
Max. tube length for all positions with the aerosol-tight lid (mm)*1		107	108	118	119
Max. tube length for all positions without the aerosol-tight lid (mm)*1		108	108	118	121
Adapter for 400 ml rectangular bucket for use with standard, Vacutainer®, Falcon tubes and flasks					
Adapter	Requires use of Flex Buckets for microplates, IsoRack Adapter (p. 158)				
Number of tubes per adapter/per rotor		25/100	18/72	16/64	12/48
Adapter bore (ø mm)		13	13	17.5	17.5
Max. rcf (g-force)		3,000	3,000	3,000	3,100
Centrifugation radius (mm)		168	168	168	173
Max. rotational speed (rpm)		4,000	4,000	4,000	4,000
Order no.		5810 720.001	5825 717.007	5810 721.008	5810 722.004
(set of 2 adapters)					

When retrofitting centrifuges 5810 / 5810 R of the manufacture year 2002 for the use of the A-4-81, a minor electronic modification may be necessary.

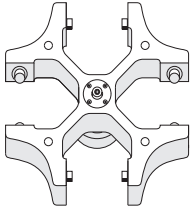
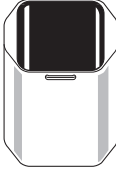
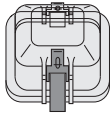








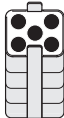
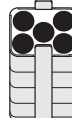
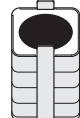

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Adapters, lids and rotors are autoclavable: 20 min, 121 °C.

Attention! Observe safety precautions and operating manual.

Rotors exclusively for Centrifuges 5810 and 5810 R

			
Description	A-4-81, Swing-bucket Rotor, with rectangular buckets, 4 x 400 ml	Replacement rectangular buckets, 400 ml, set of 4	Aerosol-tight lid, set of 2
Order no.	5810 718.007	5810 730.007	5810 724.007

Tube					
Tube capacity (ml)	50 ml Falcon®	50 ml Centri- prep®	50 ml Falcon® skirted	180–250	400 ml bottle*¹ (order set of 2 below)
Max. tube length for all positions with the aerosol-tight lid (mm) ^{*1}	116 ^{*3}	–	–	–	–
Max. tube length for all positions without the aerosol-tight lid (mm) ^{*1}	122	121	133	133	133
Adapter for 50 ml Falcon skirted					
Adapter					
Order no.			5804 737.008		
(set of 8 adapters)					
Adapter for 400 ml rectangular bucket for use with standard, Vacutainer®, Falcon tubes and flasks					
Adapter					
Number of tubes per adapter/per rotor	5/20	5/20	1/4	1/4	
Adapter bore (ø mm)	31	31	62	81	
Max. rcf (g-force)	3,100	3,100	3,100	3,250	
Centrifugation radius (mm)	173	173	173	180	
Max. rotational speed (rpm) (4 °C is maintained securely in the 5810 R at a room temperature of 23 °C)	4,000	4,000	4,000	4,000	
Order no.	5810 723.000	5810 739.004	5825 720.008	5810 728.002	
(set of 2 adapters)					

When retrofitting centrifuges 5810 / 5810 R of the manufacture year 2002 for the use of the A-4-81, a minor electronic modification may be necessary.

*¹ Available as a set of 2 flasks (see ordering information).

*² Only centrifuge tube without locking lid.

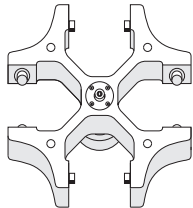
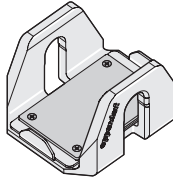
*³ Centrifugation of conical 200 ml tubes is possible when an insertion form acquired from the tube manufacturer is used.

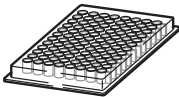
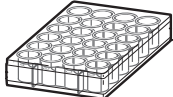
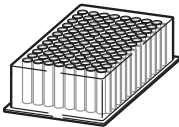
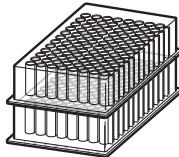
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Adapters, caps and rotors are autoclavable: 20 min, 121 °C.



Rotors exclusively for Centrifuges 5810 and 5810 R



		
Description	A-4-81-MTP Swing-bucket Rotor, with 4 MTP/Flex buckets	MTP/Flex-bucket set of 4
Order no.	5810 725.003	5810 741.009

Test plates				
Type	MTP	Cell culture	DWP	Kits
Number per bucket/per rotor	4/16	2/8	1/4	1/4
Max. rcf (g-force)	2,900	2,900	2,900	2,900
Centrifugation radius (mm)	163	163	163	163
Dimensions L x W x H (mm)	128 x 85.6 x 15	128 x 85.6 x 21	128 x 85.6 x 45	128 x 85.6 x 60
Max. rotational speed (rpm) (4 °C is maintained securely in the 5810 R at a room temperature of 23°C)	4,000	4,000	4,000	4,000

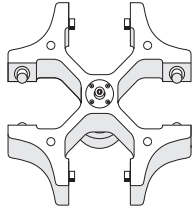
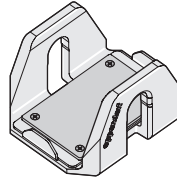
Bucket and rotor are autoclavable at 121 °C for 20 minutes.

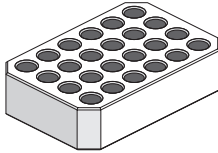
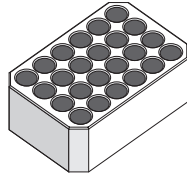


All of the plate types shown for the A-4-81-MTP fit into the flex buckets.

Attention! Observe safety precautions and operating manual.

Rotors exclusively for Centrifuges 5810 and 5810 R

		
Description	A-4-81-MTP Swing-bucket Rotor, with 4 MTP/Flex buckets	MTP/Flex-bucket set of 4
Order no.	5810 725.003	5810 741.009

Adapter		
Description	IsoRack adapter for 0.5 ml tubes	IsoRack adapter for 1.5/2 ml tubes
Adapter for Flex-buckets for use with IsoRacks and cell culture flasks		
Tubes per adapter/rotor	24/96	24/96
Max. rcf (g-force)	2,700	2,600
Centrifugation radius (mm)	150	146
Max. rotational speed (rpm) (4 °C is maintained securely in the 5810 R at a room temperature of 23 °C)	4,000	4,000
Order no.	5825 708.008	5825 709.004
(set of 2 adapters)		

When retrofitting centrifuges 5810 / 5810 R (prior to year of manufacture 2002) for the A-4-81 / A-4-81-MTP, a minor electronic modification may be necessary.

Buckets and rotor are autoclavable at 121 °C for 20 min.

All of the plate types shown for the A-4-81-MTP fit into the flex buckets.



Rotor accessories for Centrifuges 5804/5804 R and 5810/5810 R

Ordering information

Accessories and spare parts order	Order no.
Fixed-angle rotors	
for F-45-30-11	
Rotor lid (aluminium), non-aerosol-tight	5804 715.403
for FA-45-30-11	
Rotor lid (aluminium), aerosol-tight	5804 736.001
Swing-bucket rotors	
for A-2-DWP	
Deepwell plate buckets	
2 pieces	5804 743.008
1 piece	5804 740.700
for A-4-44	
Rectangular buckets 100 ml	
4 pieces	5804 741.005
1 piece	5804 701.003
Aerosol-tight caps, for 100 ml rectangular buckets, set of 2 pieces	5804 712.005
4 Falcon®-buckets*1, each for 2 x 50 ml Falcon® tubes for swing-bucket rotor A-4-44 to upgrade the rectangular bucket version incl. adapters	5804 706.005
8 adapters for 50 ml Falcon® tubes as a reorder	5804 728.009
Spare rubber mat, 4 pieces	5804 782.003
Spare adapter clamp, 2 pieces	5804 781.007
for A-4-81	
Rectangular buckets 400 ml	
4 pieces	5810 730.007
1 piece	5810 719.003
Aerosol-tight caps, for 400 ml rectangular buckets, set of 2 pieces	5810 724.007
wide-mouth flask, 400 ml plastic, set of 2 pieces	5810 729.009
Spare rubber mat, 4 pieces	5810 734.002
Spare adapter clamp, 2 pieces	5810 735.009
for A-4-62	
Rectangular buckets 250 ml	
4 pieces	5810 716.004
1 piece	5810 707.005
Aerosol-tight caps, for 250 ml rectangular buckets, set of 2 pieces	5810 710.006
Spare rubber mat, 4 pieces	5810 782.007
Spare adapter clamp, 2 pieces	5810 781.000
for A-4-62-MTP	
MTP-buckets Retrofit kit, for 4 MTPs each or 1 deepwell plate, for swing-bucket rotor A-4-62-MTP or for retrofitting of swing-bucket rotor A-4-62	
4 pieces	5810 702.003
1 piece	5810 703.000

*1 Not for use with aerosol-tight caps. Rubber mats to be added.

