

Swing-out rotor 11118

with 1 set (qty 2) rectangular buckets 13218, caps 17108 and plate holder 17978

- Max. plate height without / with cap: 93 / 80 mm
- Max. speed (6-16S / 6-16KS): 5,700 rpm
- Max. RCF (6-16S / 6-16KS): 5,485 x g
- Max. load per carrier: 520 g
- Biosafe with cap 17108 
- Tmin at maximum speed: <4°C
- Angle: 90°



Swing-out rotor 11660 / 11650*

Rectangular bucket 13421 (1 set = 4 pcs) with plate holder 17979

- Max. plate height: 68 mm
- Max. speed (6-16S / 6-16KS): 4,200 / 5,100 rpm
- Max. RCF (6-16S / 6-16KS): 3,096 / 4,565 x g
- Max. load per carrier: 500 g
- Tmin at maximum speed: <4°C
- Angle: 90°



*Max. speed with rotor 11650 in 6-16KS: 4,700 rpm, max. RCF: 3,877 x g

Plate



Description

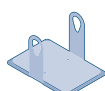
MTP (without lid) MTP (with lid) DWP PCR plate 96-fold Filter plate

W x D x H [mm]

128 x 86 x 15 128 x 86 x 17.5 128 x 86 x 44.5 128 x 86 x 20 128 x 86 x 60

Adapter

for
rectangular
bucket
13218



Bore diameter x length [mm]

—

Plates per rotor (without / with cap)

12 / 10 10 / 8 4 / 2 8 / 8 2 / 2

Centrifuging radius [mm]

151

Item no.

17978

Plate



Description

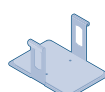
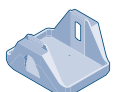
MTP (without lid) MTP (with lid) DWP PCR plate 96-fold Filter plate

W x D x H [mm]

128 x 86 x 15 128 x 86 x 17.5 128 x 86 x 44.5 128 x 86 x 20 128 x 86 x 60

Adapter

for
rectangular
bucket
13421



Bore diameter x length [mm]

—

Plates per rotor

16 12 4 12 4

Centrifuging radius [mm]

157

Item no.

17979

Swing-out rotor 11660 / 11650

**Rectangular bucket 13621 (1 set = 4 pcs)
with plate holder 17980**

- Max. plate height: 86 mm
- Max. speed (6-16S / 6-16KS): 4,200 / 4,700 rpm
- Max. RCF (6-16S / 6-16KS): 3,589 / 4,495 x g
- Max. load per carrier: 600 g
- Tmin at maximum speed: <4°C*
- Angle: 90°

* Max. speed for 4 °C of rotor 11660: 4.600 min⁻¹

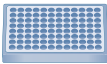
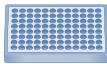


Fixed-angle rotor 12449

with aluminium lid 17612

- Max. capacity: 48 x 2 ml
- Max. speed (6-16S / 6-16KS): 13,500 / 15,000 rpm
- Max. RCF (6-16S / 6-16KS): 20,376 / 25,155 x g
- Biosafe with aluminium lid 17612 
- Max. speed for 4°C: 14.900 min⁻¹
- Angle (outer / inner row): 25° / 53°



Plate	    				
Description	MTP (without lid)	MTP (with lid)	DWP	PCR plate 96-fold	Filter plate
W x D x H [mm]	128 x 86 x 15	128 x 86 x 17.5	128 x 86 x 44.5	128 x 86 x 20	128 x 86 x 60
Adapter					
Bore diameter x length [mm]	—				
Plates per rotor	20	16	4	16	4
Centrifuging radius [mm]	182				
Item no.	17980				

Tube					
Rated capacity (filling volume) [ml]	0.2	0.4	0.5	1.5	2
Diameter x length [mm]	5.85 x 20	5.8 x 47	7.9 x 28	10.7 x 42	10.7 x 42
Tube material	PP	PE	PP	PP	PP
Item no.	15042	15014	15005	15008	15040
Adapter					
Bore diameter x length [mm]	6.3 x 18.5	6 x 45	8 x 45	11.1 x 38.5	
Tubes per adapter / rotor	1 / 48	1 / 48	1 / 48	— / 48	
Centrifuging radius (outer / inner row) [mm]	96 / 96	98 / 98	98 / 98	100 / 100	
Item no.	13021	13000	13002	—	

Fixed-angle rotor 12201

with aluminium lid 17896

- Max. capacity: 100 x 2 ml
- Max. speed (6-16S / 6-16KS): 9,000 / 9,600 rpm
- Max. RCF outer row (6-16S / 6-16KS): 14,761 / 16,795 x g
- Max. RCF inner row (6-16S / 6-16KS): 12,406 / 14,116 x g
- Hermetically closable with aluminium lid 17896
- Max. speed for 4°C: 9.000 min⁻¹
- Angle (both rows): 45°



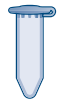
Fixed-angle rotor 12450

with aluminium lid 17614

- Max. capacity: 24 x 5 ml conical
- Max. speed (6-16S / 6-16KS): 13,000 / 14,000 rpm
- Max. RCF (6-16S / 6-16KS): 21,917 / 25,419 x g
- Biosafe with aluminium lid 17614 
- Max. speed for 4°C: 13.400 min⁻¹
- Angle: 40°

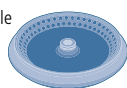


Tube

					
Rated capacity (filling volume) [ml]	0.2	0.4	0.5	1.5	2
Diameter x length [mm]	5.85 x 20	5.8 x 47	7.9 x 28	10.7 x 42	10.7 x 42
Tube material	PP	PE	PP	PP	PP
Item no.	15042	15014	15005	15008	15040

Adapter

for fixed-angle
rotor
12201



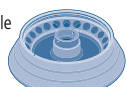
				
Bore diameter x length [mm]	6.3 x 18.5	6 x 45	8 x 45	11.1 x 38.5
Tubes per adapter / rotor	1 / 100	1 / 100	1 / 100	– / 100
Centrifuging radius (outer / inner row) [mm]	159 / 133	161 / 135	161 / 135	163 / 151
Item no.	13021	13000	13002	–

Tube

					
Rated capacity (filling volume) [ml]	1.5	1.5–1.8	1.5	2	5
Diameter x length [mm]	11.7 x 34	12.3 x 49	10.7 x 42	10.7 x 42	17 x 60
Tube material	Glass	PP	PP	PP	PPCO
Item no.	HPLC	Cryo tube	15008	15040	–

Adapter

for fixed-angle
rotor
12450



				
Bore diameter x length [mm]	12.5 x 28	12.7 x 32	11.1 x 38.5	17 x 52
Tubes per adapter / rotor	1 / 24	1 / 24	1 / 24	– / 24
Centrifuging radius [mm]	89	93	99	116
Item no.	14081	14080	14082	–

Fixed-angle rotor 12168

- with aluminium lid 17846
- Max. capacity: 20 x 10 ml
 - Max. speed (6-16S / 6-16KS): 12,500 / 14,000 rpm
 - Max. RCF (6-16S / 6-16KS): 17,119 / 21,475 x g
 - Hermetically closable with aluminium lid 17846
 - Tmin at maximum speed: <4°C
 - Angle: 25°



Fixed-angle rotor 12170

- with aluminium lid 17859
- Max. capacity: 12 x 15 ml conical
 - Max. speed (6-16S / 6-16KS): 12,500 / 13,500 rpm
 - Max. RCF (6-16S / 6-16KS): 17,469 / 20,376 x g
 - Hermetically closable with aluminium lid 17859
 - Tmin at maximum speed: <4°C
 - Angle: 25°



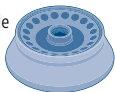
Tube



Rated capacity (filling volume) [ml]	10	10	10
Diameter x length [mm]	16.1 x 81.1	16.1 x 81.1	16.1 x 81.1
Tube material	PF	PC	PPCO
Item no.	15000	15010	15039

Adapter

for fixed-angle rotor 12168



Bore diameter x length [mm]	16.3 x 69
Tubes per adapter / rotor	– / 20
Centrifuging radius [mm]	98
Item no.	–

Tube



Rated capacity (filling volume) [ml]	15
Diameter x length [mm]	16.5 x 120
Tube material	PP
Item no.	15115

Adapter

for fixed-angle rotor 12170



Bore diameter x length [mm]	17.5 x 107
Tubes per adapter / rotor	– / 12
Centrifuging radius [mm]	100
Item no.	–

Cleanroom

Robust and resistant



Cleanroom coating
Available for all accessories

An extremely resistant cleanroom coating is available from Sigma for all aluminium buckets and rotors. This coating provides reliable corrosion protection for accessories, especially where aggressive chemicals

are used. The cleanroom coating can even withstand exposure to sodium hydroxide and hydrochloric acid. The surfaces are also food-grade (FDA certified) and can easily be cleaned without residues.

Fixed-angle rotor 12174

with aluminium lid 17883

- Max. capacity: 24 x 15 ml conical
- Max. speed (6-16S / 6-16KS): 10,500 / 12,000 rpm
- Max. RCF (6-16S / 6-16KS): 15,531 / 20,285 x g
- Hermetically closable with aluminium lid 17883
- Tmin at maximum speed: <4°C
- Angle (outer / inner row): 30° / 40°



Fixed-angle rotor 12172

with aluminium lid 17845

- Max. capacity: 12 x 30 ml round-bottom
- Max. speed (6-16S / 6-16KS): 12,500 / 14,000 rpm
- Max. RCF (6-16S / 6-16KS): 19,216 / 24,104 x g
- Hermetically closable with aluminium lid 17845
- Tmin at maximum speed: <4°C
- Angle: 30°



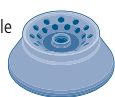
Tube



Rated capacity (filling volume) [ml]	15
Diameter x length [mm]	16.5 x 120
Tube material	PP
Item no.	15115

Adapter

for fixed-angle rotor 12174



Bore diameter x length [mm]	17 x 107
Tubes per adapter / rotor	– / 24
Centrifuging radius (outer / inner row) [mm]	126 / 126
Item no.	–

Tube



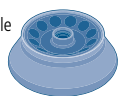
Rated capacity (filling volume) [ml]	10	10	10
Diameter x length [mm]	16.1 x 81.1	16.1 x 81.1	16.1 x 81.1
Tube material	PF	PC	PPCO
Item no.	15000	15010	15039



Rated capacity (filling volume) [ml]	30 (26)	30 (26)	30 (28)
Diameter x length [mm]	25.3 x 98	25.3 x 98	25.3 x 98
Tube material	PF	PPCO	PC
Item no.	15029	15032	15030

Adapter

for fixed-angle rotor 12172



Bore diameter x length [mm]	16.5 x 70
Tubes per adapter / rotor	1 / 12
Centrifuging radius [mm]	100
Item no.	13059



Bore diameter x length [mm]	26 x 83
Tubes per adapter / rotor	– / 12
Centrifuging radius [mm]	110
Item no.	–

Fixed-angle rotor 12269

with aluminium lid 17604

- Max. capacity: 8 x 50 ml conical
- Max. speed (6-16S / 6-16KS): 12,500 / 13,500 rpm
- Max. RCF (6-16S / 6-16KS): 18,168 / 21,191 x g
- Biosafe with aluminium lid 17604
- Tmin at maximum speed: <4°C
- Angle: 25°



Fixed-angle rotor 12266

with aluminium lid 17605

- Max. capacity: 8 x 50 ml round-bottom
- Max. speed (6-16S / 6-16KS): 12,500 / 14,000 rpm
- Max. RCF (6-16S / 6-16KS): 17,469 / 21,913 x g
- Biosafe with aluminium lid 17605
- Tmin at maximum speed: <4°C
- Angle: 25°



Tube							
	Rated capacity (filling volume) [ml]	15	25	30	50 (38)	50 (43)	50
	Diameter x length [mm]	16.5 x 120	25 x 90	25 x 107	28.8 x 107	28.5 x 107	29 x 117
	Tube material	PP	PP	PP	PPCO	PF	PP
	Item no.	15115	—	—	15052	15051	15151
Adapter							
for fixed-angle rotor 12269 							
Bore diameter x length [mm]							
Tubes per adapter / rotor	17 x 107	25.5 x 71	30 x 91		29.5 x 102		
Centrifuging radius [mm]	1 / 8	1 / 8	1 / 8		— / 8		
Item no.	103	81	94		104		
	13060	13064	13079		—		

Tube																			
	Rated capacity (filling volume) [ml]			10	10	10	14	14	15	30 (26)	30 (26)	30 (28)	30						
	Diameter x length [mm]			16.1 x 81.1	16.1 x 81.1	16.1 x 81.1	17 x 100	17 x 100	17.5 x 106	25.3 x 98	25.3 x 98	25.3 x 98	23.6 x 106						
	Tube material			PF	PC	PPCO	PS	PP	HS glass	PF	PPCO	PC	HS glass						
	Item no.			15000	15010	15039	15020	15023	15085	15029	15032	15030	15086						
Adapter																			
for fixed-angle rotor 12266 																			
																			
Bore diameter x length [mm]				16.2 x 65			18 x 90			25.6 x 75			24.5 x 93						
Tubes per adapter / rotor				1 / 8			1 / 8			1 / 8			1 / 8						
Centrifuging radius [mm]				72			99			89			102						
Item no.				13087			16018			13086			16030						

Fixed-angle rotor 12266

with aluminium lid 17605

- Max. capacity: 8 x 50 ml round-bottom
- Max. speed (6-16S / 6-16KS): 12,500 / 14,000 rpm
- Max. RCF (6-16S / 6-16KS): 17,469 / 21,913 x g
- Biosafe with aluminium lid 17605 
- Tmin at maximum speed: <4°C
- Angle: 25°



Fixed-angle rotor 12265

with aluminium lid 17607

- Max. capacity: 6 x 94 ml round-bottom
- Max. speed (6-16S / 6-16KS): 12,500 / 14,000 rpm
- Max. RCF (6-16S / 6-16KS): 18,517 / 23,228 x g
- Biosafe with aluminium lid 17607 
- Max. speed for 4°C: 13,900 min⁻¹
- Angle: 25°



Tube

			
Rated capacity (filling volume) [ml]	50 (38)	50 (43)	50
Diameter x length [mm]	28.8 x 107	28.5 x 107	28.5 x 101.5
Tube material	PPCO	PF	Stainless steel
Item no.	15052	15051	13055

Adapter

for fixed-angle
rotor
12266



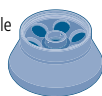
Bore diameter x length [mm]	29 x 97
Tubes per adapter / rotor	– / 8
Centrifuging radius [mm]	104
Item no.	–

Tube

Rated capacity (filling volume) [ml]	10	10	10	14	14	15	15	30 (26)	30 (26)	30 (28)
Diameter x length [mm]	16.1 x 81.1	16.1 x 81.1	16.1 x 81.1	17 x 100	17 x 100	17.5 x 106	16.5 x 120	25.3 x 98	25.3 x 98	25.3 x 98
Tube material	PF	PC	PPCO	PS	PP	HS glass	PP	PF	PPCO	PC
Item no.	15000	15010	15039	15020	15023	15085	15115	15029	15032	15030

Adapter

for fixed-angle
rotor
12265



				
Bore diameter x length [mm]	16.2 x 71	18 x 87	17 x 107	26 x 83
Tubes per adapter / rotor	2 / 12	1 / 6	1 / 6	1 / 6
Centrifuging radius [mm]	77	98	105	89
Item no.	13084	16019	13081*	13083

Fixed-angle rotor 12265

with aluminium lid 17607

- Max. capacity: 6 x 94 ml round-bottom
- Max. speed (6-16S / 6-16KS): 12,500 / 14,000 rpm
- Max. RCF (6-16S / 6-16KS): 18,517 / 23,228 x g
- Biosafe with aluminium lid 17607
- Max. speed for 4°C: 13,900 min⁻¹
- Angle: 25°



Fixed-angle rotor 12356*

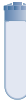
with aluminium lid 17603

- Max. capacity: 6 x 250 ml
- Max. speed (6-16S / 6-16KS): 9,000 / 11,200 rpm
- Max. RCF (6-16S / 6-16KS): 13,131 / 20,335 x g
- Biosafe with aluminium lid 17603
- Max. speed for 4°C: 9,900 min⁻¹
- Angle: 30°



* 6-16HS / 6-16KHS: Max. temperature adjustment range 50°C

Tube									
Rated capacity (filling volume) [ml]	30	50 (38)	50 (43)	50	50	85 (73)	85 (76)	94 (85)	94
Diameter x length [mm]	23.6 x 106	28.8 x 107	28.5 x 107	28.5 x 101.5	29.5 x 117	38 x 112	38 x 112	38 x 103	38 x 110
Tube material	HS glass	PPCO	PF	Stainless steel	PP	PF	PPCO	Stainless steel	PC
Item no.	15086	15052	15051	13055	15151	15080	15076	13085	15094
Adapter									
for fixed-angle rotor 12265									
Bore diameter x length [mm]	24.5 x 88	29 x 97		30 x 100	38.3 x 99				
Tubes per adapter / rotor	1 / 6	1 / 6		1 / 6	– / 6				
Centrifuging radius [mm]	99	103		106	106				
Item no.	16031	13082		13080*	–				

Tube						
Rated capacity (filling volume) [ml]	1.5	2	10	10	15	50 (38)
Diameter x length [mm]	10.7 x 42	10.7 x 42	16.1 x 81.1	16.1 x 81.1	16.5 x 120	28.8 x 107
Tube material	PP	PP	PF	PC	PPCO	PPCO
Item no.	15008	15040	15000	15010	15039	15052
Adapter						
for fixed-angle rotor 12356						
Bore diameter x length [mm]	11.1 x 38.5	16.5 x 69		17 x 105	26 x 82.5	29.5 x 98
Tubes per adapter / rotor	9 / 54	6 / 36		4 / 24	2 / 12	1 / 6
Centrifuging radius [mm]	128	141		144	141	137
Item no.	14122	14124		14125	14127	14129

* max. RCF 20,000 x g

Fixed-angle rotor 12356*

with aluminium lid 17603

- Max. capacity: 6 x 250 ml
- Max. speed (6-16S / 6-16KS): 9,000 / 11,200 rpm
- Max. RCF (6-16S / 6-16KS): 13,131 / 20,335 x g
- Biosafe with aluminium lid 17603 
- Max. speed for 4°C: 9,900 min⁻¹
- Angle: 30°

* 6-16HS / 6-16KHS: Max. temperature adjustment range 50°C



Fixed-angle rotor 12600*

with aluminium lid 17600 and torque wrench kit 17060

- Max. capacity: 6 x 500 ml
- Max. speed (6-16S / 6-16KS): 8,000 / 9,600 rpm
- Max. RCF (6-16S / 6-16KS): 11,949 / 17,207 x g
- Biosafe with aluminium lid 17600 
- Max. speed for 4°C: 8,400 min⁻¹
- Angle: 30°

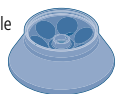
* 6-16HS / 6-16KHS: Max. temperature adjustment range 50°C



Tube										
Rated capacity (filling volume) [ml]	50 (43)	50	50	85 (73)	85 (76)	94 (85)	94	250 (232)	250 (232)	250
Diameter x length [mm]	28.5 x 107	28.5 x 101.5	29 x 117	38 x 112	38 x 112	38 x 103	38 x 110	61.4 x 122	61.4 x 122	61.4 x 125
Tube material	PF	Stainless steel	PP	PF	PPCO	Stainless steel	PC	PF	PPCO	Stainless steel
Item no.	15051	13055	15151	15080	15076	13085	15094	15247	15249	13255

Adapter

for fixed-angle rotor 12356



				
Bore diameter x length [mm]	29.5 x 98	30 x 102	38.5 x 99	61.8 x 111
Tubes per adapter / rotor	1 / 6	1 / 6	1 / 6	– / 6
Centrifuging radius [mm]	137	141	138	145
Item no.	14129	14131	14134	–

Tube									
Rated capacity (filling volume) [ml]	1.5	2	10	10	10	15	30 (26)	30 (26)	30 (28)
Diameter x length [mm]	10.7 x 42	10.7 x 42	16.1 x 81.1	16.1 x 81.1	16.1 x 81.1	16.5 x 120	25.3 x 98	25.3 x 98	25.3 x 98
Tube material	PP	PP	PF	PC	PPCO	PP	PF	PPCO	PC
Item no.	15008	15040	15000	15010	15039	15115	15029	15032	15030

Adapter

for fixed-angle rotor 12600



					
Bore diameter x length [mm]	12 x 38.5	16.5 x 69	17.7 x 107	17.7 x 107	26 x 83
Tubes per adapter / rotor	12 / 72	8 / 48	2 / 12*	5 / 30	3 / 18
Centrifuging radius [mm]	129	160	126	164	148
Item no.	14151	14144	14148*	14149	14146

* Adapters for 2 x 15 ml and 2 x 50 ml culture tubes

Fixed-angle rotor 12600*

with aluminium lid 17600 and torque wrench kit 17060

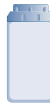
- Max. capacity: 6 x 500 ml
- Max. speed (6-16S / 6-16KS): 8,000 / 9,600 rpm
- Max. RCF (6-16S / 6-16KS): 11,949 / 17,207 x g
- Biosafe with aluminium lid 17600 
- Max. speed for 4°C: 8,400 min⁻¹
- Angle: 30°

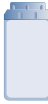
* 6-16HS / 6-16KHS: Max. temperature adjustment range 50°C



Tube										
Rated capacity (filling volume) [ml]	50 (38)	50 (43)	50	50	85 (73)	85 (76)	94 (85)	94	175	200
Diameter x length [mm]	28.8 x 107	28.5 x 107	28.5 x 101.5	29 x 117	38 x 112	38 x 112	38 x 103	38 x 110	61.5 x 139.2	61 x 130
Tube material	PPCO	PF	Stainless steel	PP	PF	PPCO	Stainless steel	PC	PP	PP
Item no.	15052	15051	13055	15151	15080	15076	13085	15094	15175	15174

Adapter					
for fixed-angle rotor 12600					
Bore diameter x length [mm]		29.5 x 97	29.5 x 102	38.5 x 99	62 x 127
Tubes per adapter / rotor		2 / 12	2 / 12*	1 / 6	1 / 6
Centrifuging radius [mm]		162	126	164	167
Item no.		14150	14148*	14153	14157

Tube								
Rated capacity (filling volume) [ml]	250 (232)	250 (232)	250	250	250	500 (435)	500 (435)	500
Diameter x length [mm]	61.4 x 122	61.4 x 122	61.4 x 125	59.7 x 171.2	61 x 145	69 x 165	69 x 165	69.5 x 152
Tube material	PF	PPCO	Stainless steel	PP	PP	PF	PPCO	Stainless steel
Item no.	15247	15249	13255	—	—	15507	15508	13507

Adapter					
for fixed-angle rotor 12600					
Bore diameter x length [mm]		62 x 115	62 x 127	69.9 x 142	
Tubes per adapter / rotor		1 / 6	1 / 6	— / 6	
Centrifuging radius [mm]		157	167	167	
Item no.		14155	14157	—	

* Adapters for 2 x 15 ml and 2 x 50 ml culture tubes

Material properties

Guideline for optimal tube selection

Due to the many factors that influence material properties, this overview is only intended as a general recommendation. There is no guarantee of the stated properties. Users should therefore carefully

test materials for suitability under specific application conditions.

Tubes should be discarded as soon as they show any sign of material fatigue.

	Polycarbonate (PC)	Polyvinyl fluoride (PF)	Polystyrene (PS)	Polyethylene (PE)	Polypropylene (PP)
Autoclave resistant	Yes	Yes	No	No	Yes
Elasticity	Not elastic	Not elastic	Not elastic	Good	Not elastic
Transparency	Transparent	Translucent	Transparent	Translucent	Translucent
Microwave resistant	Moderate	Yes	No	Limited	Moderate
Chemical resistance					
Weak acids	Yes	Yes	Yes	Yes	Yes
Strong acids	No	Yes	Limited	Yes	Yes
Alcohols and alkalis	No	Yes	Yes	Yes	Yes
Salts	Limited	Yes	Limited	Yes	Yes
Note:	Frequent autoclaving leads to loss of strength	Tubes should be completely filled and closed for use at maximum RCF			

	PP copolymer (PPCO)	Glass	High-speed glass (HS glass)	Stainless steel
Autoclave resistant	Yes	Yes	Yes	Yes
Elasticity	Moderate	Not elastic	Not elastic	Not elastic
Transparency	Translucent	Transparent	Transparent	Opaque
Microwave resistant	Moderate	Yes	Yes	No
Chemical resistance				
Weak acids	Yes	Yes	Yes	Limited
Strong acids	Yes	Yes	Yes	Limited
Alcohols and alkalis	Yes	Yes	Yes	Yes
Salts	Yes	Yes	Yes	Limited
Note:		Max. RCF for all glass tubes approx. 4,000 x g	High-speed glass for maximum RCF of 13,100 x g	

Spincontrol S controller

Intuitive operation and many options

The patented one-knob Spincontrol S controller sets standards in control technology for laboratory centrifuges. All parameters, such as speed, RCF or temperature, are set using the multifunction knob and can even be altered during operation. Illuminated buttons for starting, stopping and lid opening facilitate access to these functions.

Along with manual parameter configuration, previously entered programs can be selected via shortcuts. These programs can be assigned alphanumeric names to enhance process reliability and simplify operation. Another practical feature is the progress bar that visualises program status and can be seen at a distance. All setpoint and actual values are constantly shown on the clearly organised display.

The countless features leave nothing to be desired: timer after setpoint speed reached, capacity for 60 programs, password protection against unintentional alteration of run parameters, rotor cycle counter. Those are just a few of the highlights that make the Spincontrol S controller a highly versatile system that will help you to meet the laboratory requirements of the future.

This premium controller from Sigma supports internal quality management functions as well as external communication with a laboratory information management system (LIMS). That way the Spincontrol S supports traceable professional reporting.

Display	TFT
Message window	+
Constant display of setpoints and actual values	+
Languages	DE, GB, PT, FR, ES, RU, HU, IT, SE, CN
Timer (s; h:min)	10 – 99:59
Timer tracks time after setpoint speed is reached; switchable	+, +
Time increment [s]	60; 1
Short run, Continuous run	+, +
Speed increment [rpm]	100; 1
Temperature increment [°C]	1***
RCF increment [x g]	10; 1
Progress indicator	+
Programs	60
User-definable program name (alphanumeric)	+
Program list, preview of all parameters	+, +
Linear acceleration curves	10
Quadratic acceleration curves	10
User-definable acceleration curves	10
Linear braking curves	10
Quadratic braking curves	10
User-definable braking curves	10
Free run-out	+
Automatic lid opening at end of run, switchable	+, +
Start delay (clotting time) adjustable/switchable	+, +
Standstill cooling; switchable	+, +*
Standstill heating; switchable	+, +**
Pre-cooling program	+
Temperature deviation monitoring, settable	+***
Audible signal, switchable	+, +
Visual standstill indication	+
Centrifuge cycle count	+
Rotor cycle monitoring	+
Rotor end-of-life warning	+
Configurable for liquids > 1.2 g/cm ³	+
Lockable controller with password protection	+
Microprocessor control	+

Spincontrol S
Get more information.
View our video:



* Only for Sigma 6-16KS and Sigma 6-16KHS; ** Only Sigma 6-16HS and Sigma 6-16KHS; *** Only Sigma 6-16HS, 6-16KS and 6-16KHS

Premium quality

Made in Germany

The Sigma 6-16 series meets the highest technical requirements of laboratory standards. Developed and produced at our facility in Osterode, Germany, they are high-performance, durable and energy-efficient quality products and conform to the latest safety, emissions and environmental standards. Sigma guarantees the availability of spare parts and wearing parts for at least 10 years. Furthermore, you benefit from our extensive services portfolio, including commission-

ing, maintenance, device calibration and more. Our qualified service technicians are ready to provide professional maintenance and repair as well as loaner devices if necessary. All support services are designed to maintain reliability and optimise system availability.

Service Sigma

For maintenance and repairs please contact our Service department at:



Calibration

Documented proof of compliance with essential technical parameters.

Speed or run time (item no. 17713)
Speed and run time (item no. 17714)
Speed, run time, temperature (item no. 17715)

Device qualification (IQOQ)

This comprehensive device qualification includes installation qualification and metrological checking of all functional parameters with a rotor.

IQOQ documents (item no. 170000)
IQOQ on site (upon request)



WEEE reg. no.
DE 76714077

	Sigma 6-16S / 6-16HS	Sigma 6-16KS / 6-16KHS
Max. capacity [ml]		
Swing-out rotor	4 x 1,000	4 x 1,000
Fixed-angle rotor	6 x 500	6 x 500
Max. RCF	21,917	25,419
Maximum speed [rpm]	13,500	15,000
Minimum speed [rpm]	100	100
Noise level at maximum speed (approximate) [dB(A)]		
Swing-out rotor 11660 and 13450	≤ 71	≤ 57
Fixed-angle rotor 12449	≤ 63	≤ 66
Max. acceleration time [s]		
Swing-out rotor 11660 and 13450	≤ 29	≤ 34
Fixed-angle rotor 12449	≤ 26	≤ 28
Max. braking time [s]		
Swing-out rotor 11660 and 13450	≤ 28	≤ 34
Fixed-angle rotor 12449	≤ 40	≤ 43
Temperature adjustment range [°C]	- / 0 – +70	-20 – +40 / -20 – +60
Power consumption [W]	1,300 / 2,000	2,000
Height x width x depth [mm]	483 x 581 x 711	485 x 790 x 711
Height with open lid [mm]	990	990
Weight without rotor [kg]	116	158
Refrigerant		R452A
Filling quantity [kg] / Max. permissible pressure [bar]		0.590 / 28
CO₂ equivalent [t]		1.263

Sigma 6-16S centrifuge

220–240 V, 50 Hz (item no. 10390)
208 V, 60 Hz (item no. 10391)
200 V, 50/60 Hz (item no. 10392)

Sigma 6-16KS centrifuge

220–240 V, 50 Hz (item no. 10395)
220–240 V, 60 Hz (item no. 10396)
208 V, 50/60 Hz (item no. 10397)
200 V, 50/60 Hz (item no. 10398)

Sigma 6-16KS centrifuge, GMP

water-cooled compressor
220–240 V, 50 Hz (item no. 91401)

Sigma 6-16HS centrifuge

220–240 V, 50/60 Hz (item no. 10393)

Sigma 6-16KHS centrifuge

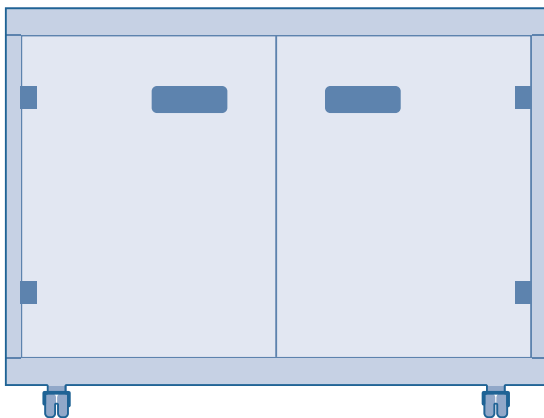
220–240 V, 50 Hz (item no. 10399)
220–240 V, 60 Hz (item no. 10400)

Sigma 6-16KHS, inert gas

220–240 V, 50/60 Hz (item no. 91025)

Centrifuge tables

Sigma centrifuge tables are available in six different sizes. Matched to the corresponding centrifuge dimensions, they combine convenient work height with an optimally calculated footprint. The tables are made from coated sheet steel and are equipped with a storage compartment (with two doors) and a convenient pull-out shelf. Lockable castors allow the centrifuge tables to be easily moved and positioned in the laboratory.



Centrifuge table 17920

For Sigma 2-16KL
W x H x D [mm]: 600 x 501 x 550

Centrifuge table 17921

For Sigma 6-16KS
W x H x D [mm]: 790 x 515 x 684

Centrifuge table 17922

For Sigma 6-16S
W x H x D [mm]: 581 x 481 x 684

Centrifuge table 17923

For Sigma 3-30KS
W x H x D [mm]: 570 x 481 x 616

Centrifuge table 17926

For Sigma 3-16KL, 3-18KS, 4-16KS
W x H x D [mm]: 650 x 501 x 647

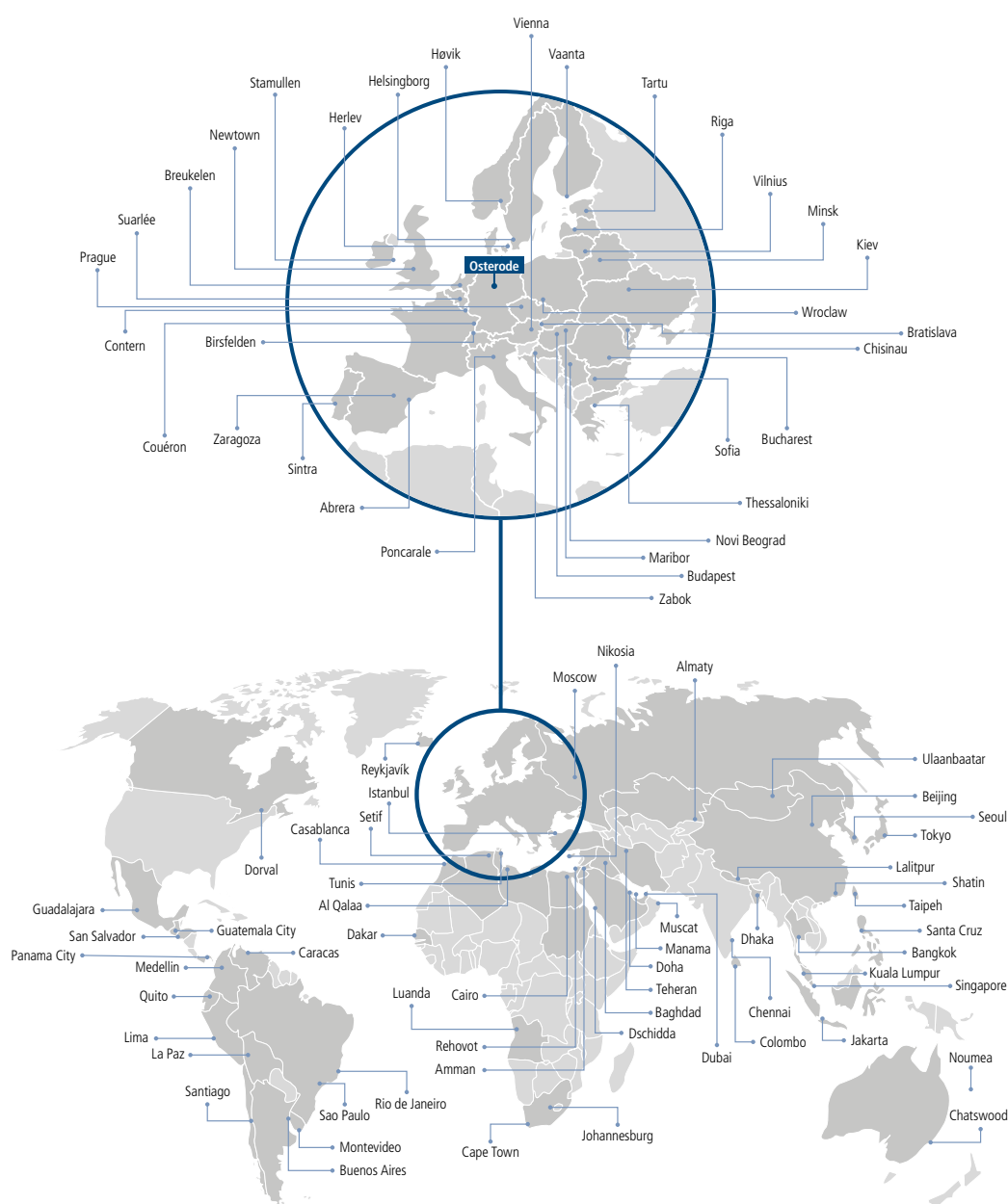
Centrifuge table 17927

For Sigma 3-16L, 4-5L, 4-16S
W x H x D [mm]: 490 x 497 x 647

Global service

For local product security

Our trained service partners in over 100 countries ensure consistently high quality in accordance with national regulations. Our specialists can also be engaged quickly around the world, either remotely or on site in person.



Selected locations of our representatives.

An overview of all representatives with detailed contact information can be found at www.sigma-zentrifugen.de/en/sales-partners/



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