

ROTANTA 460 RC / 460 RF

Model ROTANTA 460 RC is a refrigerated floor-standing centrifuge. It rests on castors, can be easily pushed beneath the workbench and

thus does not take up any space on top of the workbench. A further option is the refrigerated ROTANTA 460 RF floor-standing centrifuge.



TECHNOLOGY	ROTANTA 460 RC >)		ROTANTA 460 RF >)	
	Underbench centrifuge, cooled, without rotor		Floorstanding centrifuge, cooled, without rotor	
Power supply*)	200 – 240 V 1~		100 – 127 V 1 ~	100 V 1 ~
Frequency	50 Hz		60 Hz	50 Hz
Consumption	1,800 VA		2,000 VA	
Emission, Immunity	EN / IEC 61326-1, class B		EN / IEC 61326-1, class B	FCC class B
Max. capacity	4 x 750 ml			
Max. RPM (speed)	15,000 min ⁻¹			
Max. RCF	24,400			
Running time	1 s–99 h : 59 min : 59 s, ∞ continuous run, short cycle mode			
Dimensions (H x W x D)	683 x 554 x 697 mm		961 x 554 x 697 mm	
Weight	approx. 140 kg		approx. 164 kg	approx. 174 kg
Refrigeration				
temperaturee control, infinitely variable	from -20 to +40 °C			
Cat. No.	5670		5675	5675-01

ROTORS

Swing-out rotor, 4-place



illustrated with carriers 5625-A and lids 5627 with bio-containment⁵⁾

∠ 90° n = 4,600 min⁻¹ max. RCF 5,063

Cat. No. (without carriers) **5699-R**

capacity in ml	1.5	2.0	3	4	4	5	6	7	15	25	50	94
Ø x L in mm	11 x 38		10 x 60	10 x 88	12 x 60	12 x 75	12 x 82	12 x 100	17 x 100	24 x 100	34 x 100	38 x 102
Cat. No.	2078	0536	-			0553²⁾	0501²⁾	0578²⁾	0518²⁾	0519²⁾	0521²⁾	0549
lid with bio-containment ⁵⁾ Cat. No. 5627												
carrier Cat. No. 5625-A												
Cat. No.	4730				4732			4733	4734	4735	4736	
boring Ø x L in mm	11 x 84				13.5 x 84			17.5 x 84	26.5 x 84	36 x 80	42 x 80	
tubes per rotor	224		120		80			68	24	12		
max. RCF ²⁾ upper / lower	3,572 / 4,637					4,637					4,495	
radius in mm upper / lower	151 / 196					196					190	
run-up in sec							90					
run-down in sec, braked							95					
temperature in °C ¹⁾							+4					

capacity in ml	100	100	250	1.1 – 1.4	2.6 – 3.4	2.7 – 3	4 – 5.5	4.5 – 5	4.9	7.5 – 8.5	9 – 10	10
Ø x L in mm	44 x 100	40 x 115	65 x 115	8 x 66	13 x 65	11 x 66	15 x 75	11 x 92	13 x 90	15 x 92	16 x 92	15 x 102
Cat. No.	0526²⁾	0523²⁾	0530²⁾	blood collection / urine tubes								
lid with bio-containment ⁵⁾ Cat. No. 5627												
carrier Cat. No. 5625-A												
Cat. No.	4737	4736	4738	4730	4732	4733	4732	4733				
boring Ø x L in mm	46 x 84	42 x 80	66 x 80	11 x 84	13.5 x 84	17.5 x 84	13.5 x 84	17.5 x 84				
tubes per rotor	8	12	4	120	80	68	80	68				
max. RCF ²⁾	4,637	4,495					4,637					
radius in mm	196	190					196					
run-up in sec							90					
run-down in sec, braked							95					
temperature in °C ¹⁾							+4					

1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote²⁾ is 4,000.

4) Please remove the inserts.

Swing-out rotor 5699-R



Most of the adapters for carriers 5625-A and 4880 are built in layers. For shorter tubes, 1 to 2 layers should be removed. In the tables, the required layers are marked in grey.

capacity in ml	1.6-5	4-7	4-7	8.5-10	14	15	50	12	25	30	50	10	30	50	85	94
Ø x L in mm	13x75	13x100	16x75	16x100	16.5x106	17x120	29x115	17x100	25x90	25x110	29x115	16x80	26x95	29x107	38x106	38x102
Cat. No.	blood collection / urine tubes				-	0509	0513	-				-	0545	0546	0547	0538 ¹³⁾
lid with bio-containment ⁵⁾ Cat. No. 5627																
carrier Cat. No. 5625-A																
Cat. No.	4732	4733	4739 ⁴⁾	4739	4740	4739 ⁴⁾	4734	4740 ⁴⁾	4733	4734	4740 ⁴⁾	4736				
boring Ø x L in mm	13.5x84	17.5x84	17x80		30x80	17x80	26.5x84	30x80	17.5x84	26.5x84	30x80	42x80				
tubes per rotor	80	68	48		20	48	24	20	68	24	20	12				
max. RCF ²⁾	4,637											4,495				
radius in mm	196											190				
run-up in sec												90				
run-down in sec, braked												95				
temperature in °C ¹⁾												+4				

capacity in ml	1.5	2.0	3	4	4	5	6	7	15	25	45	50	94	100
Ø x L in mm	11x38		10x60	10x88	12x60	12x75	12x82	12x100	17x100	24x100	31x100	34x100	38x102	40x115
Cat. No.	2078	0536	-			0553 ²⁾	0501 ²⁾	0578 ²⁾	0518 ²⁾	0519 ²⁾	-	0521 ²⁾	0549	0523 ²⁾
lid with bio-containment ⁵⁾ Cat. No. 4883														
carrier Cat. No. 4880														
Cat. No.	4830			4832				4833	4834	4835		4836		
boring Ø x L in mm	11x84			13.5x84				17.5x84	26.5x84	36x80		42x80		
tubes per rotor	192	96		76				28		16		12		
max. RCF ²⁾ upper / lower	3,572/4,637			4,637						4,495				
radius in mm upper / lower	151/196			196						190				
run-up in sec				90										
run-down in sec, braked				95										
temperature in °C ¹⁾				+4										

⁵⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

¹³⁾ The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 110 mm.

ROTORS

Swing-out rotor 5699-R



illustrated with carriers 4880
and lids 4883 with bio-containment⁵⁾

capacity in ml	100	250	1.1–1.4	2.6–3.4	2.6–3.4	2.7–3	4–5.5	4.5–5	4.9	4.9	7.5–8.5	9–10	9–10	10	1.6–5	1.6–5
Ø x L in mm	44x100	65x115	8x66	13x65	13x65	11x66	15x75	11x92	13x90	13x90	15x92	16x92	16x92	15x102	13x75	13x75
Cat. No.	0526²⁾	0530²⁾	blood collection / urine tubes													
lid with bio-containment ⁵⁾ Cat. No. 4883																
carrier Cat. No. 4880																
Cat. No.	4837	4838	4830	4847	4832	4833	4832	4847⁴⁾	4833	4848	4833	4847	4832			
boring Ø x L in mm	46x84	66x80	11x84	13.2x61	13.5x84	17.5x84	13.5x84	13.2x61	17.5x84	17.5x61	17.5x84	13.2x61	13.5x84			
tubes per rotor	8	4	96	108	76			108	76	88	76	108	76			
max. RCF ²⁾	4,637	4,495	4,637	4,116	4,637			4,684	4,637	4,684	4,637	4,116	4,637			
radius in mm	196	190	196	174	196			198	196	198	196	174	196			
run-up in sec									90							
run-down in sec, braked									95							
temperature in °C ¹⁾									+4							

capacity in ml	4–7	4–7	4–7	4–7	8	8.5–10	8.5–10	5	14	15	50	50	12	25	30	
Ø x L in mm	13x100	13x100	16x75	16x75	16x125	16x100	16x100	17x59	16.5x106	17x120	29x115	29x115	17x100	25x90	25x110	
Cat. No.	blood collection / urine tubes										-	0509	0513	0513	-	-
lid with bio-containment ⁵⁾ Cat. No. 4883																
carrier Cat. No. 4880																
Cat. No.	4847⁴⁾	4832	4833	4848	4833	4848	4839	4839⁴⁾	4839	5647	4840	4839⁴⁾	4834			
boring Ø x L in mm	13.2x61	13.5x84	17.5x84	17.5x61	17.5x84	17.5x61	17x80			30x96.5	30x80	17x80	26.5x84			
tubes per rotor	108	76	76	88	76	88	56			28	20	56	28			
max. RCF ²⁾	4,684	4,637	4,637	4,684	4,637	4,684	4,637			4,708	4,637					
radius in mm	198	196	196	198	196	198	196			199	196					
run-up in sec									90							
run-down in sec, braked									95							
temperature in °C ¹⁾									+4							

1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000.
 3) When using these tubes, carrier 1560 cannot be closed with lid 1561.
 4) Please remove the inserts.

Swing-out rotor 5699-R



Carrier 4885

The 4880 carrier is also available without a lid and clamp lock. The catalogue number is 4885.¹⁷⁾

capacity in ml	50	50	10	10	30	50	50	85	94	250	290	500	600	650	750
Ø x L in mm	29x115	29x115	16x80	16x80	26x95	29x107	29x107	38x106	38x102	61x122	62x137	96x147	93x134	97x139	97x152
Cat. No.	-	-	-	-	0545	0546	0546	0547	0538 ¹³⁾	5127 ²⁸⁾	- ²⁸⁾	Corning [®]	0551 ²⁸⁾	0554 ²⁸⁾	0512 ²⁸⁾
lid with bio-containment ⁵⁾ Cat. No. 4883															
carrier Cat. No. 4880															
Cat. No.	5647 ⁴⁾	4840 ⁴⁾	4833	4848	4834	4840 ⁴⁾	5647 ⁴⁾	4836	4841	4845	4846	4845	4845	4846	4845
boring Ø x L in mm	30x96.5	30x80	17.5x84	17.5x61	26.5x84	30x80	30x96.5	42x80	62x100	98x100	94x95	98x100	94x95	98x100	98x100
tubes per rotor	28	20	76	88	28	20	28	12	12	4	4	4	4	4	4
max. RCF ²⁾	4,708	4,637	4,637	4,684	4,637	4,708	4,495	4,495	4,495	4,779	4,779	4,779	4,779	4,779	4,779
radius in mm	199	196	196	198	196	199	190	190	190	202	202	202	202	202	202
run-up in sec								90	90	90	90	90	90	90	90
run-down in sec, braked								95	95	95	95	95	95	95	95
temperature in °C ¹⁾								+4	+4	+4	+4	+4	+4	+4	+4

capacity in ml	450	750	30/50	40	160	200			
Ø x L in mm	97x110	96x135							
Cat. No.	4447	4234-A	Falcon [®]	Corning [®]	Nunc [®]	Nunc [®]	Falcon [®]	Greiner	Nunc [®]
lid with bio-containment ⁵⁾ Cat. No. 4883									
carrier Cat. No. 4880									
Cat. No.	4845	4849	4852	4851	4831				
boring Ø x L in mm	98x100								
tubes per rotor	4								
max. RCF ²⁾	4,779			4,613 ³¹⁾					
radius in mm	202			195					
run-up in sec				90					
run-down in sec, braked				95					
temperature in °C ¹⁾				+4					

Accommodated cell culture flasks:

30/50 ml

from Becton Dickinson, No. 353014
from Corning, No. 430168

40 ml

from Nunc, No. 156340

160 ml

from Nunc, No. 156472
from Sarstedt, No. 83.3911.xxx

200 ml

from Becton Dickinson, No. 353024
from Greiner, No. 658170
from Nunc, No. 153732 or 147589

⁵⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

¹³⁾ The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 110 mm.

¹⁷⁾ With the E3905 add-on kit and the 4783 lid, the 4785 carrier can be converted at a later time to a 4780 carrier with single-hand clamp lock.

²⁸⁾ At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

³¹⁾ Please note that the RCF values indicated refer only to rotor performance. The max. RCF for the accommodated cell culture flasks is 2,300.

ROTORS

Swing-out rotor 5699-R



illustrated with carriers 4890 and lids 4883 with bio-containment⁵⁾



illustrated with carriers 4890

capacity in ml	1.5	2.0	5	7	8	9	15	25	50	100	2.6–3.4	2.7–3	4–5.5	4.5–5
Ø x L in mm	11x38		12x75	12x100	16x81	14x100	17x100	24x100	34x100	44x100	13x65	11x66	15x75	11x92
Cat. No.	2078	0536	0553²⁾	0578²⁾	-	0500²⁾	0518²⁾	0519²⁾	0521²⁾	0526²⁾	blood collection tubes			
lid with bio-containment ⁵⁾ Cat. No. 4883														
carrier Cat. No. 4890														
Cat. No.	4432	4433	4434	4438	4439	4442	4435	4433	4434	4433	4434	4433	4434	4433
boring Ø x L in mm	11.5x38	13x58	17.5x53	26x72	36x79	45x78	13.5x58	13x58	17.5x53	13x58	17.5x53	13x58	17.5x53	13x58
tubes per rotor	168	120	76	28	16	8	84	120	76	120	76	120	76	120
max. RCF ²⁾ upper / lower	3,407 / 4,542	4,471	4,637	4,353	4,424	4,400	4,471	4,637	4,471	4,637	4,471	4,637	4,471	4,471
radius in mm upper / lower	144 / 192	189	196	184	187	186	189	196	189	196	189	196	189	189
run-up in sec	90													
run-down in sec. braked	95													
temperature in °C ¹⁾	+4													

capacity in ml	4.9	7.5–8.5	9–10	10	1.6–5	4–7	4–7	8	8.5–10	10	15	50	25	30	50	50	
Ø x L in mm	13x90	15x92	16x92	15x102	13x75	13x100	16x75	16x125	16x100	16x80	17x120	29x115	25x90	25x110	29x115	29x107	
Cat. No.	blood collection / urine tubes										-	0509	0513	-	-	-	0546
lid with bio-containment ⁵⁾ Cat. No. 4883																	
carrier Cat. No. 4890																	
Cat. No.	4435	4434	4435	4434	4435	4434	4435	4434	4435	4434	4469	4468	4438	4468⁴⁾	4468	4468	4468
boring Ø x L in mm	13.5x58	17.5x53	13.5x58	17.5x53	13.5x58	17.5x53	13.5x58	17.5x53	13.5x58	17.5x53	17x93.1	31x96	26x72	31x96	31x96	31x96	31x96
tubes per rotor	84	76	84	76	84	76	84	76	84	76	56	28	28	28	28	28	28
max. RCF ²⁾	4,471	4,637	4,471	4,637	4,471	4,637	4,471	4,637	4,471	4,637	4,755	4,613	4,566	4,613	4,566	4,613	4,613
radius in mm	189	196	189	196	189	196	189	196	189	196	201	195	193	195	193	195	195
run-up in sec	90																
run-down in sec. braked	95																
temperature in °C ¹⁾	+4																

¹⁾ Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000.
³⁾ When using these tubes, carrier 1560 cannot be closed with lid 1561.
⁴⁾ Please remove the inserts.

Swing-out rotor 5699-R



Carrier 4895

The 4890 carrier is also available without a lid and clamp lock. The catalogue number is 4895.¹⁷⁾

capacity in ml	250	290	650	750	175	175	200	225	250	500
Ø x L in mm	61x122	62x137	97x139	97x152	61x118	62x144	60x130	61x137	60x162	96x147
Cat. No.	5127 ²⁸⁾	- ²⁸⁾	0554 ²⁸⁾	0512 ²⁸⁾	Falcon®	Nalgene®	Nunc®	Falcon®	Corning®	Corning®
lid with bio-containment ⁵⁾ Cat. No. 4883										
carrier Cat. No. 4890										
Cat. No.	4443	4451	4440	4430	4440	4430	4440	4430	4449	
boring Ø x L in mm	62x92	98.4x116								
tubes per rotor					4					
max. RCF ²⁾		4,873					5,063			
radius in mm		206					214			
run-up in sec					90					
run-down in sec, braked					95					
temperature in °C ¹⁾					+4					

capacity in ml	450	750	450
Ø x L in mm	97x110	96x135	triple system without filter
Cat. No.	4447	4234-A	blood bags ³²⁾
lid with bio-containment ⁵⁾ Cat. No. 4883			
carrier Cat. No. 4890			
Cat. No.	4451	-	
boring Ø x L in mm	98.4x116		
tubes per rotor		4	
max. RCF ²⁾		5,063	
radius in mm		214	
run-up in sec		90	
run-down in sec, braked		95	
temperature in °C ¹⁾		+4	

⁵⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

¹⁷⁾ With the E3905 add-on kit and the 4783 lid, the 4785 carrier can be converted at a later time to a 4780 carrier with single-hand clamp lock.

²⁸⁾ At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

³²⁾ We recommend the use of the refrigerated ROTANTA 460 R, 460 RC or 460 RF to ensure that the temperature of the blood is maintained during centrifugation.

ROTORS





Swing-out rotor **5699-R**

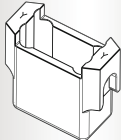





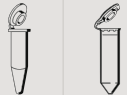




















carrier 5691-A, insert 5692 and holders 5693 and 5695



illustrated with carriers 5628 and adapters 6338-B

capacity in ml	450	
blood bags^{3a)}	triple system	quadruple system
Cat. No.	5693	5695
	holder for systems without filter 	holder for systems with or without filter 
carrier Cat. No. 5691-A		
Cat. No.	5692	
boring Ø x L in mm	-	
blood bag systems per rotor	4	
max. RCF ²⁾	4,637	
radius in mm	196	
run-up in sec	90	
run-down in sec, braked	95	
temperature in °C ¹⁾	+11	

capacity in ml	-
L x W x H in mm	152.5x85.5x12
Cat. No.	-
	TaqMan Array 
carrier Cat. No. 5636	
Cat. No.	5648
boring Ø x L in mm	-
arrays per rotor	12
max. RCF ²⁾	4,921
radius in mm	208
run-up in sec	90
run-down in sec, braked	95
temperature in °C ¹⁾	+4

capacity in ml	1.5	2.0	3	5	6	7	9	25	50	100	100	250
Ø x L in mm	11x38		10x60	12x75	12x82	12x100	14x100	24x100	34x100	44x100	40x115	65x115
Cat. No.	2078	0536	-	0553²⁾	0501²⁾	0578²⁾	0500²⁾	0519²⁾	0521²⁾	0526²⁾	0523²⁾	0530²⁾
(without lid 5629) adapting frame Cat. No. 5220-A												
carrier Cat. No. 5628¹⁾	+ 5220-A 	+ 5220-A 	+ 5220-A 			+ 5220-A 	+ 5220-A 	+ 5220-A 	+ 5220-A 	+ 5220-A 	+ 5220-A 	+ 5220-A 
Cat. No.²⁾	5281	5267	5268			5264	5242	5243	5262	5249	5263-A	
boring Ø x L in mm	11.5x50	11x44	13.5x52			16x50	26x86	36x86	45.5x86	42x86	66x87	
tubes per rotor	128	160	96			96	40	16	8		4	
max. RCF ²⁾	4,164	4,069	4,164			4,116	4,093		4,069		4,045	
radius in mm	176	172	176			174	173		172		171	
run-up in sec	90											
run-down in sec, braked	95											
temperature in °C ¹⁾	+4											

¹⁾ Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000.
⁴⁾ Please remove the inserts.
¹¹⁾ Please make sure not to exceed the max. permissible loading weight of 800 g of carrier 5628. The loading weight is the sum of the weight of the respective adapters, of frame 5220-A (where required), the tubes, and their contents.

Swing-out rotor 5699-R



illustrated with carriers 5628,
adapting frame 5220-A and
adapters 5258

capacity in ml	1.1–1.4	2.6–3.4	2.7–3	4–5.5	4.5–5	4.9	7.5–8.5	9–10	1.6–5	4–7	4–7	8.5–10
Ø x L in mm	8x66	13x65	11x66	15x75	11x92	13x90	15x92	16x92	13x75	16x75	13x100	16x100
Cat. No.	blood collection / urine tubes											
(without lid 5629) adapting frame Cat. No. 5220-A												
carrier Cat. No. 5628 ¹⁾	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A
Cat. No.²⁾	5267	5268	5227	5264	5227	5268	5264	5258	5268	5264	5268	5258
boring Ø x L in mm	11x44	13.5x52	12.5x42	16x50	12.5x42	13.5x52	16x50	17.6x86	13.5x52	16x50	13.5x52	17.6x86
tubes per rotor	160	96	160	96	160	96	96	88	96		88	
max. RCF ³⁾	4,069	4,164	4,116		4,164		4,116	4,093	4,164	4,116	4,164	4,093
radius in mm	172	176	174		176		174	173	176	174	176	173
run-up in sec	90											
run-down in sec, braked	95											
temperature in °C ¹⁾	+4											

capacity in ml	15	30	50	50	250	two-tier frame for cyto accessories
Ø x L in mm	17x120	25x110	29x115	29x115	61x122	
Cat. No.	0509	-	0513	-	5127²⁾	cyto chambers
(without lid 5629) adapting frame Cat. No. 5220-A						
carrier Cat. No. 5628 ¹⁾	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A + 6319	+ 5220-A
Cat. No.²⁾	6337-B	5266⁴⁾	6338-B	6339-A	5263-A⁴⁾	5280
boring Ø x L in mm	17x90	26x86	30x90	30x87	66x87	-
tubes per rotor	56	40	24	24	4	16
max. RCF ³⁾ upper / lower	4,258	4,187	4,258	4,187		2,744/4,069
radius in mm upper / lower	180	177	180	177		116/172
run-up in sec	90					
run-down in sec, braked	95					
temperature in °C ¹⁾	+4					



Carrier 5628, adapting frame 5220-A and
adapters 5258



Carrier 5628 and adapter 6338-B

²⁾ With the exception of adapters 5263-A, 6337-B, 6338-B and 6339-A, two of these adapters need to be placed into carrier 5628.

²⁾ At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

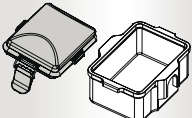

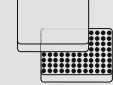
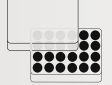

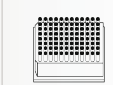
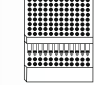



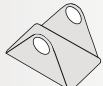


³⁾ We recommend the use of the refrigerated ROTANTA 460 R, 460 RC or 460 RF to ensure that the temperature of the blood is maintained during centrifugation.

ROTORS

Swing-out rotor 5699-R



illustrated with carriers 5628
and lids 5629 with bio-containment ⁵⁾
and removal frame 4626

D x W x H in mm	86x128x15	86x128x17.5	86x128x22	86x128x44.5	86x128x46	86x128x83	59x84x11	82x124x20	-
capacity in ml									0.2
Cat. No.	MTP		CP	DWP	MS	QP	Microtest plate (Terasaki)	PCR plate, 96 wells	PCR strips
lid with bio-containment ⁵⁾ Cat. No. 5629 									
carrier Cat. No. 5628 ¹⁾									 
Cat. No.	4626							4626 + 1485	
boring Ø x L in mm	-								
plates / strips per rotor	24	20	16	4	4	4	8	4	48x8
max. RCF ²⁾	4,211								
radius in mm	max. 178								
run-up in sec	90								
run-down in sec, braked	95								
temperature in °C ¹⁾	+4								

¹⁾ Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.










²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000.

⁵⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

Swing-out rotor 5699-R



illustrated with carriers 5630-B
and removal frame 4626



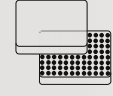
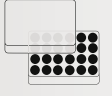


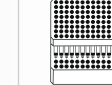





capacity in ml	40	160	200		
T x B x H in mm	-				
Cat. No.	Nunc®	Nunc®	Falcon®	Greiner	Nunc®
					
carrier Cat. No. 5630-B					
Cat. No.	5672	5673	5671		
boring Ø x L in mm	-				
flasks per rotor	4				
max. RCF ²⁾	3,785 ³⁾				
radius in mm	160				
run-up in sec	90				
run-down in sec, braked	95				
temperature in °C ¹⁾	+4				

Accommodated cell culture flask:

40 ml
from Nunc, No. 156340 or 156367

160 ml
from Nunc, No. 156472 or 156499
from Sarstedt, No. 83.3911.xxx

200 ml
from Becton Dickinson, No. 353024
from Greiner, No. 658170
from Nunc, No. 153732 or 147589

T x B x H in mm	86x128x15	86x128x17.5	86x128x22	86x128x44.5	86x128x46	86x128x83	59x84x11	82x124x20	-
capacity in ml	-								
	0.2								
Cat. No.	MTP		CP	DWP	MS	QP	Microtest plate (Terasaki)	PCR plate, 96 wells	PCR strips
									
carrier Cat. No. 5630-B									
Cat. No.	4626							4626 + 1485	
boring Ø x L in mm	-								
plates / strips per rotor	20	16	12	4	4	4	8	4	48x8
max. RCF ²⁾	3,832								
radius in mm	max. 162								
run-up in sec	90								
run-down in sec, braked	95								
temperature in °C ¹⁾	+4								

¹⁾ Please make sure not to exceed the max. permissible loading weight of 800 g of carrier 5628. The loading weight is the sum of the weight of the respective adapters, of frame 5220-A (where required), the tubes, and their contents.

³⁾ Please note that the RCF values indicated refer only to rotor performance. The max. RCF for the accommodated cell culture flasks is 2,300.

ROTORS

Swing-out rotor, 4 -place



illustrated with carriers 5651-A and lids 5652 with bio-containment ⁵⁾

∠ 90° n = 3,800 min⁻¹ max. RCF 3,196

Cat. No. (without carriers) 5654

capacity in ml	3	4	4	5	6	7	10	15	1.1–1.4	2.6–3.4	2.7–3	4.5–5
Ø x L in mm	10x60	10x88	12x60	12x75	12x82	12x100	13x100	17x100	8x66	13x65	11x66	11x92
Cat. No.	-	-	-	0553 ²⁾	0501 ²⁾	0578 ²⁾	-	0518 ²⁾	blood collection tubes			
lid with bio-containment ⁵⁾ Cat. No. 5652												
carrier Cat. No. 5651-A												
Cat. No.	5684			5674	5685	5682	5684	5674	5684			
boring Ø x L in mm	12.5x40			13.2x42.4	17.2x46.5	12.5x40	13.2x42.4	12.5x40	12.5x40			
tubes per rotor	292			196	188	148	292	196	292			
max. RCF ²⁾	2,874			2,906		2,970	2,874	2,906	2,874			
radius in mm	178			180		184	178	180	178			
run-up in sec	61											
run-down in sec, braked	57											
temperature in °C ¹⁾	0											

capacity in ml	4–5.5	4.9	7.5–8.5	9–10	10	1.6–5	4–7	4–7	8.5–10	10	5	15	50	
Ø x L in mm	15x75	13x90	15x92	16x92	15x102	13x75	16x75	13x100	16x100	16x80	17x59	17x120	29x115	
Cat. No.	blood collection / urine tubes											-	0509	0513
lid with bio-containment ⁵⁾ Cat. No. 5652														
carrier Cat. No. 5651-A														
Cat. No.	5682	5674	5682	5674	5682	5674	5685	5682	5688	5683	5686			
boring Ø x L in mm	17.2x46.5	13.2x42.4	17.2x46.5	13.2x42.4	17.2x46.5	13.2x42.4	13.2x42.4	17.2x46.5	17x42	17x60	30x60			
tubes per rotor	148	196	148	196	148	196	188	148	80	96	40			
max. RCF ²⁾	2,970	2,906	2,970	2,906	2,970	2,906	2,906	2,970	3,196	3,196	3,196			
radius in mm	184	180	184	180	184	180	180	184	198	198	198			
run-up in sec	61													
run-down in sec, braked	57													
temperature in °C ¹⁾	0													

¹⁾ Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000.
³⁾ When using these tubes, carrier 1560 cannot be closed with lid 1561.

Swing-out rotor 5654



illustrated with carriers 5651-A
and lids 5652 with bio-containment⁵⁾

capacity in ml	175	175	200	225	250	290	450	500	600	650	750	
Ø x L in mm	61x118	62x144	60x130	61x137	61x122	62x137	97x110	96x147	93x134	97x139	97x152	
Cat. No.	Falcon®	Nalgene®	Nunc®	Falcon®	5127²⁸⁾	-²⁸⁾	4447	Corning®	0551²⁸⁾	0554²⁸⁾	0512²⁸⁾	
lid with bio-containment ⁵⁾ Cat. No. 5652												
	+ 5677	+ 5676	+ 5677					+ 4449				
carrier Cat. No. 5651-A												
Cat. No.	5681						5687					
boring Ø x L in mm	62x100						98x100					
tubes per rotor	8						4					
max. RCF ²⁾							3,196					
radius in mm							198					
run-up in sec							61					
run-down in sec, braked							57					
temperature in °C ¹⁾							0					
D x W x H in mm	86x128x15	86x128x17.5	86x128x22	86x128x44.5	86x128x46	86x128x83	59x84x11	82x124x20	-	-	-	
capacity in ml											0.2	
Cat. No.	MTP		CP	DWP	MS	QP	Microtest plate (Terasaki)	PCR plate, 96 wells	PCR strips			
lid with bio-containment ⁵⁾ Cat. No. 5629												
carrier Cat. No. 5653												
Cat. No.	4626								4626 + 1485			
boring Ø x L in mm									-			
plates / strips per rotor	24	20	16	4	4	4	8	4	48x8			
max. RCF ²⁾									2,890			
radius in mm									max. 179			
run-up in sec									61			
run-down in sec, braked									57			
temperature in °C ¹⁾									-4			

⁵⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

²⁸⁾ At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

ROTORS

Swing-out rotor, 4 -place



illustrated with carriers 5051 and lids 5053



∠ 90° n = 4,000 min⁻¹ max. RCF 3,095

Cat. No. (without carriers) 5694

capacity in ml	1.5	2.0	1.5	2.0	5	6	7	9	15	25	50	100	100	1.1–1.4	2.6–3.4	2.7–3	4–5.5	
Ø x L in mm	11x38		11x38		12x75	12x82	12x100	14x100	17x100	24x100	34x100	44x100	40x115	8x66	13x65	11x66	15x75	
Cat. No.	-	-	2078	0536	0553 ²⁾	0501 ²⁾	0578 ²⁾	0500 ²⁾	0518 ²⁾	0519 ²⁾	0521 ²⁾	0526 ²⁾	0523 ²⁾	blood collection tubes				
lid Cat. No. 5053																		
carrier Cat. No. 5051																		
Cat. No.	5257	5281	5227	5247 ¹⁸⁾	5264	5248 ¹⁸⁾	5242	5243	5262	5249	5267	5268	5227	5264				
boring Ø x L in mm	12.5x42	11.5x50	12.5x42	12.5x86	16x50	17.5x86	26x86	36x86	45.5x86	42x86	11x44	13.5x52	12.5x42	16x50				
tubes per rotor	160	64	80	80	48	48	20	8	4	80	48	80	48					
max. RCF ²⁾ upper / lower	1,950/2,826	2,826	2,773	2,755	2,773	2,755	2,755	2,755	2,737	2,808	2,773							
radius in mm upper / lower	109/158	158	155	154	155	154	154	154	153	157	155							
run-up in sec	42																	
run-down in sec, braked	51																	
temperature in °C ¹⁾	-3																	

capacity in ml	4.5–5	4.9	7.5–8.5	9–10	10	1.6–5	4–7	4–7	8.5–10	15	50	12	30	50	two-tier frame for cyto accessories		
Ø x L in mm	11x92	13x90	15x92	16x92	15x102	13x75	16x75	13x100	16x100	17x120	29x115	17x100	25x110	29x115			
Cat. No.	blood collection / urine tubes											0509	0513	-	-	cyto chambers	
lid Cat. No. 5053																	
carrier Cat. No. 5051																	
Cat. No.	5227	5268	5264	5258	5268	5264	6301	5248	6306	5259	6306	5266	5243	5280			
boring Ø x L in mm	12.5x42	13.5x52	16x50	17.6x86	13.5x52	16x50	13.5x86	17.5x86	17x90	30x86	17x90	26x86	36x86	-			
tubes per rotor	80	48	48	44	48	48	28	8	28	20	8	8	8				
max. RCF ²⁾ upper / lower	2,773	2,808	2,773	2,755	2,808	2,773	2,755	2,898	2,826	2,898	2,755	1,735/2,737					
radius in mm upper / lower	155	157	155	154	157	155	154	162	158	162	154	97/153					
run-up in sec	42																
run-down in sec, braked	51																
temperature in °C ¹⁾	-3																

1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000.
 3) When using these tubes, carrier 1560 cannot be closed with lid 1561.

Swing-out rotor 5694



illustrated with carriers 5092

capacity in ml	5	6	7	15	25	50	100	100	250	1.1–1.4	1.1–1.4	2.6–3.4
Ø x L in mm	12x75	12x82	12x100	17x100	24x100	34x100	44x100	40x115	65x115	8x66	8x66	13x65
Cat. No.	0553²⁾	0501²⁾	0578²⁾	0518²⁾	0519²⁾	0521²⁾	0526²⁾	0523²⁾	0530²⁾	blood collection tubes		
lid with bio-containment ⁵⁾ Cat. No. 5093												
carrier Cat. No. 5092												
Cat. No.	5128	5120	5136	5122	5124	5125	5126	1791	5137	5138	5137	
boring Ø x L in mm	12.8x45	12.8x82	17.5 x 60.7	25.5x82	35.5x82.5	45.5x85	42x85	66x103	13.5x60.7	12.8x54.5	13.5x60.7	
tubes per rotor	48		32	16	4				32	48	32	
max. RCF ²⁾	3,005		2,952	2,898	2,952	2,952		3,095	2,952	2,540	2,952	
radius in mm	168		165	162	165	165		173	165	142	165	
run-up in sec	42											
run-down in sec, braked	51											
temperature in °C ¹⁾	-3											

capacity in ml	2.6–3.4	2.7–3	2.7–3	4–5.5	4.5–5	4.9	7.5–8.5	9–10	10	1.6–5	1.6–5	4–7
Ø x L in mm	13x65	11x66	11x66	15x75	11x92	13x90	15x92	16x92	15x102	13x75	13x75	13x100
Cat. No.	blood collection / urine tubes											
lid with bio-containment ⁵⁾ Cat. No. 5093												
carrier Cat. No. 5092												
Cat. No.	5138	5137	5138	5136	5120	5137	5136		5137	5138	5120	
boring Ø x L in mm	12.8x54.5	13.5x60.7	12.8x54.5	17.5x60.7	12.8x82	13.5x60.7	17.5x60.7		13.5x60.7	12.8x54.5	12.8x82	
tubes per rotor	48	32	48	32	48	32		32	48	32		
max. RCF ²⁾	2,540	2,952	2,540	2,952	3,005	2,952		2,952	2,540	3,005		
radius in mm	142	165	142	165	168	165		165	142	168		
run-up in sec	42											
run-down in sec, braked	51											
temperature in °C ¹⁾	-3											

⁵⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

¹⁸⁾ With Cat. No. 5247-91 or 5248-91 these adapters can also be ordered with a decanting aid.

ROTORS

Swing-out rotor 5694



illustrated with carriers 5092

capacity in ml	4–7	8	8.5–10	15	50	12	25	30	50	10	250	290
Ø x L in mm	16x75	16 x 125	16x100	17x120	29x115	17x100	25x90	25x110	29x115	16x80	61x122	62x137
Cat. No.	blood collection tubes			0509	0513	-					5127 ^{2B)}	- ^{2B)}
lid with bio-containment ⁵⁾ Cat. No. 5093												
carrier Cat. No. 5092												
Cat. No.	5136	5121 ⁴⁾	5136	5129	5123	5121	5134	5122	5135	5136	6319	
boring Ø x L in mm	17.5x60.7	17.5x82	17.5x60.7	17x85	30x85	17.5x82	26x73	25.5x82	30x99	17.5x60.7	66x103	
tubes per rotor	32	28	32	28	8	28	12	16	8	32	4	
max. RCF ²⁾	2,952	3,059	2,952	3,095		3,005	2,826	2,898	3,023	2,952	3,095	
radius in mm	165	171	165	173		168	158	162	169	165	173	
run-up in sec												42
run-down in sec, braked												51
temperature in °C ¹⁾												-3

1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000.
 3) When using these tubes, carrier 1560 cannot be closed with lid 1561.
 4) Please remove the inserts.

Swing-out rotor, 6-place



illustrated with carriers 5051

∠ 90° n = 4,000 min⁻¹ max. RCF 3,631

Cat. No. (without carriers) 4446

capacity in ml	1.5	2.0	1.5	2.0	3	5	6	7	9	15	25	50	100	100	1.1–1.4	2.6–3.4	2.7–3
Ø x L in mm	11x38		11x38		10x60	12x75	12x82	12x100	14x100	17x100	24x100	34x100	44x100	40x115	8x66	13x65	11x66
Cat. No.	-	-	2078	0536	-	0553²⁾	0501²⁾	0578²⁾	0500²⁾	0518²⁾	0519²⁾	0521²⁾	0526²⁾	0523²⁾	blood / urine tubes		
lid Cat. No. 5053																	
carrier Cat. No. 5051																	
Cat. No.	5257	5281	5267	5227	5247¹⁸⁾	5264	5248¹⁸⁾	5242	5243	5262	5249	5267	5268	5227			
boring Ø x L in mm	12.5x42	11.5x50	11x44	12.5x42	12.5x86	16x50	17.5x86	26x86	36x86	45.5x86	42x86	11x44	13.5x52	12.5x42			
tubes per rotor	240	96	120	120	120	72	72	30	12	6	6	120	72	120			
max. RCF ²⁾ upper / lower	2,486/3,363	3,363	3,274	3,309	3,291	3,309			3,291			3,274	3,345	3,309			
radius in mm upper / lower	139/188	188	183	185	184	185			184			183	187	185			
run-up in sec										45							
run-down in sec, braked										55							
temperature in °C ¹⁾										0							

capacity in ml	4–5.5	4.5–5	4.9	7.5–8.5	9–10	10	1.6–5	4–7	4–7	8.5–10	15	50	12	30	50	two-tier frame for cyto accessories	
Ø x L in mm	15x75	11x92	13x90	15x92	16x92	15x102	13x75	16x75	13x100	16x100	17x120	29x115	17x100	25x110	29x115		
Cat. No.	blood collection / urine tubes											0509	0513	-	-	cyto chambers	
lid Cat. No. 5053																	
carrier Cat. No. 5051																	
Cat. No.	5264	5227	5268	5264	5258	5268	5264	5268	5248	6306	5259	6306	5266	5243	5280		
boring Ø x L in mm	16x50	12.5x42	13.5x52	16x50	17.6x86	13.5x52	16x50	13.5x52	17.5x86	17x90	30x86	17x90	26x86	36x86	-		
tubes per rotor	72	120	72	72	66			72		42	12	42	30	12	12		
max. RCF ²⁾ upper / lower	3,309	3,309	3,345	3,309	3,291	3,345	3,309	3,345	3,291	3,434	3,363	3,434	3,291	3,291	2,290/3,291		
radius in mm upper / lower	185	185	187	185	184	187	185	187	184	192	188	192	184	184	128/184		
run-up in sec										45							
run-down in sec, braked										55							
temperature in °C ¹⁾										0							

⁵⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

¹⁸⁾ With Cat. No. 5247-91 or 5248-91 these adapters can also be ordered with a decanting aid.

²⁸⁾ At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

ROTORS

Swing-out rotor 4446



illustrated with carriers 5092 and lids 5093 with bio-containment⁵⁾

capacity in ml	5	6	7	15	25	50	100	100	250	1.1–1.4	1.1–1.4	2.6–3.4
Ø x L in mm	12x75	12x82	12x100	17x100	24x100	34x100	44x100	40x115	65x115	8x66	8x66	13x65
Cat. No.	0553²⁾	0501²⁾	0578²⁾	0518²⁾	0519²⁾	0521²⁾	0526²⁾	0523²⁾	0530²⁾	blood collection tubes		
lid with bio-containment ⁵⁾ Cat. No. 5093												
carrier Cat. No. 5092												
Cat. No.	5128	5120	5136	5122	5124	5125	5126	1791	5137	5138	5137	
boring Ø x L in mm	12.8x45	12.8x82	17.5 x 60.7	25.5x82	35.5x82.5	45.5x85	42x85	66x103	13.5x60.7	12.8x54.5	13.5x60.7	
tubes per rotor	72		48	24	6			6	48	72	48	
max. RCF ²⁾	3,542		3,488	3,434	3,488			3,631	3,488	3,077	3,488	
radius in mm	198		195	192	195			203	195	172	195	
run-up in sec	45											
run-down in sec, braked	55											
temperature in °C ¹⁾	0											

capacity in ml	2.6–3.4	2.7–3	2.7–3	4.9	4–5.5	4.5–5	7.5–8.5	9–10	10	1.6–5	1.6–5	4–7
Ø x L in mm	13x65	11x66	11x66	13x90	15x75	11x92	15x92	16x92	15x102	13x75	13x75	13x100
Cat. No.	blood collection / urine tubes											
lid with bio-containment ⁵⁾ Cat. No. 5093												
carrier Cat. No. 5092												
Cat. No.	5138	5137	5138	5137	5136	5120	5136	5136	5137	5138	5138	5120
boring Ø x L in mm	12.8x54.5	13.5x60.7	12.8x54.5	13.5x60.7	17.5x60.7	12.8x82	17.5x60.7	17.5x60.7	13.5x60.7	12.8x54.5	12.8x82	
tubes per rotor	72	48	72	48	72	48			72	72		
max. RCF ²⁾	3,077	3,488	3,077	3,488	3,542	3,488			3,077	3,542		
radius in mm	172	195	172	195	198	195			172	198		
run-up in sec	45											
run-down in sec, braked	55											
temperature in °C ¹⁾	0											

¹⁾ Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.

²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000.

³⁾ When using these tubes, carrier 1560 cannot be closed with lid 1561.

Swing-out rotor 4446

capacity in ml	4-7	8	8.5-10	15	50	12	25	30	50	10	250	290
Ø x L in mm	16x75	16x125	16x100	17x120	29x115	17x100	25x90	25x110	29x115	16x80	61x122	62x137
Cat. No.	blood collection tubes			0509	0513	-	-	-	-	-	5127^{2B)}	-^{2B)}
lid with bio-containment ⁵⁾ Cat. No. 5093												
carrier Cat. No. 5092												
Cat. No.	5136	5121	5136	5129	5123	5121	5134	5122	5135	5136	6319	
boring Ø x L in mm	17.5x60.7	17.5x82	17.5x60.7	17x85	30x85	17.5x82	26x73	25.5x82	30x99	17.5x60.7	66x103	
tubes per rotor	48	42	48	42	12	42	18	24	12	48	6	
max. RCF ²⁾	3,488	3,542	3,488	3,631		3,542	3,363	3,434	3,560	3,488	3,631	
radius in mm	195	198	195	203		198	188	192	199	195	203	
run-up in sec							45					
run-down in sec, braked							55					
temperature in °C ¹⁾							0					

⁵⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

^{2B)} At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

ROTORS

Swing-out rotor, 2 -place



illustrated with carriers 5631 and lids 4627 with bio-containment⁵⁾ and removal frame 4626

∠ 90° n = 5,900 / 6,200 min⁻¹
Cat. No. (without carriers) **5622**

max. RCF 5,838 / 6,446

D x W x H in mm	86x128x15	86x128x17.5	86x128x22	86x128x44.5	86x128x46	86x128x83	59x84x11	82x124x20	-
capacity in ml									0.2
Cat. No.	MTP		CP	DWP	MS	QP	Microtest plate (Terasaki)	PCR plate, 96 wells	PCR strips
lid with bio-containment ⁵⁾ Cat. No. 4627									
carrier Cat. No. 5631									
Cat. No.	4626							4626 + 1485	
boring Ø x L in mm									-
plates / strips per rotor	12	10	8	2		4	2	24x8	
max. RCF ²⁾ classic/ cooled					5,838/ 6,446				
radius in mm					max. 150				
run-up in sec classic/ cooled					50/ 52				
run-down in sec, braked classic/ cooled					32/ 39				
temperature in °C ¹⁾					+12				

¹⁾ Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.

²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000.

⁵⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

Angle rotor, 30-place



with bio-containment⁵⁾,
phenol-resistant

∠ 45° n = 15,000 min⁻¹ max. RCF 24,400
Cat. No. 4489-A

Angle rotor, 6-place



with bio-containment⁵⁾

∠ 25° n = 8,500 / 9,500 min⁻¹ max. RCF 11,228 / 14,025
Cat. No. 5645

capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0	0.5
Ø x L in mm	6x18	6x45	8x30	8x45	11x38		10.7x36
Cat. No.	-			2078	0536	Pediatric	
lid with bio-containment ⁵⁾ incl.							
Rotor Cat. No. 4489-A							
Cat. No.	2024	2023	2031⁷⁾	-	0788		
boring Ø x L in mm	6x40	8x40	10.2x19	11.2x40.1	11.2x40.1		
tubes per rotor	30			15			15
max. RCF ²⁾	24,400			23,394			23,394
radius in mm	97			93			93
run-up in sec	73						
run-down in sec, braked	77						
temperature in °C ¹⁾	+7						

capacity in ml	15	25	94	15	50	10	30	50	85	94	250
Ø x L in mm	17x100	24x100	38x102	17x120	29x115	16x80	26x95	29x107	38x106	38x102	61x122
Cat. No.	0518²⁾	0519²⁾	0549	0509	0513	-	0545	0546	0547	0538¹³⁾	5127²⁸⁾
lid with bio-containment ⁵⁾ incl.											
Rotor Cat. No. 5645											
Cat. No.	5646	5642	5644	5637	5638	5641	5642	5643	5644		-
boring Ø x L in mm	17.6 x 83	26 x 80	38.6 x 88	17 x 106	30 x 100	16.6 x 70	26 x 80	29 x 90	38.6 x 88		61.5 x 109
tubes per rotor	42	18	6	30	6	48	18	6			
max. RCF ²⁾ classic/coolled	10,662/13,319	10,339/12,915	9,855/12,310	10,339 / 12,915	9,693 / 12,108	10,743/13,420	10,339/12,915	9,693/12,108	9,855/12,310		11,228/14,025
radius in mm	132	128	122	128	120	133	128	120	122		139
run-up in sec classic/coolled	98/115										
run-down in sec, braked classic/coolled	105/120										
temperature in °C ¹⁾	+4										

⁷⁾ For centrifugation at high speeds, we recommend to use form-fitting, phenol-resistant adapters 2031.

¹³⁾ The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 110 mm.

²⁸⁾ At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

ROTORS

Angle rotor, 6 -place



with bio-containment⁵⁾

∠ 45° n = 11,500 min⁻¹ max. RCF 18,038
Cat. No. 5615

Angle rotor, 6-place, for Schlenk tubes



∠ 45° n = 2,000 min⁻¹ max. RCF 805
Cat. No. 5616³⁴⁾

capacity in ml	0.5	1.5	2.0	3	15	25	50	94	7.5–8.5	9–10	10	8.5–10	5	15	50
Ø x L in mm	10.7x36	11x38		10x60	17x100	24x100	34x100	38x102	15x92	16x92	15x102	16x100	17x59	17x120	29x115
Cat. No.	Pediatric	2078	0536	-	0518 ²⁾	0519 ²⁾	0521 ²⁾	0549	blood / urine tubes				-	0509	0513
lid with bio-containment ⁵⁾ incl.															
rotor Cat. No. 5615															
Cat. No.	1449				1451	1447	1463	-	1451				1476	1466	1454
boring Ø x L in mm	11.4x39				17.5x92	26x85	35x89	38.2x89.6	17.5x92				17x51	17x106	29.8x97
tubes per rotor	24				6										
max. RCF ²⁾	17,299				17,003	16,560	17,743	18,038	17,003				16,856	17,299	17,595
radius in mm	117				115	112	120	122	115				114	117	119
run-up in sec					66										
run-down in sec, braked					68										
temperature in °C ¹⁾					+4										

capacity in ml	10	30	50	85	94
Ø x L in mm	16x80	26x95	29x107	38x106	38x102
Cat. No.	-	0545	0546	0547	0538 ¹³⁾
lid with bio-containment ⁵⁾ incl.					
rotor Cat. No. 5615					
Cat. No.	1448	1447	1446	-	
boring Ø x L in mm	16.5x74	26x85	29x92	38.2x89.6	
tubes per rotor	12	6			
max. RCF ²⁾	17,003	16,560	17,299	18,038	
radius in mm	115	112	117	122	
run-up in sec	66				
run-down in sec, braked	68				
temperature in °C ¹⁾	+4				

capacity in ml	25	50
Ø x L in mm	24x146.5	38x148.5
Cat. No.	0532	0533
rotor Cat. No. 5616³⁴⁾		
Cat. No.	4317	-
boring Ø x L in mm	25x86	38.5x89.9
tubes per rotor	6	
max. RCF ²⁾	783	805
radius in mm	175	180
run-up in sec	17	
run-down in sec, braked	21	
temperature in °C ¹⁾	-14	

1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote²⁾ is 4,000.
 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

ROTORS

Swing-out rotor, 4-place,
for ASTM tubes + 50 ml Babcock bottles



∠ 90° n = 2,000 min⁻¹ max. RCF 984
Cat. No. (without carriers) 4474

Swing-out rotor, 6-place,
for chrome bath tubes



∠ 90° n = 2,000 min⁻¹ max. RCF 917
Cat. No. 4619³⁴⁾

capacity in ml	50	100	100	100	50
Ø x L in mm	45x130	58x161	44x168	37x200	36.5x185
Cat. No.	ASTM²⁾	ASTM 0528²⁾	ASTM²⁾	ASTM 0531²⁾	Babcock
carrier Cat. No. 4275					
rotor Cat. No. 4474					
Cat. No.	4278-A	0771	4277	4276-A	0703-A
boring Ø x L in mm	-				
tubes per rotor	4				
max. RCF ²⁾	984		961		912
radius in mm	220		215		204
run-up in sec	17				
run-down in sec, braked	20				
temperature in °C ¹⁾	-8				

capacity in ml	30
Ø x L in mm	24x151
Cat. No.	0529 / 0508⁶⁾
rotor Cat. No. 4619 ³⁴⁾	
Cat. No.	-
boring Ø x L in mm	-
tubes per rotor	6
max. RCF ²⁾	917
radius in mm	205
run-up in sec	17
run-down in sec, braked	21
temperature in °C ¹⁾	-11

⁶⁾ A rubber stopper for closing the tube is available under Cat. No. 0535. The tube may not be centrifuged with the stopper. The stopper only serves to close the tube for agitating or mixing.

¹³⁾ The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 110 mm.

³⁴⁾ In the heatable models 5660-50, 5660-51, 5660-70, 5670-50 and 5675-50, rotor 5616 may only be used up to a maximum of +40 °C.