

BENCHTOP CENTRIFUGES

— ROTANTA 460 | 460 R

THE CAPABILITY OF A BENCHTOP WITHOUT THE FOOTPRINT

This modified version of the standard ROTANTA 460 allows for space saving storage below the bench and frees valuable working space from bench top units.

Both units include refrigeration with a temperature range from -20 °C to +40 °C.



— HIGHLIGHTS

- RPM: 50 - 15,000 min⁻¹
Adjustable in steps of 10
- RCF: 50 - 24,400
Adjustable in steps of 1
- max. Capacity: 4 x 750 ml
- choice of 8 rotors
- Medical Device according to directive 93/42/EC
- 28 individual acceleration and deceleration stages
- easy operation with keypad and control knob
- 98 program storage memories
- model 460 R coolable from -20 bis +40 °C with pre-cooling function

— FEATURES

- metal housing and lid
- viewing port in the lid
- powered one-hand lid lock
- lid dropping protection
- emergency lid lock release
- stainless steel chamber
- automatic rotor recognition
- brushless drive
- error display
- display in °C and °F possible
- imbalance monitoring and switch-off
- backlit panel with actual values of all parameters
- auditory message after completion of the centrifugation run




TECHNICAL DATA

	ROTANTA 460 classic	ROTANTA 460 R cooled
voltage *)	220 – 240 V 1 ~	220 – 240 V 1 ~
frequency	50 – 60 Hz	50 – 60 Hz
consumption	1,000 VA	1,800 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	4 x 750 ml	4 x 750 ml
max. RPM	15,000 min ⁻¹	15,000 min ⁻¹
max. RCF	24,400	24,400
running time	1 sec – 99 h: 59 min: 59 s, ∞ continuous run, short cycle mode	1 sec – 99 h: 59 min: 59 s, ∞ continuous run, short cycle mode
dimensions (WxDxH)	554 x 706 x 456 mm	770 x 706 x 456 mm
weight	approx. 101 kg	approx. 141 kg
noise level	46 dB (A) with rotor 4474	58 dB (A) with rotor 4474
temperature control, infinitely variable	-	from -20 to +40 °C
Cat. No.	5650	5660
100 – 127 V 1 ~ / 50 – 60 Hz *)	5650-01	5660-01
consumption	1,100 VA	2,000 VA
emission, immunity	FCC class B	FCC class B
weight	approx. 111 kg	approx. 151 kg


*) Other voltages on request.

AVAILABLE ROTORS

SWING-OUT ROTORS

	angle	max. RPM	max. Capacity	Cat. No.	page
 swing-out rotor, 4-place	90°	4,600 min ⁻¹	4 x 750 ml	5699-R	3
 swing-out rotor, 4-place	90°	3,800 min ⁻¹	4 x 750 ml	5654	10
 swing-out rotor, 6-place	90°	4,000 min ⁻¹	6 x 290 ml	4446	12
 swing-out rotor, 4-place	90°	2,000 min ⁻¹	4 x 100 ml	4474	14
 swing-out rotor, 2-place	90°	5,900 min ⁻¹ / 6,200 min ⁻¹	12 plates	5622	14

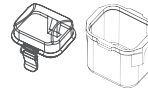
ANGLE ROTORS

 angle rotor, 30-place	45°	15,000 min ⁻¹	30 x 2 ml	4489-A	15
 angle rotor, 6-place	25°	8,500 min ⁻¹ / 9,500 min ⁻¹	6 x 250 ml	5645	15
 angle rotor, 6-place	35°	11,500 min ⁻¹	6 x 94 ml	5615	16

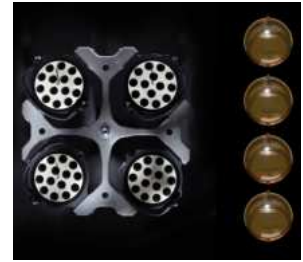
— SWING-OUT ROTOR, 4-PLACE | 5699-R



Rotor	
max. RPM max. RCF ²⁾	4,600 min ⁻¹ 5,063
max. capacity	4 x 250 ml
run-up run-down, braked in sec	90 95
angle	90°
temperature in °C ¹⁾	+10
Cat. No.	5699-R



Bucket	
lid bioseal ⁵⁾	5627
Cat. No.	5625-A



Vessels		<table border="1"> <tr> <td>Adapter</td> <td></td> </tr> <tr> <td>boring Ø x L in mm</td> <td>11 x 84 11 x 84 11 x 84 11 x 84 13.5 x 84 13.5 x 84 13.5 x 84 13.5 x 84 17.5 x 84 26.5 x 84 36 x 80 42 x 80 46 x 84 42 x 80 66 x 80</td> </tr> <tr> <td>vessels per rotor</td> <td>224 224 120 120 80 80 80 80 68 24 12 12 8 12 4</td> </tr> <tr> <td>Cat. No.</td> <td>4730 4730 4730 4730 4732 4732 4732 4732 4733 4734 4735 4736 4737 4736 4738</td> </tr> </table>	Adapter		boring Ø x L in mm	11 x 84 11 x 84 11 x 84 11 x 84 13.5 x 84 13.5 x 84 13.5 x 84 13.5 x 84 17.5 x 84 26.5 x 84 36 x 80 42 x 80 46 x 84 42 x 80 66 x 80	vessels per rotor	224 224 120 120 80 80 80 80 68 24 12 12 8 12 4	Cat. No.	4730 4730 4730 4730 4732 4732 4732 4732 4733 4734 4735 4736 4737 4736 4738
Adapter										
boring Ø x L in mm	11 x 84 11 x 84 11 x 84 11 x 84 13.5 x 84 13.5 x 84 13.5 x 84 13.5 x 84 17.5 x 84 26.5 x 84 36 x 80 42 x 80 46 x 84 42 x 80 66 x 80									
vessels per rotor	224 224 120 120 80 80 80 80 68 24 12 12 8 12 4									
Cat. No.	4730 4730 4730 4730 4732 4732 4732 4732 4733 4734 4735 4736 4737 4736 4738									

Vessels		
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 10 1.6–5 4–7 4–7 8.5–10 14 15	
Ø x L in mm	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 13 x 75 13 x 100 16 x 75 16 x 100 16.5 x 106 17 x 120	
max. RCF ²⁾	4,637 4,637 4,637 4,637 4,637 4,637 4,637 4,637 4,637 4,637 4,637 4,637 4,637 4,637 4,637	
radius in mm	196 196 196 196 196 196 196 196 196 196 196 196 196 196 196	
Cat. No.	blood collection / urine vessels	tubes with screw cap

Adapter	
boring Ø x L in mm	11 x 84 13.5 x 84 13.5 x 84 17.5 x 84 13.5 x 84 13.5 x 84 17.5 x 84 17.5 x 84 17.5 x 84 13.5 x 84 13.5 x 84 17.5 x 84 17.5 x 84 17 x 80 17 x 80
vessels per rotor	120 80 80 68 80 80 68 68 68 80 80 68 68 48 48
Cat. No.	4730 4732 4732 4733 4732 4732 4733 4733 4733 4732 4732 4733 4733 4739 4) 4739

Vessels	
capacity in ml	50 12 25 30 50 10 30 50 85 94
Ø x L in mm	29 x 115 17 x 100 25 x 90 25 x 110 29 x 115 16 x 80 26 x 95 29 x 107 38 x 106 38 x 102
max. RCF ²⁾	4,637 4,637 4,637 4,637 4,637 4,637 4,637 4,637 4,637 4,495
radius in mm	196 196 196 196 196 196 196 196 196 190
Cat. No.	tubes with screw cap

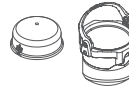
Adapter	
boring Ø x L in mm	30 x 80 17 x 80 26.5 x 84 26.5 x 84 30 x 80 17.5 x 84 26.5 x 84 30 x 80 42 x 80 42 x 80
vessels per rotor	20 48 24 24 20 68 24 20 12 12
Cat. No.	4740 4739 4) 4734 4734 4740 4733 4734 4740 4736 4736

1) For cooled versions: Lowest temperature achievable with precooling and max. 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) Please remove the spacer.
 4) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

SWING-OUT ROTOR, 4-PLACE | 5699-R



Rotor	
max. RPM max. RCF ²⁾	4,600 min ⁻¹ 4,779
max. capacity	4 x 750 ml
run-up run-down, braked in sec	90 95
angle	90°
temperature in °C ¹⁾	+7
Cat. No.	5699-R



Bucket	
lid bioseal ⁵⁾	4883
Cat. No.	4880



Vessels															
capacity in ml	1.5	2.0	3	4	4	5	6	7	15	25	45	50	94	100	100
Ø x L in mm	11 x 38	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	31 x 100	34 x 100	38 x 102	44 x 115	44 x 100
max. RCF ²⁾	3,572	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,495	4,495	4,495	4,495	4,637
radius in mm	151	196	196	196	196	196	196	196	196	196	190	190	190	190	196
Cat. No.	microliter tubes			tubes²⁾											

Adapter															
boring Ø x L in mm	11 x 84	11 x 84	11 x 84	11 x 84	13,5 x 84	13,5 x 84	13,5 x 84	13,5 x 84	17,5 x 84	26,5 x 84	36 x 80	36 x 80	42 x 80	42 x 80	46 x 84
vessels per rotor	192	192	96	96	76	76	76	76	76	76	16	16	8	8	8
Cat. No.	4830	4830	4830	4830	4832	4832	4832	4832	4833	4834	4835	4835	4836	4836	4837

Vessels															
capacity in ml	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	65 x 100	8 x 66	13 x 65	13 x 65	11 x 66	15 x 75	11 x 92	13 x 90	13 x 90	15 x 92	16 x 92	16 x 92	13 x 90	13 x 75	13 x 75
max. RCF ²⁾	4,495	4,637	4,116	4,637	4,637	4,637	4,637	4,637	4,684	4,637	4,684	4,637	4,637	4,116	4,637
radius in mm	190	196	174	196	196	196	196	196	198	196	198	196	196	174	196
Cat. No.	-²⁾	blood collection / urine vessels													

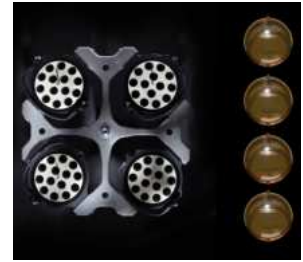
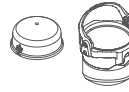
Adapter															
boring Ø x L in mm	66 x 80	11 x 84	13,2 x 61	13,5 x 84	13,5 x 84	17,5 x 84	13,5 x 84	13,5 x 84	13,2 x 61	17,5 x 84	17,5 x 61	17,5 x 84	17,5 x 84	13,2 x 61	13,5 x 84
vessels per rotor	4	96	108	76	76	76	76	76	108	76	88	76	76	108	76
Cat. No.	4838	4830	4847	4832	4832	4833	4832	4832	4847⁴⁾	4833	4848	4833	4833	4847	4832

Vessels															
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	13 x 100	13 x 100	16 x 75	16 x 75	16 x 125	16 x 100	16 x 100	17 x 59	16,5 x 106	17 x 120	29 x 115	29 x 115	17 x 100	25 x 90	25 x 110
max. RCF ²⁾	4,684	4,637	4,637	4,684	4,637	4,637	4,684	4,637	4,637	4,637	4,708	4,637	4,637	4,566	4,566
radius in mm	198	196	196	198	196	196	198	196	196	196	199	196	196	193	193
Cat. No.	blood collection / urine vessels								-	tubes with screw cap					

Adapter															
boring Ø x L in mm	13,2 x 61	13,5 x 84	17,5 x 84	17,5 x 61	17,5 x 84	17,5 x 84	17,5 x 61	17 x 80	17 x 80	17 x 80	30 x 96,5	30 x 80	17 x 80	26,5 x 84	26,5 x 84
vessels per rotor	108	76	76	88	76	76	88	56	56	56	28	20	56	28	28
Cat. No.	4847⁴⁾	4832	4833	4848	4833	4833	4848	4839	4839⁴⁾	4839	5647	4840	4839⁴⁾	4834	4834

1) For cooled versions: Lowest temperature achievable with precooling and max. 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 spacer.
 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

— SWING-OUT ROTOR, 4-PLACE | 5699-R



Rotor	
max. RPM max. RCF	4,600 min ⁻¹ 4,779
max. capacity	4 x 750 ml
run-up run-down, braked in sec	90 95
angle	90°
temperature in °C ¹⁾	+7
Cat. No.	5699-R



Bucket	
lid bioseal ⁵⁾	4883
Cat. No.	4880

Vessels																
capacity in ml	50	50	10	10	30	50	50	85	94	250	290	500	600	650	750	
Ø x L in mm	29 x 115	29 x 115	16 x 80	16 x 80	26 x 95	29 x 107	29 x 107	38 x 106	38 x 102	61 x 122	62 x 137	96 x 147	93 x 134	97 x 139	97 x 152	
max. RCF ²⁾	4,708	4,637	4,637	4,684	4,637	4,637	4,708	4,495	4,495	4,779	4,779	4,779	4,779	4,779	4,779	
radius in mm	199	196	196	198	196	196	199	190	190	202	202	202	202	202	202	
Cat. No.	tubes with screw cap										5127^{2,4)}	-^{2,4)}	Corning®	0551^{2,4)}	0554^{2,4)}	0512^{2,4)}



Adapter																
boring Ø x L in mm	30 x 96.5	30 x 80	17.5 x 84	17.5 x 61	26.5 x 84	30 x 80	30 x 96.5	42 x 80	42 x 80	62 x 100	62 x 100	98 x 100	94 x 95	98 x 100	98 x 100	
vessels per rotor	28	20	76	88	28	20	28	12	12	4	4	4	4	4	4	
Cat. No.	5647⁴⁾	4840⁴⁾	4833	4848	4834	4840⁴⁾	5647⁴⁾	4836	4836	4841	4841	4845	4846	4845	4845	

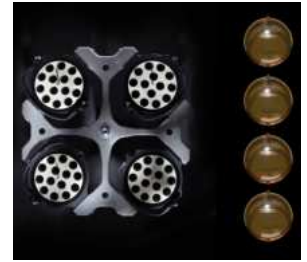
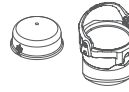
Vessels									
capacity in ml	450	750	30	50	40	160	200	200	200
Ø x L in mm	97 x 110	96 x 135	-	-	-	-	-	-	-
max. RCF ²⁾	4,779	4,779	4,613 ^{2,7)}	4,613 ^{2,7)}	4,613 ^{2,7)}	4,613 ^{2,7)}	4,613 ^{2,7)}	4,613 ^{2,7)}	4,613 ^{2,7)}
radius in mm	202	202	195	195	195	195	195	195	195
Cat. No.	4447	4234-A	Falcon®	Corning®	Nunc®	Nunc®	Falcon®	Greiner®	Nunc®



Adapter								
boring Ø x L in mm	98 x 100	98 x 100	-	-	-	-	-	-
vessels per rotor	4	4	8	8	4	8	4	4
Cat. No.	4845	4845	4849	4849	4852	4851	4831	4831

1) For cooled versions: Lowest temperature achievable with precooling and max. 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.
 3,8) When using these tubes, bucket 4880 cannot be closed with lid 4883.
 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.
 27) RCF values indicated refer only to rotor performance. The max. RCF for the accommodated cell culture flasks is 2,300.

SWING-OUT ROTOR, 4-PLACE | 5699-R



Rotor	
max. RPM max. RCF ²⁾	4,600 min ⁻¹ 5,063
max. capacity	4 x 750 ml
run-up run-down, braked in sec	90 95
angle	90°
temperature in °C ¹⁾	+7
Cat. No.	5699-R



Bucket	
lid bioseal ⁵⁾	4883
Cat. No.	4890

Vessels															
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	4.9
Ø x L in mm	11 x 38	11 x 38	12 x 75	12 x 100	16 x 81	14 x 100	17 x 100	24 x 100	34 x 100	44 x 100	13 x 65	11 x 66	15 x 75	11 x 92	13 x 90
max. RCF ²⁾	3,407 / 4,542	3,407 / 4,542	4,471	4,471	4,637	4,637	4,637	4,353	4,424	4,400	4,471	4,471	4,637	4,471	4,471
radius in mm	144 / 192	144 / 192	189	189	196	196	196	184	187	186	189	189	196	189	189
Cat. No.	microliter tubes			tubes²⁾						blood collection / urine vessels					

Adapter															
boring Ø x L in mm	11.5 x 38	11.5 x 38	13 x 58	13 x 58	17.5 x 53	17.5 x 53	17.5 x 53	26 x 72	36 x 79	45 x 78	13.5 x 58	13 x 58	17.5 x 53	13 x 58	13.5 x 58
vessels per rotor	168	168	120	120	76	76	76	28	16	8	84	120	76	120	84
Cat. No.	4432	4432	4433	4433	4434	4434	4434	4438	4439	4442	4435	4433	4434	4433	4435

Vessels															
capacity in ml	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	15 x 92	16 x 92	15 x 102	13 x 75	13 x 100	16 x 75	16 x 125	16 x 100	16 x 80	17 x 120	29 x 115	25 x 90	25 x 110	29 x 115	29 x 107
max. RCF ²⁾	4,637	4,637	4,637	4,471	4,471	4,637	4,637	4,637	4,637	4,755	4,613	4,566	4,566	4,613	4,613
radius in mm	196	196	196	189	189	196	196	196	196	201	195	193	193	195	195
Cat. No.	blood collection / urine vessels										tubes with screw cap				


Adapter															
boring Ø x L in mm	17.5 x 53	17.5 x 53	17.5 x 53	13.5 x 58	13.5 x 58	17.5 x 53	17.5 x 53	17.5 x 53	17.5 x 53	17 x 93.1	31 x 96	26 x 72	26 x 72	31 x 96	31 x 96
vessels per rotor	76	76	76	84	84	76	76	76	76	56	28	28	28	28	28
Cat. No.	4434	4434	4434	4435	4435	4434	4434	4434	4434	4469	4468	4438	4438	4468⁴⁾	4468

Vessels													
capacity in ml	250	290 ^{3,9)}	650	750	175	175	200	225	250	500	450	750	450
Ø x L in mm	61 x 122	62 x 137	97 x 139	97 x 152	61 x 118	62 x 144	60 x 130	61 x 137	60 x 162	96 x 147	97 x 110	96 x 135	3-place-system without filter
max. RCF ²⁾	4,873	4,873	4,873	4,873	5,063	5,063	5,063	5,063	5,063	5,063	5,063	5,063	5,063
radius in mm	206	206	206	206	214	214	214	214	214	214	214	214	214
Cat. No.	5127²⁴⁾	-²⁴⁾	0554²⁴⁾	0512²⁴⁾	Falcon[®]	Nalgene[®]	Nunc[®]	Falcon[®]	Corning[®]	Corning[®]	4447	4234-A	blood bags²⁸⁾

Adapter													
boring Ø x L in mm	62 x 92	62 x 92	98.4 x 116	98.4 x 116	-	-	-	-	-	-	98.4 x 116	98.4 x 116	-
vessels per rotor	8	6	4	4	8	8	8	8	4	4	4	4	4
Cat. No.	4443	4443	4451	4451	4440	4430	4430	4440	4430	4449	4451	4451	-

1) For cooled versions: Lowest temperature achievable with precooling and max. 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.
 3,9) When using these tubes, bucket 4890 cannot be closed with lid 4883.
 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.
 28) 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.

— SWING-OUT ROTOR, 4-PLACE | 5699-R







Rotor	
max. RPM max. RCF ²⁾	4,600 min ⁻¹ 4,637
max. capacity	4 x 450 ml
run-up run-down, braked in sec	90 95
angle	90°
temperature in °C ¹⁾	+10
Cat. No.	5699-R




Bucket	
Cat. No.	5691-A




	holder for systems without filter	holder for systems with and without filter
		
Blood bags		
capacity in ml	450	450
blood bag	3-place-System	4-place-System
max. RCF ²⁾	4,637	4,637
radius in mm	196	196
Cat. No.	5693	5695

Insert		
boring Ø x L in mm	-	-
blood bags per rotor	4	4
Cat. No.	5692	5692

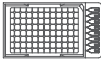
— SWING-OUT ROTOR, 4-PLACE | 5699-R




Rotor	
max. RPM max. RCF ²⁾	4,600 min ⁻¹ 4,921
max. capacity	12 Arrays
run-up run-down, braked in sec	90 95
angle	90°
temperature in °C ¹⁾	+10
Cat. No.	5699-R




Bucket	
Cat. No.	5636

Array	
capacity in ml	-
W x D x H in mm	152.5x85.5x12
max. RCF ²⁾	4,921
radius in mm	208
Cat. No.	-

Adapter	
boring Ø x L in mm	-
arrays per rotor	12
Cat. No.	5648

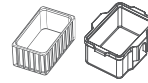
1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
 The max. RCF for glass tubes annotated with footnote 2) is 4,000.

— SWING-OUT ROTOR, 4-PLACE | 5699-R

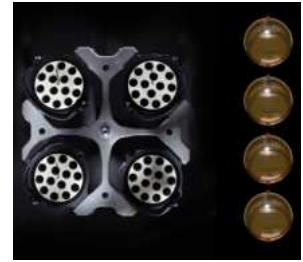


Rotor	
max. RPM max. RCF ²⁾	3,800 min ⁻¹ 4,258
max. capacity	4 x 250 ml
run-up run-down, braked in sec	90 95
angle	90°
temperature in °C ¹⁾	+10
Cat. No.	5699-R

Bucket with adapting frame
Cat. No.



5628⁹⁾



Vessels			
capacity in ml	1.5	2.0	3
Ø x L in mm	11 x 38	11 x 38	10 x 60
max. RCF ²⁾	4,164	4,164	4,069
radius in mm	176	176	172
Cat. No.	microliter tubes	tubes²⁾	blood collection / urine vessels
	+ 5220-A	+ 5220-A	+ 5220-A
Adapter			
boring Ø x L in mm	11.5 x 50	11.5 x 50	11 x 44
vessels per rotor	128	128	160
Cat. No.¹⁹⁾	5281	5281	5267

Vessels		
capacity in ml	4–5.5	4.5–5
Ø x L in mm	15 x 75	11 x 92
max. RCF ²⁾	4,116	4,116
radius in mm	174	174
Cat. No.	blood collection / urine vessels	tubes with screw cap
	+ 5220-A	+ 5220-A
Adapter		
boring Ø x L in mm	16 x 50	12.5 x 42
vessels per rotor	96	160
Cat. No.¹⁹⁾	5264	5227

Vessels	
capacity in ml	1–8
Ø x L in mm	simple / multiple
max. RCF ²⁾	2,744 / 4,069
radius in mm	116 / 172
Cat. No.	cyto chambers

Adapter	
boring Ø x L in mm	-
vessels per rotor	16
Cat. No.¹⁹⁾	5280

- 1) For cooled versions: Lowest temperature achievable with precooling and max. 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 spacer.
- 9) Max. permissible loading weight of carrier 5628: 800 g. The loading weight is the sum of the weight of the respective adapters, frames, the tubes and their contents.
- 19) Two adapters can be placed on each bucket.
- 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

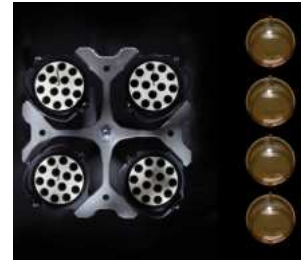
— SWING-OUT ROTOR, 4-PLACE | 5699-R



Rotor	
max. RPM max. RCF	4,600 min ⁻¹ 3,785
max. capacity	4x200 ml
run-up run-down, braked in sec	90 95
angle	90°
temperature in °C ¹⁾	+10
Cat. No.	5699-R



Bucket	
Cat. No.	5630-B



Vessels					
capacity in ml	40	160	200	200	200
Ø x L in mm	-	-	-	-	-
max. RCF ²⁾	3,785 ²⁾	3,785 ²⁾	3,785 ²⁾	3,785 ²⁾	3,785 ²⁾
radius in mm	160	160	160	160	160
Cat. No.	Nunc®	Nunc®	Falcon®	Greiner®	Nunc®

Accommodated cell culture flask:

40 ml
Nunc®, No. 156340 or 156367

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

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



Adapter					
boring Ø x L in mm	-	-	-	-	-
vessels per rotor	4	4	4	4	4
Cat. No.	5672	5673	5671	5671	5671

— SWING-OUT ROTOR, 4-PLACE | 5699-R



Rotor	
max. RPM max. RCF	4,600 min ⁻¹ 3,832
max. capacity	20 plates
run-up run-down, braked in sec	90 95
angle	90°
temperature in °C ¹⁾	+10
Cat. No.	5699-R



Bucket	
Cat. No.	5630-B



Plates									
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	84x59x11	124x82x20	-
capacity in ml	-	-	-	-	-	-	-	-	0.2
max. RCF ²⁾	3,832	3,832	3,832	3,832	3,832	3,832	3,832	3,832	3,832
radius in mm	max. 162	max. 162	max. 162	max. 162	max. 162	max. 162	max. 162	max. 162	max. 162
Cat. No.	MTP	MTP	CP	DWP	MS	QP	Microtest plate	PCR plate	PCR strips



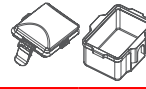
Removal frame									
boring Ø x L in mm	-	-	-	-	-	-	-	-	-
plates / strips per rotor	20	16	12	4	4	4	8	4	48 x 8
Cat. No.	4626	4626	4626	4626	4626	4626	4626	4626 + 1485	4626 + 1485

1) For cooled versions: Lowest temperature achievable with precooling and max. 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.

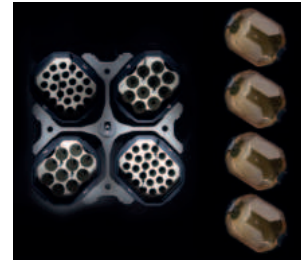
— SWING-OUT ROTOR, 4-PLACE | 5699-R



Rotor	
max. RPM max. RCF	4,600 min ⁻¹ 4,211
max. capacity	24 plates
run-up run-down, braked in sec	90 95
angle	90°
temperature in °C ¹⁾	+10
Cat. No.	5699-R



Bucket	
lid bioseal ⁵⁾	5629
Cat. No.	5628⁵⁾



Plates									
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	84x59x11	124x82x20	-
capacity in ml	-	-	-	-	-	-	-	-	0.2
max. RCF ²⁾	4,211	4,211	4,211	4,211	4,211	4,211	4,211	4,211	4,211
radius in mm	max. 178	max. 178	max. 178	max. 178	max. 178	max. 178	max. 178	max. 178	max. 178
Cat. No.	MTP	MTP	CP	DWP	MS	QP	Microtest plate	PCR plate	PCR strips

Removal frame									
boring Ø x L in mm	-	-	-	-	-	-	-	-	-
plates / strips per rotor	24	20	16	4	4	4	8	4	48 x 8
Cat. No.	4626	4626	4626	4626	4626	4626	4626	4626 + 1485	4626 + 1485

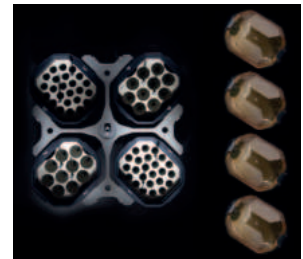
— SWING-OUT ROTOR, 4-PLACE | 5654



Rotor	
max. RPM max. RCF	3,800 min ⁻¹ 2,890
max. capacity	24 plates
run-up run-down, braked in sec	61 57
angle max. noise level	90° 57 dB (A)
temperature in °C ¹⁾	-4
Cat. No.	5654



Bucket	
lid bioseal ⁵⁾	5629
Cat. No.	5653



Plates									
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	84x59x11	124x82x20	-
capacity in ml	-	-	-	-	-	-	-	-	0.2
max. RCF ²⁾	2,890	2,890	2,890	2,890	2,890	2,890	2,890	2,890	2,890
radius in mm	max. 179	max. 179	max. 179	max. 179	max. 179	max. 179	max. 179	max. 179	max. 179
Cat. No.	MTP	MTP	CP	DWP	MS	QP	Microtest plate	PCR plate	PCR strips

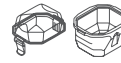
Removal frame									
boring Ø x L in mm	-	-	-	-	-	-	-	-	-
plates / strips per rotor	24	20	16	4	4	4	8	4	48 x 8
Cat. No.	4626	4626	4626	4626	4626	4626	4626	4626 + 1485	4626 + 1485

1) For cooled versions: Lowest temperature achievable with precooling and max. 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.

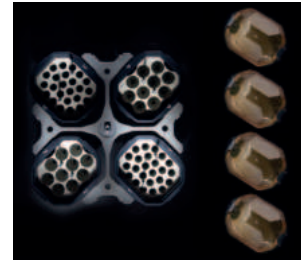
— SWING-OUT ROTOR, 4-PLACE | 5654



Rotor	
max. RPM max. RCF	3.800 min ⁻¹ 3.196
max. capacity	6 x 750 ml
run-up run-down, braked in sec	61 57
angle max. noise level	90° 58 dB (A)
temperature in °C ¹⁾	+3
Cat. No.	5654



Bucket	
lid bioseal ⁵⁾	5652
Cat. No.	5651-A



Vessels															
capacity in ml	3	4	4	5	6	7	10	10	15	1.1–1.4	2.6–3.4	2.7–3	4.5–5	4–5.5	4.9
Ø x L in mm	10 x 60	10 x 88	12 x 60	12 x 75	12 x 82	12 x 100	13 x 100	13 x 100	17 x 100	8 x 66	13 x 65	11 x 66	11 x 92	15 x 75	13 x 90
max. RCF ²⁾	2,874	2,874	2,874	2,874	2,874	2,874	2,906	2,906	2,970	2,874	2,906	2,874	2,874	2,970	2,906
radius in mm	178	178	178	178	178	178	180	180	184	178	180	178	178	184	180
Cat. No.	tubes²⁾								blood collection / urine vessels						

Adapter															
boring Ø x L in mm	12.5 x 40	12.5 x 40	12.5 x 40	12.5 x 40	12.5 x 40	12.5 x 40	13.2 x 42.4	13.2 x 42.4	17.2 x 46.5	12.5 x 40	13.2 x 42.4	12.5 x 40	12.5 x 40	17.2 x 46.5	13.2 x 42.4
vessels per rotor	292	292	292	292	292	292	196	188	148	292	196	292	292	148	196
Cat. No.	5684	5684	5684	5684	5684	5684	5674	5685	5682	5684	5674	5684	5684	5682	5674

Vessels															
capacity in ml	7.5–8.5	9–10	10	1.6–5	4–7	4–7	4–7	8.5–10	10	5	15	50	175	175	200
Ø x L in mm	15 x 92	16 x 92	15 x 102	13 x 75	16 x 75	13 x 100	13 x 100	16 x 100	16 x 80	17 x 59	17 x 120	29 x 115	61 x 118	62 x 144	60 x 130
max. RCF ²⁾	2,970	2,970	2,970	2,906	2,970	2,906	2,906	2,970	2,970	3,196	3,196	3,196	3,196	3,196	3,196
radius in mm	184	184	184	180	184	180	180	184	184	198	198	198	198	198	198
Cat. No.	blood collection / urine vessels									-	tubes with screw cap		Falcon[®]	Nalgene[®]	Nunc[®]

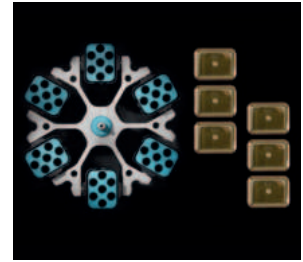
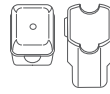
Adapter															
boring Ø x L in mm	17.2 x 46.5	17.2 x 46.5	17.2 x 46.5	13.2 x 42.4	17.2 x 46.5	13.2 x 42.4	13.2 x 42.4	17.2 x 46.5	17.2 x 46.5	17 x 42	17 x 60	30 x 60	62 x 100	62 x 100	62 x 100
vessels per rotor	148	148	148	196	148	196	188	148	148	80	96	40	8	8	8
Cat. No.	5682	5682	5682	5674	5682	5674	5685	5682	5682	5688	5683	5686	5681	5681	5681

Vessels								
capacity in ml	225	250	290	450	500	600	650	750
Ø x L in mm	61 x 137	61 x 122	62 x 137	97 x 110	96 x 147	93 x 134	97 x 139	97 x 152
max. RCF ²⁾	3,196	3,196	3,196	3,196	3,196	3,196	3,196	3,196
radius in mm	198	198	198	198	198	198	198	198
Cat. No.	Falcon[®]	5127²⁴⁾	-²⁴⁾	4447	Corning[®]	0551²⁴⁾	0554²⁴⁾	0512²⁴⁾

Adapter								
boring Ø x L in mm	62 x 100	62 x 100	62 x 100	98 x 100	98 x 100	98 x 100	98 x 100	98 x 100
vessels per rotor	8	8	8	4	4	4	4	4
Cat. No.	5681	5681	5681	5687	5687	5687	5687	5687

- 1) For cooled versions: Lowest temperature achievable with precooling and max. 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.
- 3.10) When using this tubes, bucket 5651-A cannot be closed with lid 5652.
- 5) Tested by TÜV in conformity with DIN EN 61010, section 2 - 020.
- 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

SWING-OUT ROTOR, 6-PLACE | 4446



Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 3,631
max. capacity	6 x 100 ml
run-up run-down, braked in sec.	45 55
angle max. noise level	90° 58 dB (A)
temperature in °C ¹⁾	-3
Cat. No.	4446

Bucket	
lid	5053
Cat. No.	5051

Vessels															
capacity in ml		1.5	2	1.5	2	3	5	6	7	9	15	25	50	100	100
Ø x L in mm		11 x 38	11 x 38	11 x 38	11 x 38	10 x 60	12 x 75	12 x 82	12 x 100	14 x 100	17 x 100	24 x 100	34 x 100	44 x 100	40 x 115
max. RCF ²⁾	top / bottom	2,486 / 3,363	2,486 / 3,363	3,363	3,363	3,274	3,309	3,309	3,291	3,309	3,291	3,291	3,291	3,291	3,291
radius in mm	top / bottom	139 / 188	139 / 188	188	188	183	185	185	184	185	184	184	184	184	184
Cat. No.		microliter tubes				tubes²⁾									

Adapter															
boring Ø x L in mm		12.5 x 42	12.5 x 42	11.5 x 50	11.5 x 50	11 x 44	12.5 x 42	12.5 x 42	12.5 x 86	16 x 50	17.5 x 86	26 x 86	36 x 86	45.5 x 86	42 x 86
vessels per rotor		240	240	96	96	120	120	120	120	72	72	30	12	6	6
Cat. No.		5257	5257	5281	5281	5267	5227	5227	5247¹⁵⁾	5264	5248¹⁵⁾	5242	5243	5262	5249

Vessels															
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	10	1.6–5	4–7	4–7	8.5–10	
Ø x L in mm		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	13 x 75	13 x 100	16 x 75	16 x 100	
max. RCF ²⁾		3,274	3,345	3,309	3,309	3,309	3,345	3,309	3,291	3,291	3,345	3,345	3,309	3,291	
radius in mm		183	187	185	185	185	187	185	184	184	187	187	185	184	
Cat. No.		blood collection / urine vessels													

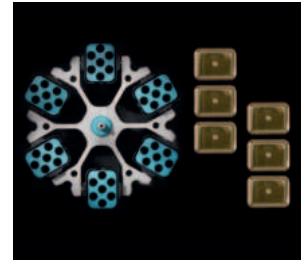
Adapter															
boring Ø x L in mm		11 x 44	13.5 x 52	12.5 x 42	16 x 50	12.5 x 42	13.5 x 52	16 x 50	17.6 x 86	17.6 x 86	13.5 x 52	13.5 x 52	16 x 50	17.5 x 86	
vessels per rotor		120	72	120	72	120	72	72	66	66	72	72	72	72	
Cat. No.		5267	5268	5227	5264	5227	5268	5264	5258	5258	5268	5268	5264	5248	

Vessels								
capacity in ml		15	30	50	12	30	50	1–8
Ø x L in mm		17 x 120	25 x 110	29 x 115	17 x 100	25 x 110	29 x 115	simple / multiple
max. RCF ²⁾	top / bottom	3,434	3,291	3,291	3,434	3,291	3,291	2,290 / 3,291
radius in mm	top / bottom	192	184	184	192	184	184	128 / 184
Cat. No.		tubes with screw cap						cyto chambers

Adapter								
boring Ø x L in mm		17 x 90	26 x 86	30 x 86	17 x 90	26 x 86	36 x 86	-
vessels per rotor		42	30	12	42	30	12	12
Cat. No.		6306	5266	5259	6306	5266	5243	5280

1) For cooled versions: Lowest temperature achievable with precooling and max. 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.
 3.11) When using these tubes, bucket 5051 cannot be closed with lid 5053.
 15) With Cat. No. 5247-91 or 5248-91 these adapters can also be ordered with a decanting aid.

— SWING-OUT ROTOR, 6-PLACE | 4446



Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 3,631
max. capacity	6 x 290 ml
run-up run-down, braked in sec	45 55
angle	90°
temperature in °C ¹⁾	-3
Cat. No.	4446

Bucket	
lid bioseal ⁵⁾	5053
Cat. No.	5092

Vessels																	
capacity in ml		5	6	7	15	25	50	100	100	250	1.1-1.4	1.1-1.4	2.6-3.4	2.6-3.4	2.7-3	2.7-3	
Ø x L in mm		12x75	12x82	12x100	17x100	24x100	34x100	44x100	40x115	65x115	8 x 66	8 x 66	13 x 65	13 x 65	11 x 66	11 x 66	
max. RCF ²⁾		3,542	3,542	3,542	3,488	3,434	3,488	3,488	3,488	3,631	3,488	3,488	3,488	3,077	3,488	3,077	
radius in mm		198	198	198	195	192	195	195	195	203	195	172	195	172	195	172	
Cat. No.		tubes²⁾								blood collection tubes / urine tubes							

Adapter																
boring Ø x L in mm		12.8x45	12.8x45	12.8x82	17.5x60.7	25.5x82	35.5x82.5	45.5x85	42x85	66x103	13.5x60.7	12.8x54.5	13.5x60.7	12.8x54.5	13.5x60.7	12.8x54.5
vessels per rotor		72	72	72	48	24	6	6	6	6	48	72	48	72	48	72
Cat. No.		5128	5128	5120	5136	5122	5124	5125	5126	1791	5137	5138	5137	5138	5137	5138

Vessels																
capacity in ml		4.9	4-5.5	4.5-5	7.5-8.5	9-10	10	1.6-5	1.6-5	4-7	4-7	8	8.5-10	10	15	30
Ø x L in mm		13x90	15x75	11x92	15x92	16x92	15x102	13x75	13x75	16x75	13x100	16x125	16x100	16 x 80	17x120	25 x 110
max. RCF ²⁾		3,488	3,488	3,542	3,488	3,488	3,488	3,488	3,077	3,542	3,488	3,542	3,488	3,488	3,631	3,434
radius in mm		195	195	198	195	195	195	195	172	198	195	198	195	195	203	192
Cat. No.		blood collection tubes / urine tubes											tubes with screw cap			

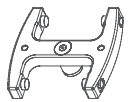
Adapter																
boring Ø x L in mm		13.5x60.7	17.5x60.7	12.8x82	17.5x60.7	17.5x60.7	13.5x60.7	12.8x54.5	12.8x82	12.8x60.7	17.5x82	17.5x60.7	17.5x60.7	17x85	25.5x82	
vessels per rotor		48	48	72	48	48	48	72	72	48	42	48	48	42	24	
Cat. No.		5137	5136	5120	5136	5136	5137	5138	5120	5136	5121	5136	5136	5129	5122	

Vessels								
capacity in ml		50	50	12	25	30	250	290
Ø x L in mm		29x115	29x115	17x100	25x90	25x110	61 x 122	62 x 137
max. RCF ²⁾		3,631	3,560	3,542	3,363	3,434	3,631	3,631
radius in mm		203	199	198	188	192	203	203
Cat. No.		tubes with screw cap					5127²⁴⁾	-²⁴⁾

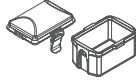
Adapter								
boring Ø x L in mm		30x85	30x99	17.5x82	26x73	25.5x82	66x103	66x103
vessels per rotor		12	12	42	18	24	6	6
Cat. No.		5123	5135	5121	5134	5122	6319	6319

- 1) For cooled versions: Lowest temperature achievable with precooling and max. 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.
- 3.5) When using these tubes, bucket 5092 cannot be closed with lid 5053.
- 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

— SWING-OUT ROTOR, 2-PLACE | 5622



Rotor	
max. RPM ROTANTA 460 460 R	5,900 min ⁻¹ 6,200 min ⁻¹
max. RCF	5,838 6,446
max. capacity	12 plates
run-up run-down, braked in sec	50 / 52 32 39
angle	90°
temperature in °C ¹⁾	+10
Cat. No.	5622




Bucket	
lid bioseal ⁵⁾	4627
Cat. No.	5631



Plates									
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	84x59x11	124x82x20	-
capacity in ml	-	-	-	-	-	-	-	-	0,2
max. RCF ²⁾ ROTANTA 460 460 R	5,838 6,446	5,838 6,446	5,838 6,446	5,838 6,446	5,838 6,446	5,838 6,446	5,838 6,446	5,838 6,446	5,838 6,446
radius in mm	150	150	150	150	150	150	150	150	150
Cat. No.	MTP	MTP	CP	DWP	MS	QP	Microtest plate	PCR plate 96 wells	PCR strips
+									
Removal frame									
boring Ø x L in mm	-	-	-	-	-	-	-	-	-
vessels per rotor	12	10	8	2	2	2	4	2	24 x 8
Cat. No.	4626	4626	4626	4626	4626	4626	4626	4626 + 1485	4626 + 1485

— SWING-OUT ROTOR, 4-PLACE | 4474



Rotor	
max. RPM max. RCF	2,000 min ⁻¹ 984
max. capacity	4 x 100 ml
run-up run-down, braked in sec	17 20
angle max. noise level	90° 46 dB (A)
temperature in °C ¹⁾	-8
Cat. No.	4474



Bucket	
Cat. No.	4275



Vessels					
capacity in ml	50	100	100	100	50
Ø x L in mm	45x130	58x161	44x168	37x200	36.5x185
max. RCF ²⁾	984	984	961	961	912
radius in mm	220	220	215	215	204
Cat. No.	ASTM 2.1)	ASTM 0528 2.1)	ASTM 2.1)	ASTM 0531 2.1)	Babcock
+					
Adapter					
boring Ø x L in mm	-	-	-	-	-
vessels per rotor	4	4	4	4	4
Cat. No.	4278-A	0771	4277	4276-B	0703-A

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
 2.1) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of vessels used should be verified with the individual manufacturers. The max. RCF for ASTM Tubes annotated with footnote 2) is 700.
 3.5) When using these tubes, bucket 5092 cannot be closed with lid 5053.
 4) Please remove the spacer.
 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

— ANGLE ROTOR, 30-PLACE | 4489-A



Rotor

max. RPM max. RCF	15,000 min ⁻¹ 24,400
max. capacity	30 x 2 ml
run-up run-down, braked in sec	73 77
angle max. noise level	45°
temperature in °C ¹⁾	+4

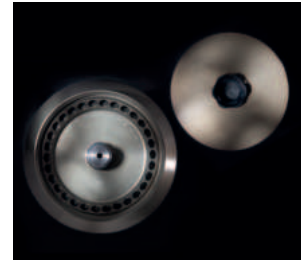
Cat. No. **4489-A**

Lid bioseal[®]
and phenol-resistant

Cat. No.



INCLUSIVE



Vessels

capacity in ml	0.2	0.4	0.5	0.8	1.5	2	0.5
Ø x L in mm	6x18	6x45	8x30	8x45	11x38	11x38	10.7x36
max. RCF ²⁾	24,400	24,400	24,400	24,400	24,400	24,400	23,394
radius in mm	97	97	97	97	97	97	93
Cat. No.	microliter tubes						Pediatric



Adapter

boring Ø x L in mm	6x40	6x40	8x40	8x40	-	11.2x40.1
vessels per rotor	30	30	30	30	30	15
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-

— ANGLE ROTOR, 6-PLACE | 5645



Rotor

max. RPM	ROTANTA 460 460 R	8,500 min ⁻¹ 9,500 min ⁻¹
max. RCF		11,228 14,025
max. capacity		6 x 250 ml
run-up run-down, braked in sec		98 / 115 105 / 120
angle max. noise level		25°
temperature in °C ¹⁾		+7

Cat. No. **5645**

Lid bioseal[®]

Cat. No.



INCLUSIVE



Vessels

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	38 x 106	38 x 102	61 x 122
max. RCF ²⁾	ROTANTA 460	10,662	10,339	9,855	10,339	9,693	10,743	10,339	9,693	9,855	11,228
max. RCF ²⁾	ROTANTA 460 R	13,319	12,915	12,310	12,915	12,108	13,420	12,915	12,108	12,310	14,025
radius in mm	132	128	122	128	120	133	128	120	122	122	139
Cat. No.	tubes²⁾			tubes with screw cap							5127²⁴⁾



Adapter

boring Ø x L in mm	17.6 x 83	26x80	38.6x88	17x106	30x100	16.6x70	26x80	29x90	38.6 x 88	38.6 x 88	61.5x109
vessels per rotor	42	18	6	30	6	48	18	6	6	6	6
Cat. No.	5646	5642	5644	5637	5638	5641	5642	5643	5644	5644	-

1) For cooled versions: Lowest temperature achievable with precooling and max. 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.

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

— ANGLE ROTOR, 6-PLACE | 5615



Rotor	
max. RPM max. RCF	11,500 min ⁻¹ 18,038
max. capacity	6 x 94 ml
run-up run-down, braked in sec	66 68
angle	45°
temperature in °C ¹⁾	+6
Cat. No.	5615

Lid bioseal⁵⁾	
Cat. No.	INCLUSIVE

Vessels															
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	11x38	10x60	17x100	24x100	34x100	38x102	15x92	16x92	15x102	16x100	17x59	17x120	29x115
max. RCF ²⁾	17,299	17,299	17,299	17,299	17,003	16,560	17,743	18,038	17,003	17,003	17,003	17,003	16,856	17,299	17,595
radius in mm	117	117	117	117	115	112	120	122	115	115	115	115	114	117	119
Cat. No.	Pediatric	microliter tubes			tubes²⁾				blood collection / urine tubes			-	tubes with screw cap		

Adapter															
boring Ø x L in mm	11.4x39	11.4x39	11.4x39	11.4x39	17.5x92	26x85	35x89	38.2x89.6	17.5x92	17.5x92	17.5x92	17.5x92	17x51	17x106	29.8x97
vessels per rotor	24	24	24	24	6	6	6	6	6	6	6	6	6	6	6
Cat. No.	1449	1449	1449	1449	1451	1447	1463	-	1451	1451	1451	1451	1476	1466	1454

Vessels					
capacity in ml	10	30	50	85	94
Ø x L in mm	16x80	26x95	29x107	38 x 106	38 x 102
max. RCF ²⁾	17,003	16,560	17,299	18,038	18,038
radius in mm	115	112	117	122	122
Cat. No.	tubes with screw cap				

Adapter					
boring Ø x L in mm	16.5x74	26x85	29x92	38.2x89.6	38.2x89.6
vessels per rotor	12	6	6	6	6
Cat. No.	1448	1447	1446	-	-

CERTIFICATES / REGISTRATIONS



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DIMENSIONS

