

FLOORSTANDING CENTRIFUGES

— ROTANTA 460 RC | 460 RF

THE CAPABILITY OF A BENCHTOP WITHOUT
THE FOOTPRINT

These modified versions of the standard ROTANTA 460 allow for space saving storage below the bench and free valuable working space normally taken by traditional 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 increments of 10
- RCF: 50 - 24,400
Adjustable in increments of 1
- Available as Floorstanding - and
under-bench version
- max. Capacity: 4 x 1,000 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 memories for more individuality
- model 460 R coolable from -20 to +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
- audio / visual indication after completion of
the centrifugation run

TECHNICAL DATA

	ROTANTA 460 RC cooled	ROTANTA 460 RF cooled
voltage *)	200 – 240 V 1 ~	200 – 240 V 1 ~
frequency	50 Hz	50 Hz
consumption	1,800 VA	1,800 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	4 x 1,000 ml	4 x 1,000 ml
max. RPM	15,000 min ⁻¹	15,000 min ⁻¹
max. RCF	24,400	24,400
running time	1 – 99 h: 59 min: 59 s, ∞ continuous run, short cycle mode	1 – 99 h: 59 min: 59 s, ∞ continuous run, short cycle mode
dimensions (WxDxH)	554x697x683 mm	554x697x961 mm
weight	approx. 140 kg	approx. 164 kg
noise level	60 dB (A) with rotor 4474	60 dB (A) with rotor 4474
temperature control, infinitely variable	from -20 to +40 °C	from -20 to +40 °C
Cat. No.	5670	5675
100 – 127 V 1 ~ / 60 Hz ¹⁾	-	5675-01
emission, immunity	-	FCC class B
weight	-	approx. 174 kg

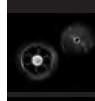
*) Other voltages on request.

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 1,000 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	
capacity in ml	1.5 2.0 3 4 4 5 6 7 15 25 50 94 100 100 250
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 34 x 100 38 x 102 44 x 100 40 x 115 65 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 4,637 4,495 4,495
radius in mm	151 196 196 196 196 196 196 196 196 196 190 190 196 190 190
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 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 68 80 80 68 68 48 48
Cat. No.	4730 4732 4732 4733 4732 4732 4733 4733 4733 4732 4732 4733 4733 4739⁴⁾ 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 4739⁴⁾ 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.
- 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



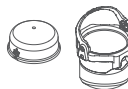
Rotor

max. RPM max. RCF 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			tubes³⁾											



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	4832	4833	4834	4835	4835	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.

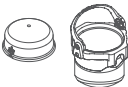
4) Please remove the spacer.

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

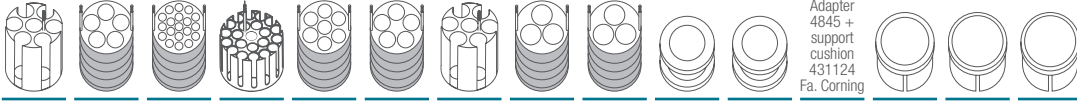


	
Bucket	
lid bioseal ⁵⁾	4883
Cat. No.	4880



	
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 ²⁴⁾ 5128 ²⁴⁾ 5129 ²⁴⁾ 5130 ²⁴⁾ 5131 ²⁴⁾ 5132 ²⁴⁾ 5133 ²⁴⁾ 5134 ²⁴⁾ 5135 ²⁴⁾ 5136 ²⁴⁾ 5137 ²⁴⁾ 5138 ²⁴⁾ 5139 ²⁴⁾ 5140 ²⁴⁾



	
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.	5647 ⁴⁾ 4840 ⁴⁾ 4833 4848 4834 4840 ⁴⁾ 5647 ⁴⁾ 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 ²⁷⁾ 4,613 ²⁷⁾ 4,613 ²⁷⁾ 4,613 ²⁷⁾ 4,613 ²⁷⁾ 4,613 ²⁷⁾ 4,613 ²⁷⁾
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 4
Cat. No.	4845 4845 4849 4849 4852 4851 4831 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



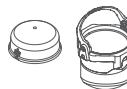
Rotor

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 ^{3,9)}	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

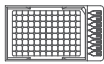
SWING-OUT ROTOR, 4-PLACE | 5699-R

	
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



	TaqMan Array
	
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.	-

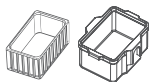


	
Adapter	
boring Ø x L in mm	-
arrays per rotor	12
Cat. No.	5648

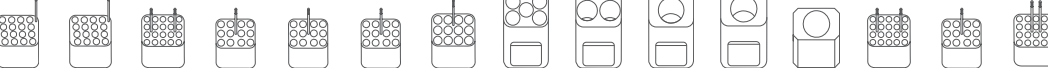
- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with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

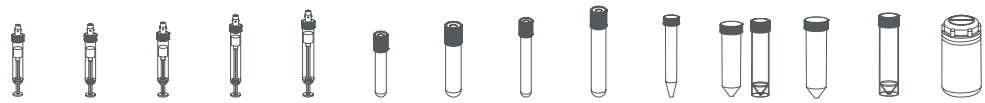
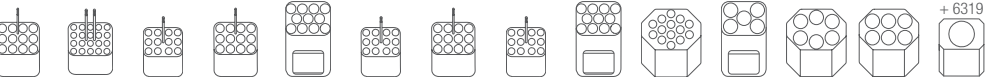
SWING-OUT ROTOR, 4-PLACE | 5699-R

	
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 5 6 7 9 25 50 100 100 250 1.1–1.4 2.6–3.4 2.7–3
Ø x L in mm	11 x 38 11 x 38 10 x 60 12 x 75 12 x 82 12 x 100 14 x 100 24 x 100 34 x 100 44 x 100 44 x 115 65 x 115 8 x 66 13 x 65 11 x 66
max. RCF ²⁾	4,164 4,164 4,069 4,164 4,164 4,164 4,116 4,093 4,093 4,069 4,069 4,045 4,069 4,164 4,116
radius in mm	176 176 172 176 176 176 174 173 173 172 172 171 172 176 174
Cat. No.	microliter tubes tubes²⁾ blood collection / urine vessels
	+ 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A
	
Adapter	
boring Ø x L in mm	11.5 x 50 11.5 x 50 11 x 44 13.5 x 52 13.5 x 52 13.5 x 52 16 x 50 26 x 86 36 x 86 45.5 x 86 42 x 86 66 x 87 11 x 44 13.5 x 52 12.5 x 42
vessels per rotor	128 128 160 96 96 96 96 40 16 8 8 4 160 96 160
Cat. No.¹⁹⁾	5281 5281 5267 5268 5268 5268 5264 5242 5243 5262 5249 5263-A 5267 5268 5227

	
Vessels	
capacity in ml	4–5.5 4.5–5 4.9 7.5–8.5 9–10 1.6–5 4–7 4–7 8.5–10 15 30 50 50 250
Ø x L in mm	15 x 75 11 x 92 13 x 90 15 x 92 16 x 92 13 x 75 16 x 75 13 x 100 16 x 100 17 x 120 25 x 110 29 x 115 29 x 115 61 x 122
max. RCF ²⁾	4,116 4,116 4,164 4,116 4,093 4,164 4,116 4,164 4,093 4,258 4,187 4,258 4,187 3,196
radius in mm	174 174 176 174 173 176 174 176 173 180 177 180 177 177
Cat. No.	blood collection / urine vessels tubes with screw cap 5127²⁴⁾
	+ 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A + 5220-A
	
Adapter	
boring Ø x L in mm	16 x 50 12.5 x 42 13.5 x 52 16 x 50 17.6 x 86 13.5 x 52 16 x 50 13.5 x 52 17.7 x 86 17 x 90 26 x 86 30 x 90 30 x 87 66 x 87
vessels per rotor	96 160 96 96 88 96 96 96 88 56 40 24 24 4
Cat. No.¹⁹⁾	5264 5227 5268 5264 5258 5268 5264 5268 5258 6337-B 5266⁴⁾ 6338-B 6339-A 5263-A⁴⁾

	
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

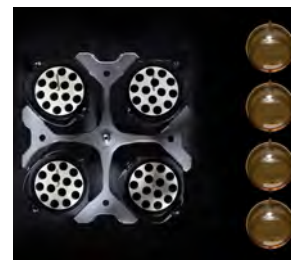
- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with 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	4 x 200 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®
	
Adapter	
boring Ø x L in mm	- - - - -
vessels per rotor	4 4 4 4 4
Cat. No.	5672 5673 5671 5671 5671

Accommodated cell culture flask:

40 ml
Nunc®, No. 156340 or 156367

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

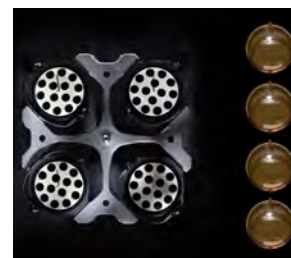
200ml
Becton Dickinson®, No. 353024
Greiner®, No. 658170
Nunc®, No. 153732 or 147589

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

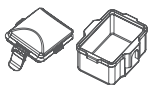
1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

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

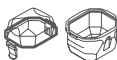
1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

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	4 x 1,000 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



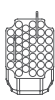
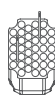
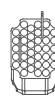
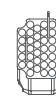
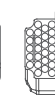
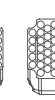
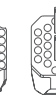
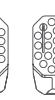
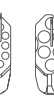
	
Bucket	
lid bioseal ⁵⁾	5652
Cat. No.	5651-A

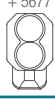
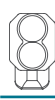
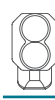


																
Vessels																
capacity in ml	3	4	4	5	6	7	10	10	15	1.1–1.4	2.6–3.4	2.7–3	4.5–5	4–5.5	4.9	
Ø x L in mm	10 x 60	10 x 88	12 x 60	12x75	12x82	12x100	13x100	13x100	17x100	8 x 66	13 x 65	11x66	11x92	15x75	13x90	
max. RCF ²⁾	2,874	2,874	2,874	2,874	2,874	2,874	2,906	2,906	2,970	2,874	2,906	2,874	2,874	2,970	2,906	
radius in mm	178	178	178	178	178	178	180	180	184	178	180	178	178	184	180	
Cat. No.	tubes ²⁾									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	1,000	
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	87 x 140	
max. RCF ²⁾		3,196	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	198	
Cat. No.		Falcon®	5127 ²⁴⁾	- ²⁴⁾	4447	Corning®	0551 ²⁴⁾	0554 ²⁴⁾	0512 ²⁴⁾	-	
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	98 x 100	98 x 100
vessels per rotor		8	8	8	4	4	4	4	4	4	1
Cat. No.		5681	5681	5681	5687	5687	5687	5687	5687	5687	5669

- 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



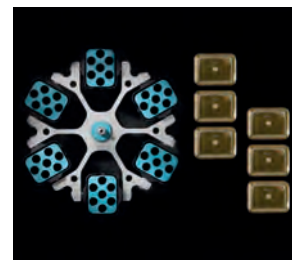
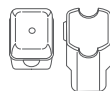
Rotor

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⁾	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	139 / 188	139 / 188	188	188	183	185	185	184	185	184	184	184	184	184

Adapter

Cat. No.	microliter tubes				tubes ³⁾									
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	5247 ¹⁵⁾	5264	5248 ¹⁵⁾	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

Adapter

	            												
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⁾	3,434	3,291	3,291	3,434	3,291	3,291	2,290 / 3,291
radius in mm	192	184	184	192	184	184	128 / 184

Adapter

Cat. No.	tubes with screw cap						cyto chambers
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



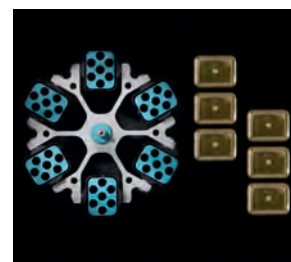
Rotor

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	3,077	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	17 x 120	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	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	48	72	72	48	42	48	48	42	24
Cat. No.	5137	5136	5120	5136	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)

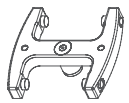


Adapter

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⁾	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	45 x 130	58 x 161	44 x 168	37 x 200	36.5 x 185
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.

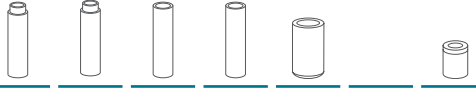
24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

ANGLE ROTOR, 30-PLACE | 4489-A

		+ 	
Rotor		Lid bioseal⁹⁾ and phenol-resistant	
max. RPM max. RCF	15,000 min ⁻¹ 24,400	Cat. No.	INCLUSIVE
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		



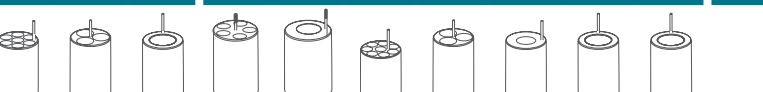
	
Vessels	
capacity in ml	0.2 0.4 0.5 0.8 1.5 2 0.5
Ø x L in mm	6x18 6x45 8x30 8x45 11x38 11x38 10.7x36
max. RCF ²⁾	24,400 24,400 24,400 24,400 24,400 24,400 23,394
radius in mm	97 97 97 97 97 97 93
Cat. No.	microliter tubes Pediatric

+ 	
Adapter	
boring Ø x L in mm	6x40 6x40 8x40 8x40 - 11.2x40.1 11.2x40.1
vessels per rotor	30 30 30 30 30 30 15
Cat. No.	2024 2024 2023 2023 2031⁷⁾ - 0788

ANGLE ROTOR, 6-PLACE | 5645

		+ 	
Rotor		Lid bioseal⁹⁾	
max. RPM ROTANTA 460 460 R	8,500 min ⁻¹ 9,500 min ⁻¹	Cat. No.	INCLUSIVE
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		



	
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 61x122
max. RCF ²⁾ ROTANTA 460	10,662 10,339 9,855 10,339 9,693 10,743 10,339 9,693 9,855 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 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	10.7 x 36	11 x 38	11 x 38	10 x 60	17 x 100	24 x 100	34 x 100	38 x 102	15 x 92	16 x 92	15 x 102	16 x 100	17 x 59	17 x 120	29 x 115	
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	11.4 x 39	11.4 x 39	11.4 x 39	11.4 x 39	17.5 x 92	26 x 85	35 x 89	38.2 x 89.6	17.5 x 92	17.5 x 92	17.5 x 92	17.5 x 92	17 x 51	17 x 106	29.8 x 97	
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	16 x 80	26 x 95	29 x 107	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	16.5 x 74	26 x 85	29 x 92	38.2 x 89.6	38.2 x 89.6
vessels per rotor	12	6	6	6	6
Cat. No.	1448	1447	1446	-	-

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

CERTIFICATES / REGISTRATIONS

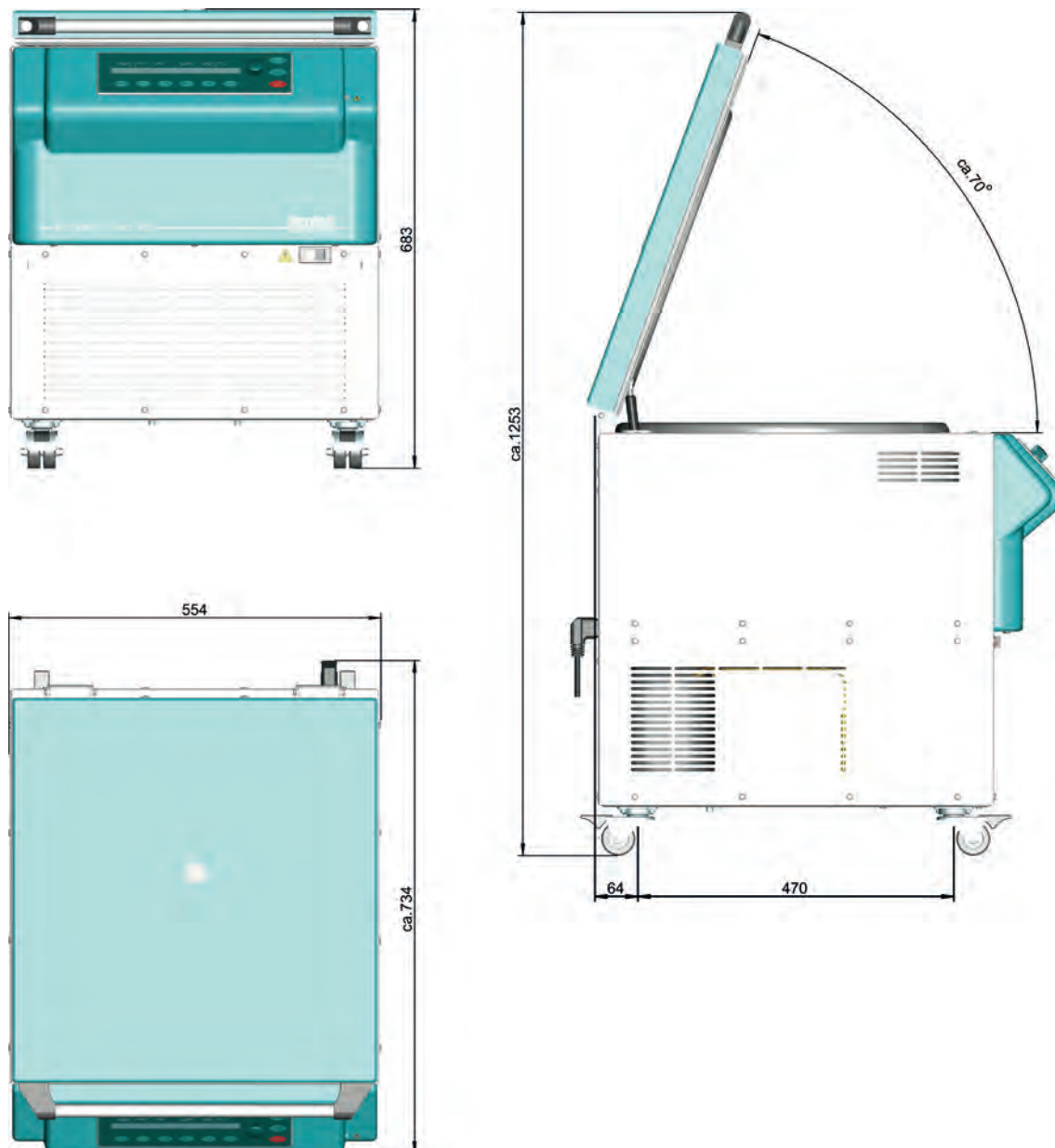

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