

ROTANTA 460 | 460 R

Superior benchtop for multi-purpose use

This powerful unit is capable of virtually any application you choose. It is able to spin high sample volumes of blood tubes, conical tubes, plates and bottles. Speciality buckets are able to accommodate 450 ml blood bags. This unit is available with refrigeration and a temperature range from -20 °C to +40 °C (ROTANTA 460 R).

— FEATURES

- RPM: 50 - 15,000 min⁻¹ – adjustable in increments of 10
- RCF: 50 - 24,400 min⁻¹ – adjustable in increments of 1
- 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

— FIELDS OF APPLICATION

- Hospitals
- Transfusion medicine laboratories
- Small blood centers
- Veterinary laboratories
- Pharmaceutical laboratories
- Food analyzing laboratories
- University / Academic research
- Oil laboratories
- Chemical industry
- Forensic laboratories



Centrifuge packages for the model can be found on [page 126](#)



More information about the control panel can be found on [page 198](#)

CYTO

Cyto system available for this model.
More information on [page 178](#)



ROTANTA 460



ROTANTA 460 R



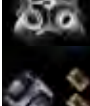
TECHNICAL DATA

	ROTANTA 460 non-refrigerated	ROTANTA 460 R refrigerated
voltage *)	220 – 240 V 1 ~	220 – 240 V 1 ~
frequency	50 – 60 Hz	50 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 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)	554x706x456 mm	770x706x456 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 ~ / 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

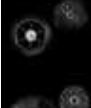
*) Other voltages on request.

AVAILABLE ROTORS

SWING-OUT ROTORS

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	112
	swing-out rotor, 4-place	90°	3,800 min ⁻¹	4 x 1,000 ml	5654	119
	swing-out rotor, 6-place	90°	4,000 min ⁻¹	6 x 290 ml	4446	121
	swing-out rotor, 4-place	90°	2,000 min ⁻¹	4 x 100 ml	4474	123
	swing-out rotor, 2-place	90°	5,900 min ⁻¹ / 6,200 min ⁻¹	12 plates	5622	123

ANGLE ROTORS

	angle rotor, 30-place	45°	15,000 min ⁻¹	30 x 2 ml	4489-A	124
	angle rotor, 6-place	25°	8,500 min ⁻¹ / 9,500 min ⁻¹	6 x 250 ml	5645	124
	angle rotor, 6-place	35°	11,500 min ⁻¹	6 x 94 ml	5615	125

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

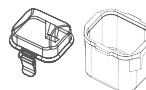
Rotor

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 temperature in °C ¹⁾	90° +10
Cat. No.	5699-R



Bucket

lid bioseal ³⁾	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	80	80	68	68	48	48
Cat. No.	4730	4732	4732	4733	4732	4732	4733	4733	4733	4732	4732	4733	4733	4739⁴⁾	4739

Vessels

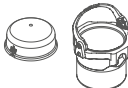
capacity in ml	50	12	25	30	50	10	30	50	85	94
Ø x L in mm	29 x 115	17 x 100	25 x 90	25 x 110	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102
max. RCF ²⁾	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,495
radius in mm	196	196	196	196	196	196	196	196	196	190
Cat. No.	tubes with screw cap									

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

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

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

					
Rotor		Bucket with clamp lock			
max. RPM max. RCF	4,600 min ⁻¹ 4,779	lid bioseal ⁵⁾		4883	
max. capacity	4x 750 ml	Cat. No.		4880	
run-up run-down, braked in sec	90 95	Bucket without clamp lock ¹⁴⁾			
angle	90°			4885	
temperature in °C ¹⁾	+7	Cat. No.		5699-R	
Cat. No.	5699-R				

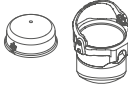
																													
capacity in ml	50	50	10	10	30	50	50	85	94	250	290	500	600	650	750														
Ø x L in mm	29 x 115	29 x 115	16 x 80	16 x 80	26 x 95	29 x 107	29 x 107	38 x 106	38 x 102	61 x 122	62 x 137	96 x 147	93 x 134	97 x 139	97 x 152														
max. RCF ²⁾	4,708	4,637	4,637	4,684	4,637	4,637	4,708	4,495	4,495	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⁾	- ²⁴⁾	Corning®	0551 ²⁴⁾	0554 ²⁴⁾	0512 ²⁴⁾													
																													
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														

																	
capacity in ml	450	750	30	50	40	160	200	200	200								
Ø x L in mm	97 x 110	93 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®								

																	
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.
- 3.9) When using these tubes, bucket 4890 cannot be closed with lid 4883.
- 4) Please remove the spacer.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- 14) 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.
- 21) Adapter must be loaded as illustrated.
- 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.
- 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				Bucket with clamp lock													
max. RPM max. RCF ²⁾		4,600 min ⁻¹ 5,063		lid bioseal ⁵⁾		4883											
max. capacity		4x750 ml		Cat. No.		4890											
run-up run-down, braked in sec		90 95															
angle		90°															
temperature in °C ¹⁾		+7		Bucket without clamp lock ¹⁴⁾													
Cat. No.		5699-R		Cat. No.		4895											
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⁾		top / bottom	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		top / bottom	144 / 192	144 / 192	189	189	196	196	196	184	187	186	189	189	196	189	189
Cat. No.		microliter tubes			tubes ²⁾							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	4468 ⁴⁾	4468	
Vessels																	
capacity in ml		250	290	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	93 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.		5127 ²⁴⁾	- ²⁴⁾	0554 ²⁴⁾	0512 ²⁴⁾	Falcon®	Nalgene®	Nunc®	Falcon®	Corning®	Corning®	4447	4234-A	blood bags ²⁸⁾			
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		4	4	4	4	4	4	4	4	4	4	4	4	4			
Cat. No.		4443	4443	4451	4451	4440	4430	4430	4440	4430	4449	4451	4451	-			

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 temperature in °C ¹⁾	90° +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 temperature in °C ¹⁾	90° +10
Cat. No.	5699-R



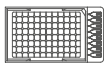
Bucket

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

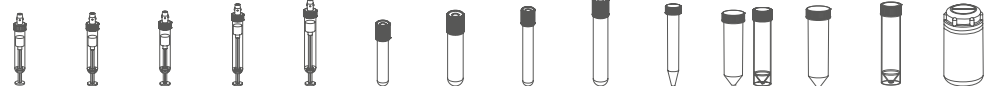
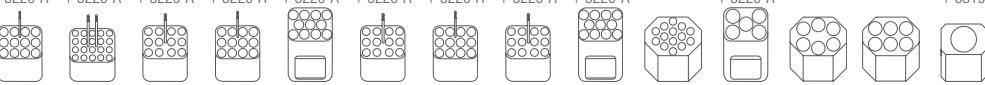
	
Rotor	
max. RPM max. RCF ²⁾	4,600 min ⁻¹ 4,258
max. capacity	4 x 250 ml
run-up run-down, braked in sec	90 95
angle temperature in °C ¹⁾	90° +10
Cat. No.	5699-R



Bucket		
Cat. No.		5628 9)
		
Adapter		
Cat. No.		5220-A



	
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 + 6319
	
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

CYTO

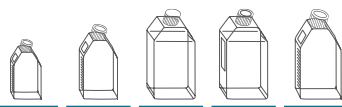
Cyto system available for this model.
More information on [page 178](#)

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 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.
- Please remove the spacer.
- 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.
- Two adapters can be placed on each bucket.
- 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		Bucket	
max. RPM max. RCF	4,600 min ⁻¹ 3,785	Cat. No.	5630-B
max. capacity	4 x 200 ml		
run-up run-down, braked in sec	90 95		
angle temperature in °C ¹⁾	90° +10		
Cat. No.	5699-R		



	
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

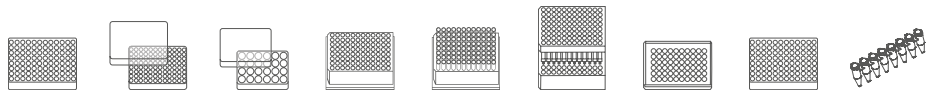
160 ml
Nunc®, No. 156472 or 156499
Sarstedt®, No. 83.3911.xxx

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

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

			
Rotor		Bucket	
max. RPM max. RCF	4,600 min ⁻¹ 3,832	Cat. No.	5630-B
max. capacity	20 plates		
run-up run-down, braked in sec	90 95		
angle temperature in °C ¹⁾	90° +10		
Cat. No.	5699-R		



	
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.

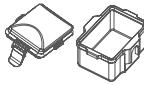
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

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



	
Bucket	
lid bioseal ⁵⁾	5629
Cat. No.	5628 ⁹⁾



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

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 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.
- Tested by TÜV in conformity with DIN EN 61010, section 2 - 020.
- 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 | 5654

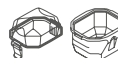


Rotor

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	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	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	99/126 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®	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	100/127 x 68
vessels per rotor	8	8	8	4	4	4	4	4	4
Cat. No.	5681	5681	5681	5687	5687	5687	5687	5687	5669

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

SWING-OUT ROTOR, 6-PLACE | 4446



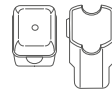
Rotor

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



ROTANTA 460 | 460 R

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
Cat. No.	microliter tubes				tubes ²⁾									



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	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
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⁾	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
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

CYTO

Cyto system available for this model.
More information on [page 178](#)

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 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.
- When using these tubes, bucket 5051 cannot be closed with lid 5053.
- 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 temperature in °C ¹⁾	90° -3
Cat. No.	4446



Bucket

lid bioseal ⁵⁾	5093
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	11x66	11x66
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	13.2x82	17.5x60.7	25.5x82	35.5x82.5	45.5x85	42x85	66x103	13.5x60.7	13.2x54.5	13.5x60.7	13.2x54.5	13.5x60.7	13.2x54.5
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	3,488	3,542	3,542	3,488	3,488	3,631	3,434
radius in mm	195	195	198	195	195	195	195	172	195	198	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	13.2x82	17.5x60.7	17.5x60.7	17.5x60.7	13.5x60.7	13.2x54.5	12.8x60.7	13.2x82	17.5 x 82	17.5x60.7	17.5x60.7	17 x 85	25.5 x 92
vessels per rotor	48	48	72	48	48	48	48	72	48	72	42	48	48	42	24
Cat. No.	5137	5136	5120	5136	5136	5136	5137	5138	5136	5120	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.

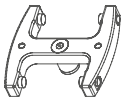
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

3.5) When using these tubes, bucket 5092 cannot be closed with lid 5053.

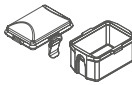
5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

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

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 temperature in °C ¹⁾		90° +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		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.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

ANGLE ROTOR, 30-PLACE | 4489-A

					
Rotor			+	Lid bioseal[®] 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 temperature in °C ¹⁾		45° +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	10.2x19.3	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 bioseal[®]	
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 temperature in °C ¹⁾		25° +7			
Cat. No.		5645			



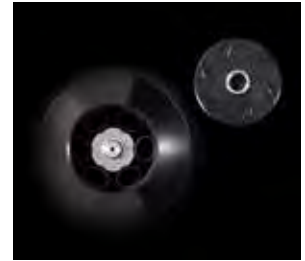
												
Vessels												
capacity in ml		15	25	94	15	50	10	30	50	85	94	250
Ø x L in mm		17x100	24x100	38x102	17x120	29x115	16x80	26x95	29x107	38 x 106	38 x 102	61x122
max. RCF ²⁾ ROTANTA 460		10,662	10,339	9,855	10,339	9,693	10,743	10,339	9,693	9,855	9,855	11,228
max. RCF ²⁾ ROTANTA 460 R		13,319	12,915	12,310	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	-

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 temperature in °C ¹⁾	45° +6
Cat. No.	5615


Lid bioseal ⁵⁾

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			tubes ²⁾				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	38.2x 89.6	38.2x 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 the TÜV in conformity with DIN EN 61010, section 2 - 020.
- 7) For centrifugation at high speeds, we recommend to use form-fitting, phenol-resistant adapters. Cat. No. 2031.
- 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

PACKAGES ROTANTA 460 | 460 R

ROTANTA 460 CONICAL PACKAGE 1

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 centrifuge	5650	56	15	17 x 120	4,600	4,637
- 1 x swing-out rotor, 4-place	5654	28	50	29 x 115	4,600	4,708
- 4 x bucket	5651-A					
- 4 x adapter, 24-place (conical)	5683					
- 4 x adapter, 10-place (conical)	5686					
5650SET1						



ROTANTA 460 CONICAL PACKAGE 2

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 centrifuge	5650	56	15	17 x 120	4,600	4,637
- 1 x swing-out rotor, 4-place	5699-R	28	50	29 x 115	4,600	4,708
- 4 x bucket	4885					
- 4 x adapter, 14-place (conical)	4839					
- 4 x adapter, 7-place (conical)	5647					
5650SET2						



ROTANTA 460 R CONICAL PACKAGE 1

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 R centrifuge	5660	56	15	17 x 120	4,600	4,755
- 1 x swing-out rotor, 4-place	5699-R	28	50	29 x 115	4,600	4,613
- 4 x bucket	4890					
- 4 x lid (bioseal)	4883					
- 4 x adapter, 7-place (conical)	4468					
- 4 x adapter, 14-place (conical)	4469					
5660SET1						



ROTANTA 460 R CONICAL PACKAGE 2

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 R centrifuge	5660	56	15	17 x 120	4,600	4,637
- 1 x swing-out rotor, 4-place	5654	28	50	29 x 115	4,600	4,708
- 4 x bucket	5651-A					
- 4 x adapter, 24-place (conical)	5683					
- 4 x adapter, 10-place (conical)	5686					
5660SET2						



ROTANTA 460 R CONICAL PACKAGE 3

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 R centrifuge	5660	56	15	17 x 120	4,600	4,637
- 1 x swing-out rotor, 4-place	5699-R	28	50	29 x 115	4,600	4,708
- 4 x bucket	4885					
- 4 x adapter, 14-place (conical)	4839					
- 4 x adapter, 7-place (conical)	5647					
5660SET3						



ROTANTA 460 R BLOOD TUBES PACKAGE 4

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 R centrifuge	5660	188	4-10	13 x 100	3,800	2,906
- 1 x swing-out rotor, 4-place	5654	148	4.5-15	17 x 100	3,800	2,970
- 4 x bucket	5651-A					
- 4 x lid (bioseal)	5652					
- 4 x adapter, 47-place	5685					
- 4 x adapter, 37-place	5682					
5660SET4						



ROTANTA 460 R BLOOD TUBES PACKAGE 5

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 R centrifuge	5660	108	2.6 - 7	13 x 100	4,600	4,684
- 1 x swing-out rotor, 4-place	5699-R	88	4 - 10	16 x 100	4,600	4,684
- 4 x bucket	4880					
- 4 x lid (bioseal)	4883					
- 4 x adapter, 27-place	4847					
- 4 x adapter, 22-place	4848					
5660SET5						



PACKAGES ROTANTA 460 RF

ROTANTA 460 RF CONICAL PACKAGE 1

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 RF centrifuge	5675	56	15	17 x 120	4,600	4,637
- 1 x swing-out rotor, 4-place	5654	28	50	29 x 115	4,600	4,708
- 4 x bucket	5651-A					
- 4 x adapter, 24-place (conical)	5683					
- 4 x adapter, 10-place (conical)	5686					

5675SET1

ROTANTA 460 RF CONICAL PACKAGE 2

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 RF centrifuge	5675	56	15	17 x 120	4,600	4,637
- 1 x swing-out rotor, 4-place	5699-R	28	50	29 x 115	4,600	4,708
- 4 x bucket	4885					
- 4 x adapter, 14-place (conical)	4839					
- 4 x adapter, 7-place (conical)	5647					

5675SET2

ROTANTA 460 RF BLOOD TUBE PACKAGE 3

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 RF centrifuge	5675	188	4-10	13 x 100	3,800	2,906
- 1 x swing-out rotor, 4-place	5654	148	4.5-15	17 x 100	3,800	2,970
- 4 x bucket	5651-A					
- 4 x lid (bioseal)	5652					
- 4 x adapter, 47-place	5685					
- 4 x adapter, 37-place	5682					

5675SET3

ROTANTA 460 RF BLOOD TUBE PACKAGE 4

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 RF centrifuge	5675	108	2.6 -7	13 x 100	4,600	4,684
- 1 x swing-out rotor, 4-place	5699-R	88	4 - 10	16 x 100	4,600	4,684
- 4 x bucket	4880					
- 4 x lid (bioseal)	4883					
- 4 x adapter, 27-place	4847					
- 4 x adapter, 22-place	4848					

5675SET4

