

ROTINA 420 | 420 R

Many solutions – one rotor

This compact benchtop centrifuge has been developed for large sample volumes. It has a maximum capacity of 4 x 600 ml bottles, 140 blood tubes, 16 microtiter plates or 52 x 15 ml conical tubes, all on a single cost-effective rotor. This unit is available with refrigeration and a temperature range from -20 °C to +40 °C (ROTINA 420 R).

FEATURES

- RPM: 50 - 15,000 min⁻¹ – adjustable in increments of 10
- RCF: 50 - 24,400 – adjustable in steps of 1
- Max. capacity: 4 x 600 ml
- High-performance with first-class equipment
- Choice of 5 rotors
- IVD-conform according to directive 98/79/EC
- Max. noise level of 51 dB(A) with rotor 4790-A
- Easy operation with keypad and control knob
- 98 program memories for more individuality
- 9 individual acceleration and deceleration stages
- Model 420 R coolable from -20 to +40 °C with pre-cooling function

FIELDS OF APPLICATION

- Hospitals
- Hematological laboratories
- Blood centers
- Veterinary laboratories
- Pharmaceutical laboratories
- Food analyzing laboratories
- University / Academic research



Centrifuge packages for the model can be found on [page 109](#)



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

CYTO

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



according to directive 98/79/EC



ROTINA 420



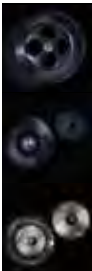
ROTINA 420 R

TECHNICAL DATA

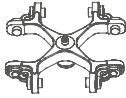
	ROTINA 420 non-refrigerated	ROTINA 420 R refrigerated
voltage *)	200–240 V 1 ~	200–240 V 1 ~
frequency	50–60 Hz	50 Hz
consumption	870 VA	1,600 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	4 x 600 ml	4 x 600 ml
max. RPM	15,000 min ⁻¹	15,000 min ⁻¹
max. RCF	24,400	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)	506 x 650 x 423 mm	713 x 654 x 423 mm
weight	approx. 75 kg	approx. 108 kg
noise level	51 dB (A) with rotor 4790-A	50 dB (A) with rotor 4790-A
temperature control, infinitely variable	-	from -20 to +40 °C
Cat. No.	4701	4706
100–127 V 1 ~ / 50–60 Hz *)	4701-01	4706-01
consumption	900 VA	1,850 VA
emission, immunity	FCC class B	FCC class B
weight	approx. 84 kg	approx. 117 kg

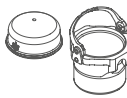
*) Other voltages on request.

AVAILABLE ROTORS

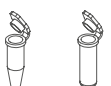
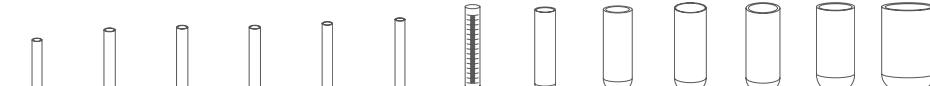
SWING-OUT ROTORS		angle	max. RPM	max. capacity	Cat. No.	page
	swing-out rotor, 4-place	90°	4,800 min ⁻¹	4x600 ml	4784-A	102
	swing-out rotor, 4-place	90°	4,000 min ⁻¹	4x290 ml	4753	104
ANGLE ROTORS						
	angle rotor, 4-place	25°	9,500 min ⁻¹	4x250 ml	4795	106
	angle rotor, 6-place	45°	11,000 min ⁻¹	6x94 ml	4794	107
	angle rotor, 30-place	45°	15,000 min ⁻¹	30x2 ml	4790-A	108

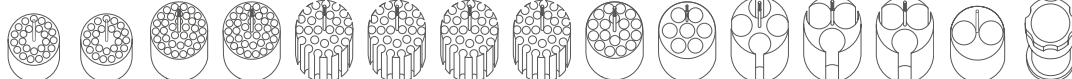
SWING-OUT ROTOR, 4-PLACE | 4784-A

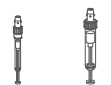
	
Rotor	
max. RPM max. RCF	4,800 min ⁻¹ 4,740
max. capacity	4 x 600 ml
run-up run-down, braked in sec	54 38
angle max. noise level	90° 56 dB (A)
temperature in °C ¹⁾	+4
Cat. No.	4784-A

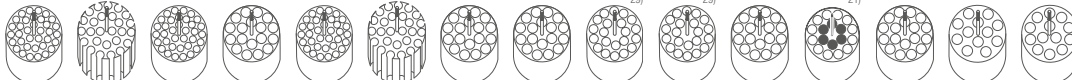
	
Bucket with clamp lock	
lid bioseal ⁵⁾	4783
Cat. No.	4780
	
Bucket without clamp lock ¹⁴⁾	
Cat. No.	4785



															
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	40 x 115	44 x 100	65 x 115
max. RCF ²⁾	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,559	4,559	4,559	4,534	4,534
radius in mm	178	178	178	178	178	178	178	178	178	178	177	177	177	176	176
Cat. No.	microliter tubes			tubes ²⁾											

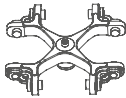
															
Adapter															
boring Ø x L in mm	11.2 x 38	11.2 x 38	11.2 x 54	11.2 x 54	13.4 x 55	13.4 x 55	13.4 x 55	13.4 x 55	17.5 x 62	26.5 x 69	36 x 77	42 x 76.5	42 x 76.5	46 x 76.5	66 x 97
vessels per rotor	96	96	140	140	104	104	104	104	72	28	16	12	12	8	4
Cat. No.	4773	4773	4761	4761	4762	4762	4762	4762	4763	4764	4765	4766	4766	4767	4768

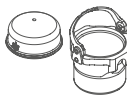
															
Vessels															
capacity in ml	1.1–1.4	2.6–3.4	2.7–3	4–5.5	4.5–5	4.9	7.5–8.5	9–10	1.6–7	1.6–7	4–7	8	8.5–10	5	15
Ø x L in mm	8 x 66	13 x 65	11 x 66	15 x 75	11 x 92	13 x 90	15 x 92	16 x 92	13 x 75	13 x 100	16 x 75	16 x 125	16 x 100	17 x 59	17 x 120
max. RCF ²⁾	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,740	4,740
radius in mm	178	178	178	178	178	178	178	178	178	178	178	178	178	184	184
Cat. No.	blood collection / urine vessels													-	-

															
Adapter															
boring Ø x L in mm	11.2 x 54	13.4 x 55	11.2 x 54	17.5 x 62	11.2 x 54	13.4 x 55	17.5 x 62	17.5 x 62	13.7 x 55	13.7 x 55	17.5 x 62	17.5 x 62	17.5 x 62	17 x 52	17 x 84
vessels per rotor	140	104	140	72	140	104	72	72	84	84	72	24	72	48	52
Cat. No.	4761	4762	4761	4763	4761	4762	4763	4763	4775	4775	4763	4763	4763	4778	4769

- Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the 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.
- 6) When using these tubes, bucket 4780 cannot be closed with lid 4783.
- Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- 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.
- Adapter must be loaded as illustrated.
- Suitable for blood collection systems with a lid larger than 17 mm in diameter.

SWING-OUT ROTOR, 4-PLACE | 4784-A

Rotor	
max. RPM max. RCF	4,800 min ⁻¹ 4,740
max. capacity	4 x 600 ml
run-up run-down, braked in sec	54 38
angle max. noise level	90° 56 dB (A)
temperature in °C ¹⁾	+4
Cat. No.	4784-A

Bucket with clamp lock	
lid bioseal ⁵⁾	4783
Cat. No.	4780
Bucket without clamp lock ¹⁴⁾	
Cat. No.	4785



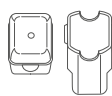
Vessels															
capacity in ml	50	12	25	30	50	10	30	50	85	94	175	175	200	225	250
Ø x L in mm	29 x 115	17 x 100	25 x 90	25 x 110	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102	61 x 118	62 x 144	60 x 130	61 x 137	61 x 122
max. RCF ²⁾	4,688	4,688	4,585	4,585	4,688	4,585	4,585	4,688	4,534	4,534	4,740	4,740	4,740	4,740	4,740
radius in mm	182	182	178	178	182	178	178	182	176	176	184	184	184	184	184
Cat. No.	tubes with screw cap										Falcon	Nalgene	Nunc®	Falcon	5127 ²⁴⁾
Adapter															
boring Ø x L in mm	30 x 82.5	17.2 x 82.5	26.5 x 69	26.5 x 69	30 x 82.5	17.5 x 62	26.5 x 69	30 x 82.5	42 x 76.5	42 x 76.5	61 x 105	61.5 x 110	61.5 x 110	61 x 105	62 x 100
vessels per rotor	20	56	28	28	20	72	28	20	12	12	4	4	4	4	4
Cat. No.	4770	4774	4764	4764	4770 ⁴⁾	4763	4764	4770 ⁴⁾	4766	4766	4776	4777	4777	4776	4771

Vessels				
capacity in ml	290	400	400	600
Ø x L in mm	62 x 137	81 x 136	84 x 134	93 x 134
max. RCF ²⁾	4,740	4,740	4,740	4,740
radius in mm	184	184	184	184
Cat. No.	- ²⁴⁾	- ²⁴⁾	- ²⁴⁾	0551 ²⁴⁾
Adapter				
boring Ø x L in mm	62 x 100	85 x 100	85 x 100	94 x 99
vessels per rotor	4	4	4	4
Cat. No.	4771	4772	4772	-

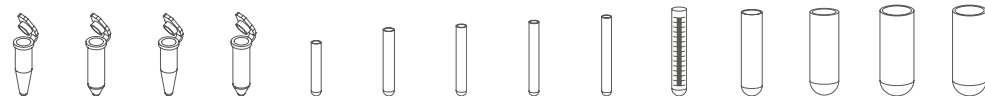
- 1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 3.6) When using these tubes, carrier 4780 cannot be closed with lid 4783.
- 4) Please remove the spacer.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- 13) The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 110 mm.
- 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.

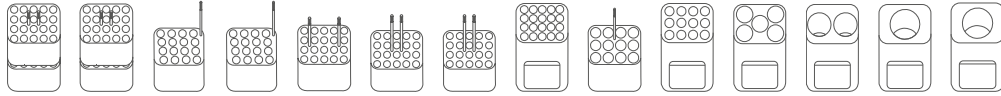
SWING-OUT ROTOR, 4-PLACE | 4753

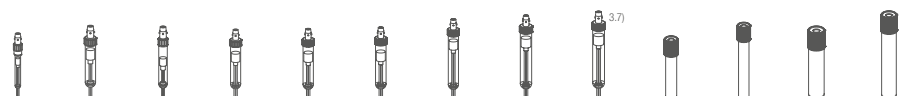
	
Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 2,898
max. capacity	4 x 100 ml
run-up run-down, braked in sec	18 16
angle max. noise level	90° 58 dB (A)
temperature in °C ¹⁾	-1
Cat. No.	4753

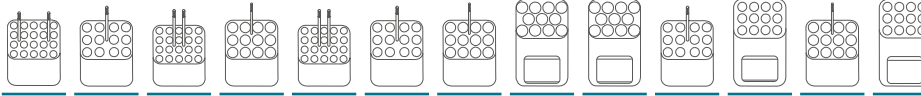
	
Bucket	
lid	5053
Cat. No.	5051



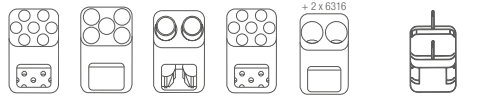
	
Vessels	
capacity in ml	1.5 2 1.5 2 3 5 6 7 9 15 25 50 100 100
Ø x L in mm	11x38 11x38 11x38 11x38 10x60 12x75 12x82 12x100 14x100 17x100 24x100 34x100 44x100 40x115
max. RCF ²⁾	top / bottom 1,950 / 2,826 1,950 / 2,826 2,826 2,826 2,737 2,773 2,773 2,755 2,773 2,755 2,755 2,755 2,755 2,755
radius in mm	top / bottom 109 / 158 109 / 158 158 158 153 155 155 154 155 154 154 154 154 154
Cat. No.	microliter tubes tubes²⁾

	
Adapter	
boring Ø x L in mm	12.5x42 12.5x42 11.5x50 11.5x50 11 x 44 12.5x42 12.5x42 12.5x86 16x50 17.5x86 26x86 36x86 45.5x86 42x86
vessels per rotor	160 160 64 64 80 80 80 80 48 48 20 8 4 4
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	8x66 13x65 11 x 66 15 x 75 11 x 92 13x90 15x92 16x92 15x102 13x75 13x100 16x75 16x100
max. RCF ²⁾	2,737 2,808 2,773 2,773 2,773 2,808 2,773 2,755 2,755 2,808 2,755 2,773 2,755
radius in mm	153 157 155 155 155 157 155 154 154 157 154 155 154
Cat. No.	blood collection / urine vessels

	
Adapter	
boring Ø x L in mm	11 x 44 13.5x52 12.5x42 16x50 12.5x42 13.5x52 16x50 17.6x86 17.6x86 13.5x52 13.5x86 16x50 17.5x86
vessels per rotor	80 48 80 48 80 48 48 44 44 48 48 48 48
Cat. No.	5267 5268 5227 5264 5227 5268 5264 5258 5258 5268 6301 5264 5248

	
Vessels	
capacity in ml	15 30 50 12 50 1–8
Ø x L in mm	17x120 25x110 29x115 17x100 29x115 simple / multiple
max. RCF ²⁾	2,898 2,755 2,826 2,898 2,755 1,735 / 2,737
radius in mm	162 154 158 162 154 97 / 153
Cat. No.	tubes with screw cap cyto chambers

	
Adapter	
boring Ø x L in mm	17 x 90 26 x 66 30 x 86 17 x 90 36 x 86 -
vessels per rotor	28 20 8 28 8 8
Cat. No.	6306 5266 5259 6306 5243 5280

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

- 1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 3.7) When using these tubes, bucket 4780 or 5051 cannot be closed with lid 4783 or 5053.

SWING-OUT ROTOR, 4-PLACE | 4753

Rotor

max. RPM max. RCF	4,000 min ⁻¹ 3,095
max. capacity	4 x 290 ml
run-up run-down, braked in sec	18 16
angle max. noise level	90° 58 dB (A)
temperature in °C ¹⁾	-1
Cat. No.	4753



Bucket

lid bioseal ²⁾	5093
Cat. No.	5092



Vessels

capacity in ml	5	6	7	15	25	50	100	100	250	1.1–1.4	2.6–3.4	2.7–3	4–5.5	4.5–5	4.9
Ø x L in mm	12x75	12x82	12x100	17x100	24x100	34x100	44x100	40x115	65x115	8 x 66	13 x 65	11x66	15x75	11x92	13x90
max. RCF ²⁾	3,005	3,005	3,005	2,952	2,898	2,952	2,952	2,952	3,095	2,540	2,540	2,540	2,952	3,005	2,952
radius in mm	168	168	168	165	162	165	165	165	173	142	142	142	165	168	165
Cat. No.	tubes²⁾									blood collection / urine vessels					



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	13.2x54.5	13.2x54.5	13.2x54.5	17.5x60.7	13.2x82	13.5x60.7
vessels per rotor	48	48	48	32	16	4	4	4	4	48	48	48	32	48	32
Cat. No.	5128	5128	5120	5136	5122	5124	5125	5126	1791	5138	5138	5138	5136	5120	5137

Vessels

capacity in ml	7.5–8.5	9–10	10	1.6–5	4–7	4–7	8.5–10	8	15	50	12	25	30	50	10
Ø x L in mm	15x92	16x92	15x102	13x75	13x100	16x75	16x100	16x125	17x120	29x115	17x100	25x90	25x110	29x115	16 x 80
max. RCF ²⁾	2,952	2,952	2,952	2,540	3,005	2,952	2,952	3,059	3,095	3,095	3,005	2,826	2,898	3,023	2,952
radius in mm	165	165	165	142	168	165	165	171	173	173	168	158	162	169	165
Cat. No.	blood collection / urine vessels									tubes with screw cap					

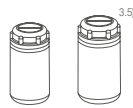


Adapter

boring Ø x L in mm	17.5x60.7	17.5x60.7	17.5x60.7	13.2x54.5	13.2x82	17.5x60.7	17.5x60.7	17.5x82	17x85	30x85	17.5x82	26x73	25.5x82	30x99	17.5x60.7
vessels per rotor	32	32	32	48	48	32	32	28	28	8	28	12	16	8	32
Cat. No.	5136	5136	5136	5138	5120	5136	5136	5121³⁾	5129	5123	5121	5134	5122	5135	5136

Vessels

capacity in ml	250	290
Ø x L in mm	61 x 122	62 x 137
max. RCF ²⁾	3,095	3,095
radius in mm	173	173
Cat. No.	5127²⁴⁾	– 24)



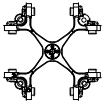
Adapter

boring Ø x L in mm	66x103	66x103
vessels per rotor	4	4
Cat. No.	6319	6319



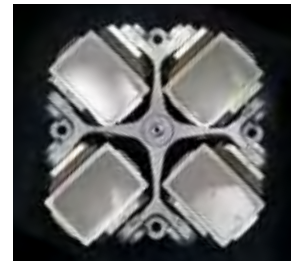
- 1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 3.5) 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.

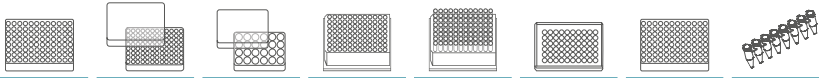
SWING-OUT ROTOR, 4-PLACE | 4784-A

	
Rotor	
max. RPM max. RCF	4,800 min ⁻¹ 4,096
max. capacity	16 plates
run-up run-down, braked in sec	54 38
angle max. noise level	90° 56 dB (A)
temperature in °C ¹⁾	+4
Cat. No.	4784-A

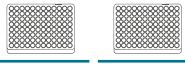


	
Bucket	
Cat. No.	4782



								
Plates								
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	84x59x11	124x82x20	-
capacity in ml	-	-	-	-	-	-	-	0,2
max. RCF ²⁾	4,096	4,096	4,096	4,096	4,096	4,096	4,096	4,096
radius in mm	159	159	159	159	159	159	159	159
Cat. No.	MTP	MTP	CP	DWP	MS	Microtest plate	PCR plate 96 wells	PCR strips



								
Adapter								
boring Ø x L in mm	-	-	-	-	-	-	-	-
plates / strips per rotor	16	16	12	4	4	8	4	48 x 8
Cat. No.	-	-	-	-	-	-	1485	1485

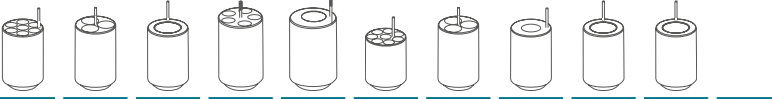
ANGLE ROTOR, 4-PLACE | 4795

	
Rotor	
max. RPM max. RCF	9,500 min ⁻¹ 12,007
max. capacity	4x250 ml
run-up run-down, braked in sec	45 55
angle	25°
temperature in °C ¹⁾	+2
Cat. No.	4795



										
Vessels										
capacity in ml	15	25	94	15	50	10	30	50	85	94
Ø x L in mm	17x100	24x100	38x102	17x120	29x115	16x80	26x95	29x107	38x106	38x102
max. RCF ²⁾	11,301	10,897	10,292	10,998	10,090	11,402	10,897	10,090	10,292	12,007
radius in mm	112	108	102	109	100	113	108	100	102	102
Cat. No.	tubes ²⁾					tubes with screw cap				5127 ²⁴⁾



										
Adapter										
boring Ø x L in mm	17.6x83	26x80	38.6x88	17x106	30x100	16.6x70	26x80	29x90	38.6 x 88	38.6 x 88
vessels per rotor	28	12	4	20	4	32	12	4	4	4
Cat. No.	5646	5642	5644	5637	5638	5641	5642	5643	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 | 4794

															
Rotor		Lid bioseal⁵⁾													
max. RPM max. RCF	11,000 min ⁻¹ 16,504	Cat. No.		INCLUSIVE											
max. capacity	6 x 94 ml														
run-up run-down, braked in sec	40 63														
angle max. noise level	45° 58 dB (A)														
temperature in °C ¹⁾	+4														
Cat. No.	4794														
Vessels															
capacity in ml	1.5 – 2	3	15	25	50	94	7.5 – 10	5	15	50	10	30	50	85	94
Ø x L in mm	11 x 38	10 x 60	17 x 100	24 x 100	34 x 100	38 x 102	15 x 102 / 16 x 92 ³⁶⁾	17 x 59	17 x 120	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102
max. RCF ²⁾	15,828	15,828	15,557	15,151	16,233	16,504	15,557	15,422	15,828	16,098	15,557	15,151	15,828	16,504	16,504
radius in mm	117	117	115	112	120	122	115	114	117	119	115	112	117	122	122
Cat. No.	-	tubes ²⁾					-	-	tubes with screw cap						
Adapter															
boring Ø x L in mm	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 x 51	17 x 106	29.8 x 97	16.5 x 74	26 x 85	29 x 92	38.2 x 89.6	38.2 x 89.6
vessels per rotor	24	24	6	6	6	6	6	6	6	6	12	6	6	6	6
Cat. No.	1449	1449	1451	1447	1463	-	1451	1476	1466	1454	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.

36) Capacity in ml: 8.5-10 Ø x L in mm: 16 x 100.

ANGLE ROTOR, 30-PLACE | 4790-A

				
Rotor		+	Lid bioseal⁵⁾, 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	19 24			
angle max. noise level	45° 50 dB (A)			
temperature in °C ¹⁾	+4			
Cat. No.	4790-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	11 x38	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	11.2x40.9	11.2x40.9
vessels per rotor	30	30	30	30	30	30	15
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	0788¹⁷⁾



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.

17) Packaging unit 15 pieces.

PACKAGES

ROTINA 420

BLOOD TUBE PACKAGE 1

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTINA 420 centrifuge	4701	64	1.6 - 7	13 x 75 / 100	4,800	4,585
- 1 x swing-out rotor, 4-place	4784-A	52	4 - 10	16 x 75 / 100	4,800	4,585
- 4 x bucket	4780					
- 4 x lid (bioseal)	4783					
- 4 x adapter, 26-place	4762					
- 4 x adapter, 18-place	4763					
4701SET1						



ROTINA 420 CONICAL PACKAGE 2

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTINA 380 centrifuge	4701	64	1.6 - 7	13 x 75 / 100	5,000	4,668
- 1 x swing-out rotor, 4-place	4784-A	52	4 - 10	16 x 75 / 100	5,000	4,668
- 4 x bucket	4785					
- 4 x adapter, 13-place (conical)	4769					
- 4 x adapter, 5-place (conical)	4770					
4701SET2						



ROTINA 420 R

BLOOD TUBE PACKAGE 1

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTINA 420 centrifuge	4706	64	1.6 - 7	13 x 75 / 100	5,000	4,668
- 1 x swing-out rotor, 4-place	4784-A	52	4 - 10	16 x 75 / 100	5,000	4,668
- 4 x bucket	4780					
- 4 x lid (bioseal)	4783					
- 4 x adapter, 26-place	4762					
- 4 x adapter, 18-place	4763					
4706SET1						



ROTINA 420 R CONICAL PACKAGE 2

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTINA 420 R centrifuge	4706	64	1.6 - 7	13 x 75 / 100	5,000	4,668
- 1 x swing-out rotor, 4-place	4784-A	52	4 - 10	16 x 75 / 100	5,000	4,668
- 4 x bucket	4785					
- 4 x adapter, 13-place (conical)	4769					
- 4 x adapter, 5-place (conical)	4770					
4706SET2						

