

BENCHTOP CENTRIFUGES

— 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).



— HIGHLIGHTS

- 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
- IVDR-conform according to regulation (EU) 2017/746
- 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

— FEATURES

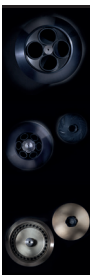
- metal housing and lid
- viewing port in the lid
- powered one-hand lid lock
- lid dropping protection
- emergency lid lock release
- stainless steel chamber
- automatic rotor recognition
- brushless drive
- error display
- display in °C and °F possible
- imbalance monitoring and switch-off
- backlit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

TECHNICAL DATA

	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)	506x650x423 mm	713x654x423 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

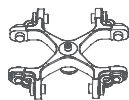
*) Other voltages on request.

AVAILABLE ROTORS

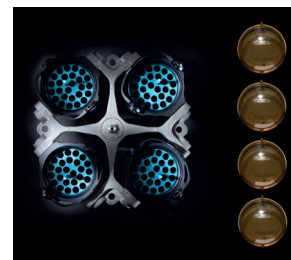
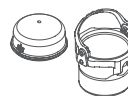
SWING-OUT ROTORS		angle	max. RPM	max. capacity	Cat. No.	page
	swing-out rotor, 4-place	90°	4,800 min ⁻¹	4x600 ml	4784-A	3
	swing-out rotor, 4-place	90°	4,000 min ⁻¹	4x290 ml	4753	6
ANGLE ROTORS						
	angle rotor, 4-place	25°	9,500 min ⁻¹	4x250 ml	4795	8
	angle rotor, 6-place	45°	11,000 min ⁻¹	6x94 ml	4794	8
	angle rotor, 30-place	45°	15,000 min ⁻¹	30x2 ml	4790-A	9

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⁾

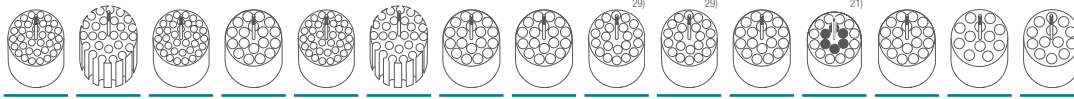


Adapter	
boring Ø x L in mm	11.2 x 38 11.2 x 38 11.2 x 54 11.2 x 54 13.4 x 55 13.4 x 55 13.4 x 55 13.4 x 55 17.5 x 62 26.5 x 69 36 x 77 42 x 76.5 42 x 76.5 46 x 76.5 66 x 97
vessels per rotor	96 96 140 140 104 104 104 104 72 28 16 12 12 8 4
Cat. No.	4773 4773 4761 4761 4762A 4762A 4762A 4762A 4763A 4764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

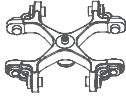
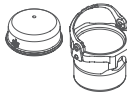


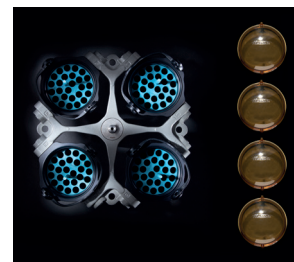
Adapter	
boring Ø x L in mm	11.2 x 54 13.4 x 55 11.2 x 54 17.5 x 62 11.2 x 54 13.4 x 55 17.5 x 62 17.5 x 62 13.7 x 55 13.7 x 55 17.5 x 62 17.5 x 62 17.5 x 62 17 x 52 17 x 84
vessels per rotor	140 104 140 72 140 104 72 72 84 84 72 24 72 48 52
Cat. No.	4761 4762A 4761 4763A 4761 4762A 4763A 4763A 4775A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



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, bucket 4780 cannot be closed with lid 4783.
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.
29) Suitable for blood collection systems with a lid larger than 17 mm in diameter.

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

Rotor		+	Bucket with clamp lock	
	max. RPM max. RCF		lid bioseal ⁵⁾	4783
	max. capacity		Cat. No.	4780
	run-up run-down, braked in sec		Bucket without clamp lock ¹⁴⁾	
	angle max. noise level		Cat. No.	4785
	temperature in °C ¹⁾			
Cat. No.	4784-A			



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⁾
																
	boring Ø x L in mm	30 x 82.5	17.2 x 58.5	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.	4770A	4774A	4764	4764	4770A ⁴⁾	4763A	4764	4770A 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	62x100	85x100	85x100	94x99
	vessels per rotor	4	4	4	4
	Cat. No.	4771	4772	4772	-

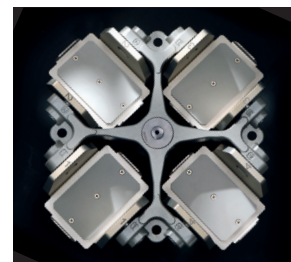
- Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.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

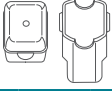
1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

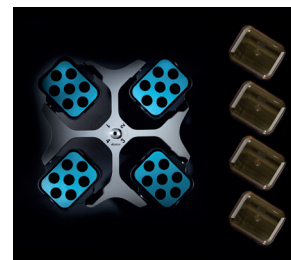
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

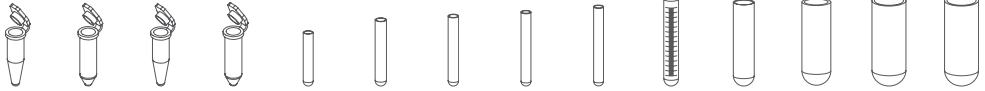
24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

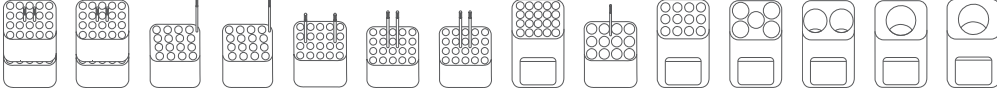
SWING-OUT ROTOR, 4-PLACE | 4753

	
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

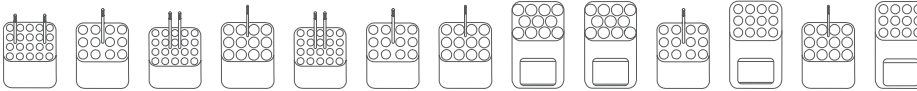
	
Bucket	
lid	5053
Cat. No.	5051



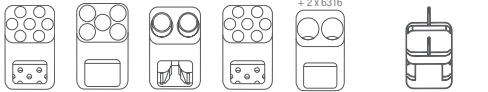
	
Vessels	
capacity in ml	1.5 2 1.5 2 3 5 6 7 9 15 25 50 100 100
Ø x L in mm	11 x 38 11 x 38 11 x 38 11 x 38 10 x 60 12 x 75 12 x 82 12 x 100 14 x 100 17 x 100 24 x 100 34 x 100 44 x 100 40 x 115
max. RCF ²⁾	top / bottom 1,950 / 2,826 1,950 / 2,826 2,826 2,826 2,737 2,773 2,773 2,755 2,773 2,755 2,755 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 tubes ³⁾

	
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	160 160 64 64 80 80 80 80 48 48 20 8 4 4
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⁾	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 13.5 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 86 16 x 50 17.5 x 86
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	17 x 120 25 x 110 29 x 115 17 x 100 29 x 115 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

- 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 ³⁾	5093
Cat. No.	5092



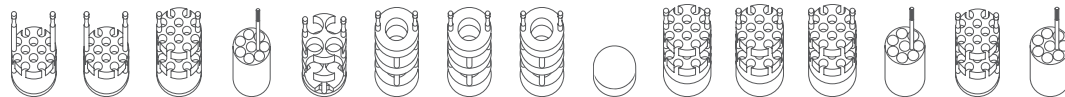
Vessels

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					



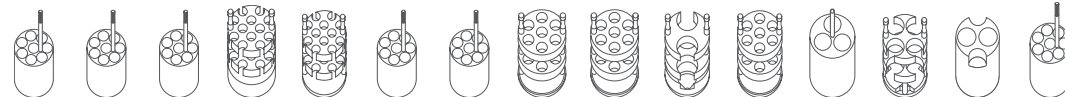
Adapter

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



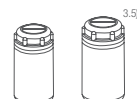
Vessels

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	5121⁴⁾	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



- 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.
- When using these tubes, bucket 5092 cannot be closed with lid 5053.
- Tested by the 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.

ANGLE ROTOR, 4-PLACE | 4795



Rotor

max. RPM max. RCF	9,500 min ⁻¹ 12,007
max. capacity	4 x 250 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	250
Ø x L in mm	17 x 100	24 x 100	38 x 102	17 x 120	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102	61 x 122
max. RCF ²⁾	11,301	10,897	10,292	10,998	10,090	11,402	10,897	10,090	10,292	10,292	12,007
radius in mm	112	108	102	109	100	113	108	100	102	102	119
Cat. No.	tubes ²⁾			tubes with screw cap							5127 ²⁴⁾



Adapter

boring Ø x L in mm	17.6 x 83	26 x 80	38.6 x 88	17 x 106	30 x 100	16.6 x 70	26 x 80	29 x 90	38.6 x 88	38.6 x 88	61.5 x 109
vessels per rotor	28	12	4	20	4	32	12	4	4	4	4
Cat. No.	5646	5642	5644	5637	5638	5641	5642	5643	5644	5644	-

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

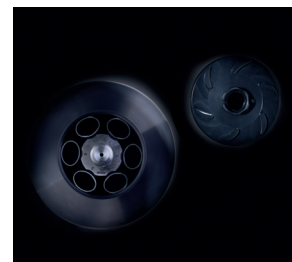
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

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

ANGLE ROTOR, 6-PLACE | 4794

	
Rotor	
max. RPM max. RCF	11,000 min ⁻¹ 16,504
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

	
Lid bioseal ⁵⁾	
Cat. No.	INCLUSIVE



	
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

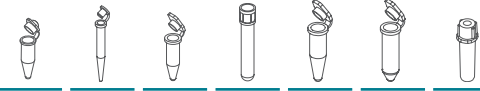
	
Adapter	
boring Ø x L in mm	11.4 x 39 11.4 x 39 17.5 x 92 26 x 85 35 x 89 38.2 x 89.6 17.5 x 92 17 x 51 17 x 106 29.8 x 97 16.5 x 74 26 x 85 29 x 92 38.2 x 89.6 38.2 x 89.6
vessels per rotor	24 24 6 6 6 6 6 6 6 6 12 6 6 6 6
Cat. No.	1449 1449 1451 1447 1463 - 1451 1476 1466 1454 1448 1447 1446 - -

ANGLE ROTOR, 30-PLACE | 4790-A

	
Rotor	
max. RPM max. RCF	15,000 min ⁻¹ 24,400
max. capacity	30 x 2 ml
run-up run-down, braked in sec	19 24
angle max. noise level	45° 50 dB (A)
temperature in °C ¹⁾	+4
Cat. No.	4790-A

	
Lid bioseal ⁵⁾, phenol-resistant	
Cat. No.	INCLUSIVE



	
Vessels	
capacity in ml	0.2 0.4 0.5 0.8 1.5 2 0.5
Ø x L in mm	6 x 18 6 x 45 8 x 30 8 x 45 11 x 38 11 x 38 10.7 x 36
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	6 x 40 6 x 40 8 x 40 8 x 40 10.2 x 19.3 11.2 x 40.9 11.2 x 40.9
vessels per rotor	30 30 30 30 30 30 15
Cat. No.	2024 2024 2023 2023 2031 ⁷⁾ - 0788 ¹⁷⁾

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.

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

CERTIFICATIONS / REGISTRATIONS

Product certification:



Product registration:



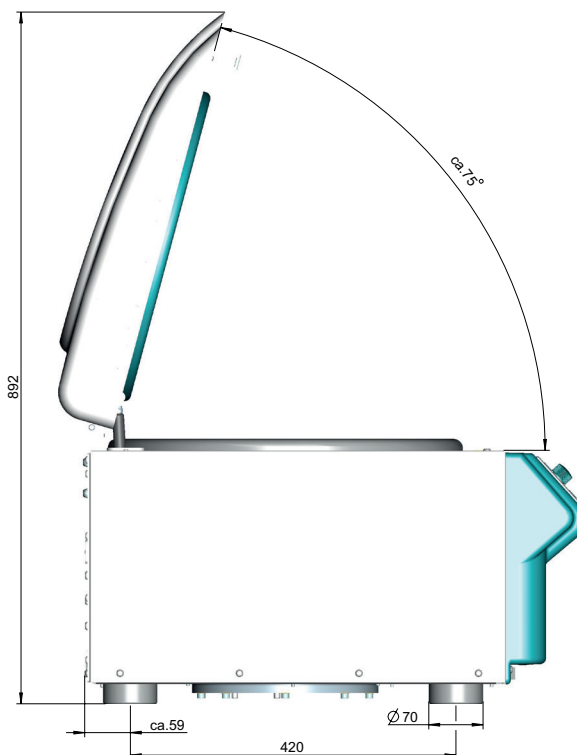
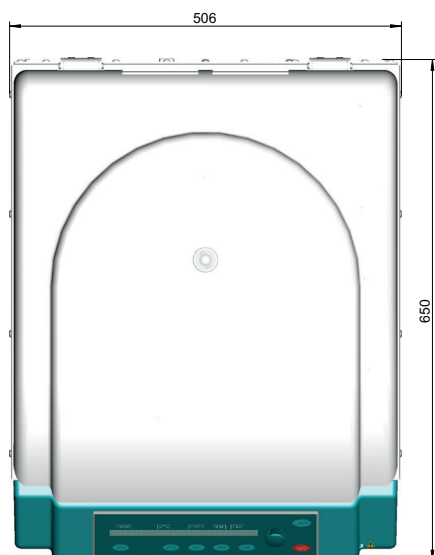
Company certifications:



DOWNLOADS

[↓ Operating manual – ROTINA 420 | 420 R](#)
[↓ General Catalog](#)

DIMENSIONS | ROTINA 420



DIMENSIONS | ROTINA 420 R

