



ROTINA 380 / 380 R
Benchtop Centrifuges
classic / cooled

Efficiency and safety are key requisites in today's laboratories – whether for research or routine tasks.

Wherever centrifuges are incorporated to working processes, they need to deliver good separation results quickly and safely.

The ROTINA 380 and 380 R centrifuge models are ideally equipped to take on these challenges. Their high performance and advanced features set standards among the benchtop centrifuges in their class.

Samples with capacities of up to 4 x 290 ml can be processed in these high-performance centrifuges with a max. RCF of 4,863. Should higher speeds be required, angle rotors with a max. RCF of 22,789 for 50 ml culture tubes are available.

Accessories with bio-containment protect users from aerosols while ensuring optimal safety, for instance, while centrifuging infectious samples.

PERFORMANCE

- High capacity
 - max. 4 x 290 ml
 - max. 32 x 15 ml
- High RCF
 - up to 22,789 for 50 ml tubes
 - up to 16,504 for 94 ml tubes
 - up to 24,400 for reaction tubes

DESIGN

- Metal housing
- Stainless steel centrifuging chamber
- Viewing port in the lid

USER-FRIENDLINESS

- Powered lid locking
- Ergonomic control and information panel
- Easy rotor changing
- 98 program storage spaces

COOLING (ROTINA 380 R)

- Infinitely variable adjustment from -20 °C to +40 °C (or -4 °F to +104 °F)
- Stand-by cooling

SAFETY

- Lid locking and holding
- Emergency lid lock release
- Lid dropping protection
- Automatic rotor recognition
- Imbalance switch-off
- Motor overheating protection
- Chamber overheating protection (ROTINA 380 R)



ROTINA 380

Cat. No. 1701

OPERATION AND CONTROL

With the convenient C control panel, even the most challenging centrifugation programs can easily be keyed in, stored and accessed as required.

98 program memory positions are available. Additional program position “PREC” (PRE-COOLING) is reserved for the pre-cooling program.

Parameter selection is done via the use of symbol keys. Values are set with the control knob, and recorded by pressing the Start key.

9 braking and acceleration ramps, unbraked run-down, or a cut-off speed can be selected. Ramp 9 represents the shortest braking and acceleration time.

The temperature in the ROTINA 380 R refrigerated centrifuge can be set in either Celsius (°C) or Fahrenheit (°F) degrees. The temperature range is between - 20 °C and + 40 °C or between - 4 °F and + 104 °F.

DIGITAL DISPLAY AND CONTROL PANEL

KEYBOARD

START	Start centrifugation run / short centrifuging runs / save entries and changes Start pre-cooling program PREC
STOP OPEN	Manually end centrifugation run / Open lid

PARAMETER INPUT

PROG	Input / recall program number 98 programs can be stored
T/°C	Input temperature in increments of 1 from - 20 °C to + 40 °C or - 4 °F to + 104 °F (ROTINA 380 R)
	Input of acceleration levels 1 – 9 Input of braking levels 1 – 9 Input brake force cut-off
RCF	Input relative centrifugal force (RCF) in increments of 1 Enter centrifuging radius (RAD) in mm
RPM	Input speed in increments of 10
TIME	Input length of centrifugation (max. 99 h : 59 min : 59 sec) or continuous operation



ROTINA 380 R control panel (C control panel)



ROTINA 380 R cooled
Cat. No. 1706

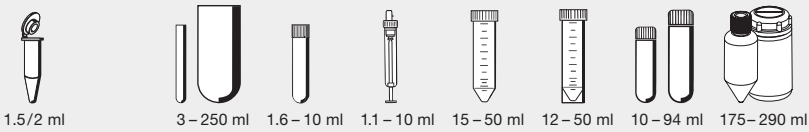
ROTORS AND ACCESSORIES

Quick overview of rotors and suitable accessories. The figures highlighted under the arrows refer to the pages where technical and ordering details are listed.

Some accessories with bio-containment⁵⁾



Swing-out rotor 4-place
↗ 90°
n = 5,000 min⁻¹
max. RCF 4,863
Cat. No. 1754

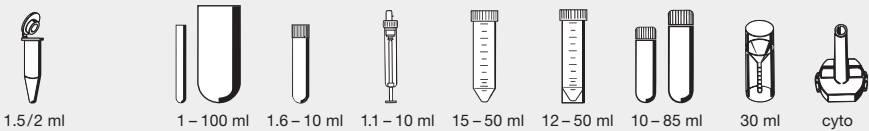


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P.6-7

Some accessories with bio-containment⁵⁾



Swing-out rotor 4-place
↗ 90°
n = 4,600 min⁻¹
max. RCF 3,832
Cat. No. 1724

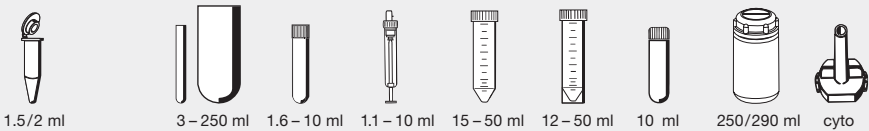


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P.8-11

Some accessories with bio-containment⁵⁾



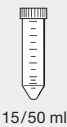
Swing-out rotor 4-place
↗ 90°
n = 4,000 min⁻¹
max. RCF 3,095
Cat. No. 1798



→
P.12-14



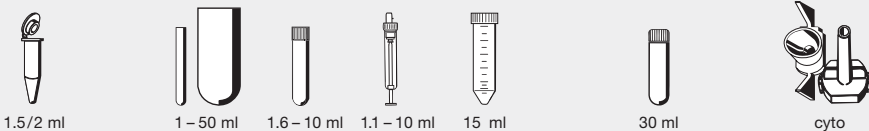
Swing-out rotor 10-place
↗ 45°
n = 4,600 min⁻¹
max. RCF 3,856
Cat. No. 1717



→
P.14



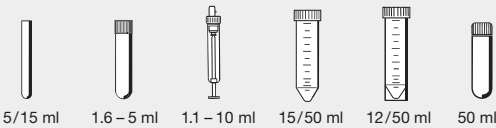
Swing-out rotor 6-place
↗ 90°
n = 4,000 min⁻¹
max. RCF 2,808
Cat. No. 1726



→
P.15-16



Angle rotor 8-place
↗ 45°
n = 4,500 min⁻¹
max. RCF 3,283
Cat. No. 1721



→
P.16



Swing-out rotor 2-place
↗ 90°
n = 4,000 min⁻¹
max. RCF 2,397
Cat. No. 1760



PCR strips



plates

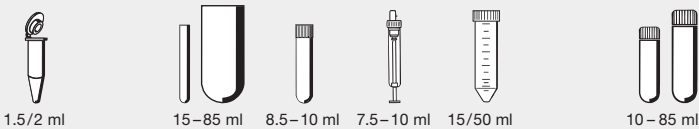
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P.17

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

ROTORS AND ACCESSORIES



**Angle rotor
6-place**
↗ 45°
380 R:
n = 11,000 min⁻¹
max. RCF 16,369
380:
n = 10,000 min⁻¹
max. RCF 13,528
Cat. No. 1720

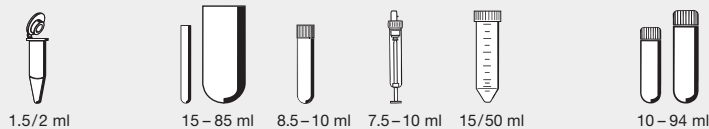


→
P.17-18



with bio-
containment⁵⁾

**Angle rotor
6-place**
↗ 45°
380 R:
n = 11,000 min⁻¹
max. RCF 16,504
380:
n = 10,000 min⁻¹
max. RCF 13,640
Cat. No. 1792



→
P.18-19



with bio-
containment⁵⁾

**Angle rotor
30-place**
↗ 45°
n = 15,000 min⁻¹
max. RCF 24,400
Cat. No. 1789



→
P.19



**Drum rotor
6-place**
n = 15,000 min⁻¹
max. RCF 18,866
Cat. No. 1711



→
P.19



rotor only for ROTINA 380 R

**Angle rotor
8-place**
↗ 25°
n = 14,000 min⁻¹
max. RCF 22,789
Cat. No. 1797



→
P.19



**Cyto rotor
8-place**
n = 4,000 min⁻¹
max. RCF 2,415
Cat. No. 1748

Detailed information on our comprehensive range of cyto accessories is provided in a separate brochure. We will be pleased to send one to you on request.

Additional tubes e.g. stool tubes or spin columns on request.

ROTORS AND ACCESSORIES

Swing-out rotor, 4-place

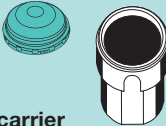


± 90°

$n = 5,000 \text{ min}^{-1}$
max. RCF 4,863

illustrated with carriers 1752 and lids 1751
with bio-containment⁵⁾

Cat. No. (without carriers) 1754

capacity in ml	1.5	2.0	3	4	5	6	7	9	10	15	25	50	75	85	100		
Ø x L in mm	11 x 38		10 x 60	12 x 60	12 x 75	12 x 82	12 x 100	14 x 100	17 x 70	17 x 100	24 x 100	34 x 100	35 x 105	38 x 106	40 x 115		
Cat. No.	2078	0536	-		0553 ²⁾	0501 ²⁾	0578 ²⁾	0500 ²⁾	2079	0518 ²⁾	0519 ²⁾	0521 ²⁾	0548	0549	0523 ²⁾		
lid with bio-containment ⁵⁾ Cat. No. 1751 																	
																	
Cat. No.	1761		1761		1762			1763			1764		1765		1777	1767	
boring Ø x L in mm	11.2 x 39.5		11.2 x 39.5		12.5 x 56			17.5 x 62			25.5 x 81		35.5 x 81		38.5 x 80	41 x 97	
tubes per rotor	144		72		96			52			24		12		8	4	
max. RCF ²⁾ upper/lower	3,494 / 4,779		4,779		4,668										4,807		4,640
radius in mm upper/lower	125 / 171		171		167										172		166
run-up in sec	41																
run-down in sec	 27  550																
temperature in °C ¹⁾	0																

capacity in ml	100	250	1.1–1.4	2.6–2.9	2.7–3	4–5.5	4.5–5	4.9	7.5–8.2	9–10	10	1.6–5	4–7	4–7	8	
Ø x L in mm	44x100	65x115	8x66	13x65	11x66	15x75	11x92	13x90	15x92	16x92	15x102	13x75	13x100	16x75	16x125	
Cat. No.	0526 ²⁾	0530 ²⁾	blood collection/urine tubes													
lid with bio-containment ⁵⁾ Cat. No. 1751 																
																
Cat. No.	1766	1768	1781	1783	1762	1763	1762	1783	1763			1783		1763		
boring Ø x L in mm	45x87	66x104.5	9x49	13.5x54	12.5x56	17.5x62	12.5x56	13.5x54	17.5x62			13.5x54		17.5x62		
tubes per rotor	4	4	96	60	96	52	96	60	52			60		52		
max. RCF ²⁾	4,640		4,668													
radius in mm	166		167													
run-up in sec	41															
run-down in sec	 27  550															
temperature in °C ¹⁾	0															

¹⁾ Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be reached 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⁾ When using these tubes, carrier 1752 cannot be closed with lid 1751.

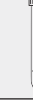
⁵⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

ROTORS AND ACCESSORIES



illustrated with carriers 1752 and lids 1751
with bio-containment⁵⁾

Swing-out rotor Cat. No. (without carriers) 1754

capacity in ml	8.5–10	15	50	12	25	30	50	10	14	30	50	85	94	175	175
Ø x L in mm	16x100	17x120	29x115	17x100	25x90	25x110	29x115	16x80	16.5x106	26x95	29x107	38x106	38x102	61x118	62x144
Cat. No.	blood coll. tube	0509	0513	-							0545	0546	0547	0538 ¹⁰⁾	Falcon® Nalgene®
lid with bio-containment ⁵⁾ Cat. No. 1751   carrier Cat. No. 1752															
															
Cat. No.	1763	1771	1772	1773	1779	1774	1763	1775	1774	1777	1777	1782	1782	1778	1778
boring Ø x L in mm	17.5x62	17x84	30x84	17x78	26.5x72	30x80	17.5x62	26.5x70	30x80	38.5x80	38.5x80	62x111	62x111	62x111	62x111
tubes per rotor	52	36	16	36	20	16	52	24	16	8	8	4	4	4	4
max. RCF ²⁾	4,668	4,863	4,863	4,696	4,528	4,752	4,668	4,807	4,752	4,807	4,807	4,863	4,863	4,863	4,863
radius in mm	167	174	174	168	162	170	167	172	170	172	170	174	174	174	174
run-up in sec	41														
run-down in sec	 27  550														
temperature in °C ¹⁾	0														

capacity in ml	200	225	250	290
Ø x L in mm	60x130	61x137	61x122	62x137
Cat. No.	Nunc®	Falcon®	5127	-
lid with bio-containment ⁵⁾ Cat. No. 1751   carrier Cat. No. 1752				
				
Cat. No.	1778	1782	1769	
boring Ø x L in mm	62x111	62x111	62x100	
tubes per rotor	4	4	4	
max. RCF ²⁾	4,863	4,863	4,863	
radius in mm	174	174	174	
run-up in sec	41			
run-down in sec	 27  550			
temperature in °C ¹⁾	0			

¹⁰⁾ The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 106 mm.

ROTORS AND ACCESSORIES

Swing-out rotor, 4-place



± 90°

$n = 4,600 \text{ min}^{-1}$
max. RCF 3,832

illustrated with carriers 1430 and lids 1382
with bio-containment⁵⁾

Cat. No. (without carriers) 1724

capacity in ml	1.5	2.0	1	3	5	6	7	9	15	25	50	85	100
Ø x L in mm	11x38	11x38	6x45	10x60	12x75	12x82	12x100	14x100	17x100	24x100	34x100	38x106	44x100
Cat. No.	2078	0536	Rhesus	-	0553²⁾	0501²⁾	0578²⁾	0500²⁾	0518²⁾	0519²⁾	0521²⁾	0549	0526²⁾
lid with bio-containment ⁵⁾ Cat. No. 1382													
carrier Cat. No. 1430													
Cat. No.	1351	1339	1343	1383	1329	1330	1331	1396	0761				
boring Ø x L in mm	11.2x38	6.5x34	10.5x43	13.4x48	17.6x91	25.2x87	35.2x87	38.5x92	45.6x98				
tubes per rotor	20	108	36	20	16	4							
max. RCF ²⁾	3,549	3,738	3,785	3,690	3,667	3,525	3,501	3,761	3,690				
radius in mm	150	158	160	156	155	149	148	159	156				
run-up in sec	16												
run-down in sec	15 232												
temperature in °C ¹⁾	-5												

capacity in ml	1.1–1.4	2.6–2.9	2.7–3	4–5.5	4.5–5	4.9	7.5–8.2	9–10	10	1.6–5	4–7	4–7	8.5–10
Ø x L in mm	8x66	13x65	11x66	15x75	11x92	13x90	15x92	16x92	15x102	13x75	13x100	16x75	16x100
Cat. No.	blood collection/urine tubes												
lid with bio-containment ⁵⁾ Cat. No. 1382													
carrier Cat. No. 1430													
Cat. No.	1457	1383	1459	1383	1459	1329	1329⁴⁾	1383	1348				
boring Ø x L in mm	9x47	13.4x48	15.6x47	13.4x48	15.6x47	17.6x91	13.4x48	16.5x56					
tubes per rotor	28	20	16	20	16	16	20	16					
max. RCF ²⁾	3,714	3,690	3,714	3,690	3,714	3,667	3,832	3,690					
radius in mm	157	156	157	156	157	155	162	156					
run-up in sec	16												
run-down in sec	15 232												
temperature in °C ¹⁾	-5												

¹⁾ Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be reached 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.

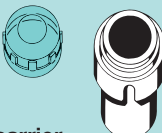
³⁾ When using these tubes, carrier 1430 cannot be closed with lid 1382.

ROTORS AND ACCESSORIES



illustrated with carriers 1430 and lids 1382
with bio-containment⁵⁾

Swing-out rotor Cat. No. (without carriers) 1724

capacity in ml	15	15	30	50	12	25	30	50	10	30	50	85	30
Ø x L in mm	17 x 120	17 x 120	25 x 110	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	44 x 105
Cat. No.	0509	0509	-	0513	-					0545	0546	0547	0534 ⁶⁾
lid with bio-containment ⁵⁾ Cat. No. 1382  carrier Cat. No. 1430													 chrome bath tube
													 rubber insert
Cat. No.	1356	1347	1365	1384	6311	1363	1365	6318	1348	4417	4416	1396	0765
boring Ø x L in mm	17 x 107	17 x 90	26 x 80	30 x 90	17 x 80	26 x 72	26 x 80	29.5 x 80	16.5 x 56	26 x 83	29 x 93	38.5 x 92	45.6 x 98
tubes per rotor	12	4				4			16	4			
max. RCF ²⁾	3,832				3,407		3,832		3,690	3,549	3,785	3,761	3,667
radius in mm	162				144		162		156	150	160	159	155
run-up in sec	16												
run-down in sec	15 232												
temperature in °C ¹⁾	-5												

capacity in ml	1.5	2.0	1	3	5	6	7	9	15	25	50	100
Ø x L in mm	11 x 38	11 x 38	6 x 45	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
Cat. No.	2078	0536	Rhesus	-	0553 ²⁾	0501 ²⁾	0578 ²⁾	0500 ²⁾	0518 ²⁾	0519 ²⁾	0521 ²⁾	0526 ²⁾
 carrier Cat. No. 1425												
												
Cat. No.	1444	1432	1433	1438	1434	1434	1431	1431	1435	1436	1437	1437
boring Ø x L in mm	11.5 x 38	6.5 x 34	10.5 x 40	13.4 x 50	12.7 x 60	12.7 x 60	17.5 x 84	17.5 x 84	25.5 x 84	35.5 x 84	45.5 x 86	45.5 x 86
tubes per rotor	36	144	56	28	48	48	28	28	8	4	4	4
max. RCF ²⁾	3,572	3,643	3,596								3,501	3,501
radius in mm	151	154	152								148	148
run-up in sec	16											
run-down in sec	 15  232											
temperature in °C ¹⁾	-5											

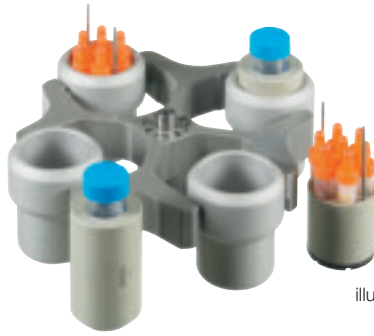
⁴⁾ Please remove the inserts.

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

⁶⁾ A rubber stopper for closing the tube is available under Cat. No. 0535.

The tube may not be centrifuged with the stopper. The stopper only serves to close the tube for agitating or mixing.

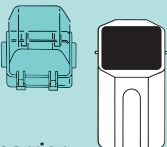
ROTORS AND ACCESSORIES



illustrated with carriers 1425

Swing-out rotor Cat. No. (without carriers) 1724

capacity in ml	2.6–2.9	2.7–3	4–5.5	4.5–5	4.9	7.5–8.2	9–10	1.6–5	4–7	4–7	8.5–10	15	50	50	
Ø x L in mm	13x65	11 x66	15x75	11x92	13x90	15x92	16x92	13x75	13x100	16x75	16x100	17x120	29x115	29x115	
Cat. No.	blood collection/urine tubes											0509	0513	-	
 carrier Cat. No. 1425															
															
Cat. No.	1438	1441	1438	1431	1439	1438	1441	1736	1443	1737					
boring Ø x L in mm	13.4x50	16.5x50	13.4x50	17.5x84	17x45	13.4x50	16.5x50	17x90	30x90						
tubes per rotor	28					16	28					16	4		
max. RCF ²⁾	3,596					3,596	3,596					3,738	3,738		
radius in mm	152					152	152					158	158		
run-up in sec	16														
run-down in sec	 15  232														
temperature in °C ¹⁾	-5														

capacity in ml	1.5/2.0		1	3	5	6	7	9	15	25	50
Ø x L in mm	11 x 38		6 x 45	10 x 60	12 x 75	12 x 82	12 x 100	14 x 100	17 x 100	24 x 100	34 x 100
Cat. No.	2078/0536	-	Rhesus	-	0553 ²⁾	0501 ²⁾	0578 ²⁾	0500 ²⁾	0518 ²⁾	0519 ²⁾	0521 ²⁾
lid Cat. No. 1421  carrier Cat. No. 1427											
											
Cat. No.	5277	5273	1357	1327	1732	5229	5230	5237	5231	5232	5233
boring Ø x L in mm	11.5 x 38	13.7 x 38	6.5 x 23	10.5 x 23	13.4 x 58	12.5 x 44	12.4 x 87	15 x 73	17.8 x 87	25.5 x 87	35.5 x 87
tubes per rotor	36	48	120	48	32	48	48	24	24	8	4
max. RCF ²⁾	3,761	3,714	3,738	3,714	3,690	3,714	3,620				
radius in mm	159	157	158	157	156	157	153				
run-up in sec	16										
run-down in sec	 15  232										
temperature in °C ¹⁾	-5										

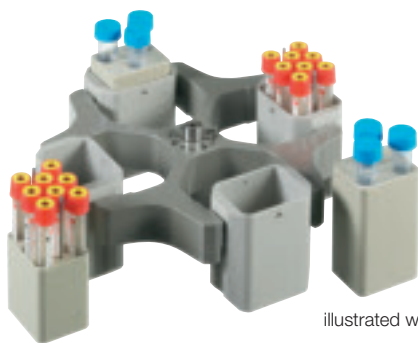
¹⁾ Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be reached by reducing the speed.

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.

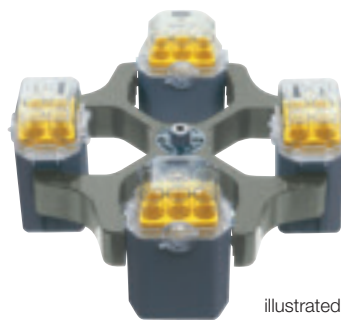
³⁾ When using these tubes, carrier 1427 cannot be closed with lid 1421.

⁴⁾ Please remove the inserts.

ROTORS AND ACCESSORIES

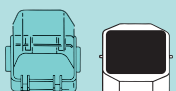


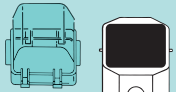
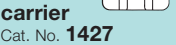
illustrated with carriers 1427



illustrated with carriers 1427
and lids 1421

Swing-out rotor Cat. No. (without carriers) 1724

capacity in ml	1.1–1.4	2.6–2.9	2.7–3	4–5.5	4.5–5	4.9	7.5–8.2	9–10	10	1.6–5	4–7	4–7	8.5–10
Ø x L in mm	8x66	13x65	11x66	15x75	11x92	13x90	15x92	16x92	15x102	13x75	13x100	16x75	16x100
Cat. No.	blood collection/urine tubes												
lid Cat. No. 1421													
carrier Cat. No. 1427													
Cat. No.	5278	1732	5229	5279	5230	1732	5279	5271⁴⁾	5279	1732	5271	5231	
boring Ø x L in mm	9x41	13.4x58	12.5x44	15.6x41	12.4x87	13.4x58	15.6x41	17x66	15.6x41	13.4x58	17x66	17.8x87	
tubes per rotor	48	32	48	20	48	32	20			32	20	24	
max. RCF ²⁾	3,761	3,690	3,714	3,761	3,620	3,690	3,761	3,643	3,761	3,690	3,643	3,620	
radius in mm	159	156	157	159	153	156	159	154	159	156	154	153	
run-up in sec	16												
run-down in sec	 15  232												
temperature in °C ¹⁾	-5												

capacity in ml	15	30	50	25	30	50	suspension for cyto accessories
Ø x L in mm	17x120	25x110	29x115	25x90	25x110	29x115	
Cat. No.	0509	-	0513	-	-	-	cyto chambers⁷⁾
lid Cat. No. 1421							
carrier Cat. No. 1427							
Cat. No.	1733	1731	5276	1731	5233	1452	
boring Ø x L in mm	17x90	25.5x72	30x90	25.5x72	35.5x87	-	
tubes per rotor	12	8	4	8	4	4	
max. RCF ²⁾	3,809	3,643	3,714	3,643	3,620	2,721	
radius in mm	161	154	157	154	153	115	
run-up in sec	16						
run-down in sec	 15  232						
temperature in °C ¹⁾	-5						

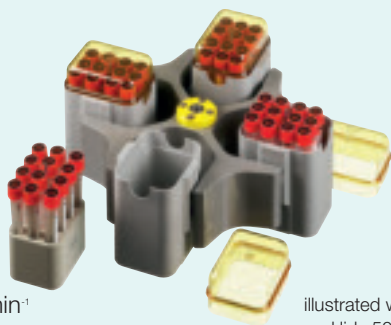
⁷⁾ Please ask for our detailed cyto brochure.

ROTORS AND ACCESSORIES

Swing-out rotor, 4-place

↻ 90°

$n = 4,000 \text{ min}^{-1}$
max. RCF 3,095



illustrated with carriers 5051
and lids 5053

Cat. No. (without carriers) 1798

capacity in ml	1.5/2.0		3	5	6	7	9	15	25	50	100	100
Ø x L in mm	11 x 38		10x60	12x75	12x82	12x100	14x100	17x100	24x100	34x100	40x115	44x100
Cat. No.	-	2078/0536	-	0553 ²⁾	0501 ²⁾	0578 ²⁾	0500 ²⁾	0518 ²⁾	0519 ²⁾	0521 ²⁾	0523 ²⁾	0526 ²⁾
lid Cat. No. 5053  carrier Cat. No. 5051 												
												
Cat. No.	5257	5281	5267	5227		5247 ³⁾	5264	5248 ³⁾	5242	5243	5249	5262
boring Ø x L in mm	12.5x42	11.5x50	11x44	12.5x42		12.5x86	16x50	17.5x86	26x86	36x86	42x86	45.5x86
tubes per rotor	160	64	80	80		80	48	48	20	8	4	
max. RCF ²⁾ upper/lower	1,950/2,826	2,826	2,737	2,773		2,755	2,773	2,755				
radius in mm upper/lower	109/158	158	153	155		154	155	154				
run-up in sec	20											
run-down in sec	14 198											
temperature in °C ¹⁾	-8											

capacity in ml	1.1–1.4	2.6–2.9	2.7–3	4–5.5	4.5–5	4.9	7.5–8.2	9–10	10	1.6–5	4–7	4–7	8.5–10
Ø x L in mm	8x66	13x65	11x66	15x75	11x92	13x90	15x92	16x92	15x102	13x75	13x100	16x75	16x100
Cat. No.	blood collection/urine tubes												
lid Cat. No. 5053  carrier Cat. No. 5051 													
													
Cat. No.	5267	5268	5227	5264	5227	5268	5264	5258		5268	5264	5248	
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		13.5 x 52		16 x 50	17.5 x 86
tubes per rotor	80	48	80	48	80	48		44		48			
max. RCF ²⁾	2,737	2,808	2,773			2,808	2,773	2,755		2,808		2,773	2,755
radius in mm	153	157	155			157	155	154		157		155	154
run-up in sec	20												
run-down in sec	 14  198												
temperature in °C ¹⁾	-8												

¹⁾ Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be reached 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⁾ When using these tubes, carrier 5051 cannot be closed with lid 5053.

⁴⁾ Please remove the inserts.

ROTORS AND ACCESSORIES



illustrated with carriers 5092 and lids 5093
with bio-containment⁵⁾

Swing-out rotor Cat. No. (without carriers) 1798

capacity in ml	15	30	50	12	30	50	suspension for cyto accessories
Ø x L in mm	17x120	25x110	29x115	17x100	25x110	29x115	
Cat. No.	0509	-	0513	-	-	-	cyto chambers ⁷⁾
lid Cat. No. 5053							
carrier Cat. No. 5051							
Cat. No.	6306	5266	5259	6306	5266	5243	5280
boring Ø x L in mm	17x90	26x86	30x86	17x90	26x86	36x86	-
tubes per rotor	28	20	8	28	20	8	8
max. RCF ²⁾ upper/lower	2,898	2,755	2,826	2,898	2,755	2,755	1,735/2,737
radius in mm upper/lower	162	154	158	162	154	154	97/153
run-up in sec	20						
run-down in sec	 14  198						
temperature in °C ¹⁾	-8						

capacity in ml	5	6	7	10	15	25	50	100	100	250	15	30	50	12	25
Ø x L in mm	12x75	12x82	12x100	17x70	17x100	24x100	34x100	44x100	40x115	65x115	17x120	25x110	29x115	17x100	25x90
Cat. No.	0553 ²⁾	0501 ²⁾	0578 ²⁾	2079	0518 ²⁾	0519 ²⁾	0521 ²⁾	0526 ²⁾	0523 ²⁾	0530 ²⁾	0509	-	0513	-	
lid with bio-containment ⁵⁾ Cat. No. 5093															
carrier Cat. No. 5092															
Cat. No.	5128	5120	5136	5122	5124	5125	5126	1791	5129 ⁴⁾	5122	5123	5121	5134		
boring Ø x L in mm	12.8x45	12.8x82	17.5x60.7	25.5x82	35.5x85	45.5x85	42x85	66x103	17x85	25.5x82	30x85	17.5x82	26x73		
tubes per rotor	48	32	16	4	4	4	4	28	16	8	28	12			
max. RCF ²⁾	3,005	2,952	2,898	2,952	3,095	3,095	2,898	3,095	3,005	2,826					
radius in mm	168	165	162	165	173	173	162	173	168	158					
run-up in sec	20														
run-down in sec	 14  221														
temperature in °C ¹⁾	-8														

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

⁷⁾ Please ask for our detailed cyto brochure.

⁸⁾ With Cat. No. 5247-91 or 5248-91 these adapters can also be ordered with a decanting aid.

ROTORS AND ACCESSORIES

Swing-out rotor, 10-place



± 45°

$n = 4,600 \text{ min}^{-1}$
max. RCF 3,856

Swing-out rotor 1798

Cat. No. (with carriers) 1717

capacity in ml	30	50	10	250	290	1.1–1.4	2.6–2.9	2.7–3	4–5.5	4.5–5	4.9	7.5–8.2	9–10	10	1.6–5
Ø x L in mm	25x110	29x115	16x80	61x122	62x137	8x66	13x65	11x66	15x75	11x92	13x90	15x92	16x92	15x102	13x75
Cat. No.			-	5127	-	blood collection/urine tubes									
lid with bio-containment ⁵⁾ Cat. No. 5093															
carrier Cat. No. 5092															
Cat. No.	5122	5135	5136	6319		5138	5136	5120	5137	5136	5138				
boring Ø x L in mm	25.5x82	30x99	17.5x60.7	66x103		12.8x54.5	17.5x60.7	12.8x82	13.5x60.7	17.5x60.7					
tubes per rotor	16	8	32	4		48	32	48	32	32					
max. RCF ²⁾	2,898	3,023	2,952	3,095		2,540	2,952	3,005	2,952	2,952					
radius in mm	162	169	165	173		142	165	168	165	165					
run-up in sec	20														
run-down in sec	14 221														
temperature in °C ¹⁾	-8														

capacity in ml	4–7	4–7	4–7	8	8.5–10
Ø x L in mm	16x75	16x75	13x100	16x125	16x100
Cat. No.					
lid with bio-containment ⁵⁾ Cat. No. 5093					
carrier Cat. No. 5092					
Cat. No.	5136	5121-93	5120	5121⁴⁾	5136
boring Ø x L in mm	17.5x60.7	17.5x52	12.8x82	17.5x82	17.5x60.7
tubes per rotor	32	28	48	28	32
max. RCF ²⁾	2,952	3,005	3,005	3,059	2,952
radius in mm	165	168	168	171	165
run-up in sec	20				
run-down in sec	14 221				
temperature in °C ¹⁾	-8				

capacity in ml	15	50
Ø x L in mm	17x120	29x115
Cat. No.	0509	0513
rotor Cat. No. 1717		
Cat. No.	1462-A	-
boring Ø x L in mm	17x84	38.4x89
tubes per rotor	10	
max. RCF ²⁾	3,856	
radius in mm	163	
run-up in sec	16	16
run-down in sec	15 430	15 206
temperature in °C ¹⁾	-9	-9

¹⁾ Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be reached 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⁾ When using these tubes, carrier 5092 cannot be closed with lid 5093.

⁴⁾ Please remove the inserts.

ROTORS AND ACCESSORIES

Swing-out rotor, 6-place



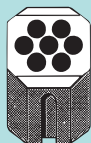
↗ 90°

n = 4,000 min⁻¹
max. RCF 2,808

illustrated with carriers 1742

Cat. No. (without carriers) **1726**

capacity in ml	5		6	7	9	15	20	25	45	50		8.5–10	30	suspensions for cyto accessories	
Ø x L in mm	12 x 75		12 x 82	12 x 100	14 x 100	17 x 100	21 x 100	24 x 100	31 x 100	34 x 100		16 x 100	26 x 95		
Cat. No.	0553 ²⁾		0501 ²⁾	0578 ²⁾	0500 ²⁾	0518 ²⁾	-	-	-	0521 ²⁾		blood coll. tube	0545	cyto chambers ⁷⁾	
 rotor Cat. No. 1726															
	 with decanting aid		 with decanting aid	 with decanting aid											
Cat. No.	1369-91	1372	1369-92	1369-92	1370	1369	1346	1745	1345	1746	1308	1369	1745	1660	1680
boring Ø x L in mm	11.5 x 64.4	13.5 x 65	11.5 x 71.5	11.5 x 71.5	14.6 x 74	17.6 x 74	21.5 x 74	26 x 78	32 x 74	35 x 78	35.7 x 88.2	17.6 x 74	26 x 78	-	
tubes per rotor	24	102	24	24	30	24	12		6			24	12	6	
max. RCF ²⁾	2,576	2,522	2,665	2,665			2,719	2,808	2,719	2,808	2,647	2,665	2,808	2,003	1,825
radius in mm	144	141	149	149			152	157	152	157	148	149	157	112	102
run-up in sec	16														
run-down in sec	 22  210														
temperature in °C ¹⁾	-6													-10	

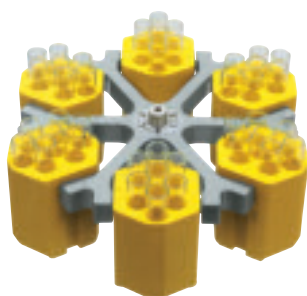
capacity in ml	15	2.6–2.9	4–5.5	7.5–8.2	9–10	10	1.6–5	4–7	8.5–10	15
Ø x L in mm	17 x 100	13 x 65	15 x 75	15 x 92	16 x 92	15 x 102	13 x 75	16 x 75	16 x 100	17 x 120
Cat. No.	0518 ²⁾	blood collection/urine tubes								0509
 carrier Cat. No. 1742										
						9) 				9) 
Cat. No.	-	0716		-	-		0716		-	
boring Ø x L in mm	17.6 x 78									
tubes per rotor	42	42		42	18		42		42	18
max. RCF ²⁾	2,808	2,683		2,808			2,683		2,808	
radius in mm	157	150		157			150		157	
run-up in sec	16									
run-down in sec	 22  210									
temperature in °C ¹⁾	-6									

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

⁷⁾ Please ask for our detailed cyto brochure.

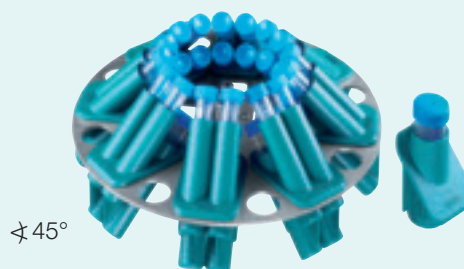
⁹⁾ Carrier must be loaded as illustrated.

ROTORS AND ACCESSORIES



illustrated with carriers 1742

Angle rotor, 8-place



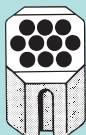
± 45°

$n = 4,500 \text{ min}^{-1}$
max. RCF 3,283

Swing-out rotor Cat. No. (without carriers) 1726

Cat. No. (without adapters) 1721

capacity in ml	1.5	2.0	1	3	4
Ø x L in mm	11 x 38		6 x 45	10 x 60	12 x 60
Cat. No.	2078	0536	Rhesus	–	–
 carrier Cat. No. 1366					
					
Cat. No.	5277	1357	1327	1326	
boring Ø x L in mm	11,5 x 38		6,5 x 23	10,5 x 23	12,5 x 44
tubes per rotor	54		180	72	
max. RCF ²⁾	2,325		2,308	2,290	
radius in mm	130		129	128	
run-up in sec	16				
run-down in sec	 22  210				
temperature in °C ¹⁾	-6				

capacity in ml	9	1.1–1.4	4.5–5	4.9	4–7
Ø x L in mm	14x100	8x66	11x92	13x90	13x100
Cat. No.	0500 ²⁾	blood collection tubes			
 carrier Cat. No. 1741					
	 rubber insert	 9)			
Cat. No.	0701	-	-	-	-
boring Ø x L in mm	14.6x78				
tubes per rotor	60	36	60	60	
max. RCF ²⁾	2,773	2,808			2,808
radius in mm	155	157			157
run-up in sec	16				
run-down in sec	 22  210				
temperature in °C ¹⁾	-6				

capacity in ml	5	1.1–1.4	2.6–2.9	2.7–3	9–10	1.6–5	15	15	50	12	50	50	
Ø x L in mm	12x75	8x66	13x65	11x66	16x92	13x75	17x100	17x120	29x115	17x100	29x115	29x107	
Cat. No.	0553 ²⁾	blood/urine tubes						0518 ²⁾	0509	0513	-	-	0546
 rotor Cat. No. 1721													
	+ 1054-A 	+ 1054-A 			+ 0716 	+ 1054-A 	+ 0716 	+ E 2109 	+ E 2110 	+ 0716 			
Cat. No.	1467	1467			1467	1467	1467	1467	1468	1467	1468		
boring Ø x L in mm	13.5x60	13.5x60			17.4x91	13.5x60	17.4 x 91		30.2x92	17.4 x 91	30.2 x 92		
tubes per rotor	32	32			32	32	32		8	32	8		
max. RCF ²⁾	2,762	2,762			3,215	2,762	3,215	3,283	3,147	3,215	3,147		
radius in mm	122	122			142	122	142	145	139	142	139		
run-up in sec	30												
run-down in sec	 31  640												
temperature in °C ¹⁾	- 11												

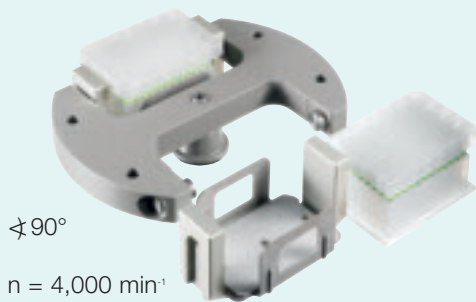
¹⁾ Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be reached by reducing the speed.

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.

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

ROTORS AND ACCESSORIES

Swing-out rotor, 2-place



↗ 90°

n = 4,000 min⁻¹
max. RCF 2,397

Cat. No. (without carriers) **1760**

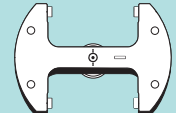
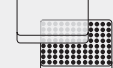
Swing-out rotor, 6-place

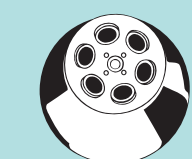


↗ 45°

ROTINA 380 R n = 11,000 min⁻¹, max. RCF 16,369
ROTINA 380 n = 10,000 min⁻¹, max. RCF 13,528

Cat. No. **1720**

D x W x H in mm	86 x 128 x 15/17.5		86 x 128 x 22	86 x 128 x 44.5	86 x 128 x 46	86 x 128 x 83	59 x 84 x 11	82 x 124 x 20	-
Cat. No.	MTP		CP	DWP	MS	QP	Microtest Plate (Terasaki)	PCR Plate, 96 wells	PCR strips
 rotor Cat. No. 1760									
Cat. No.	 1753							 1753 + 1469	
boring Ø x L in mm	-								
plates/strips per rotor	10	8	6	2	2	2	4	2	24 x 8
max. RCF ²⁾	2,397								
radius in mm	134								
run-up in sec	35								
run-down in sec	 35  550								
temperature in °C ¹⁾	-8								

capacity in ml	1.5	2.0	15	25	50	75	85	7.5–8.2	9–10	8.5–10
Ø x L in mm	11 x 38		17 x 100	24 x 100	34 x 100	35 x 105	38 x 106	15 x 92	16 x 92	16 x 100
Cat. No.	2078	0536	0518 ²⁾	0519 ²⁾	0521 ²⁾	0548	0549	blood/urine tubes		
 rotor Cat. No. 1720										
Cat. No.	1449	1451	1451	1447	1463	-	-	1451	1451	1451
boring Ø x L in mm	11.4 x 39		17.5 x 92	26 x 85	35 x 89	38.4 x 89	38.4 x 89	17.5 x 92	17.5 x 92	17.5 x 92
tubes per rotor	24		6	6	6	6	6	6	6	6
max. RCF ²⁾ classic/cooled	12,969/15,692		12,745/15,422	12,410/15,016	13,304/16,098	13,528/16,369	13,528/16,369	12,745/15,422	12,745/15,422	12,745/15,422
radius in mm	116		114	111	119	121	121	114	114	114
run-up in sec classic/cooled	35/63									
run-down in sec classic/cooled	 36/60  780/960									
temperature in °C ¹⁾	+1									

⁹⁾ Carrier must be loaded as illustrated.

ROTORS AND ACCESSORIES

Angle rotor, 6-place



± 45°

with bio-containment⁵⁾

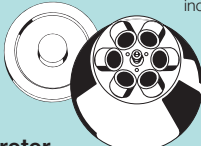
ROTINA 380 R $n = 11,000 \text{ min}^{-1}$, max. RCF 16,504

ROTINA 380 $n = 10,000 \text{ min}^{-1}$, max. RCF 13,640

Angle rotor 1720

Cat. No. 1792

capacity in ml	15	50	10	30	50	85
Ø x L in mm	17x120	29x115	16x80	26x95	29x107	38x106
Cat. No.	0509	0513	-	0545	0546	0547
 rotor Cat. No. 1720						
						-
Cat. No.	1466	1454	1448	1447	1446	-
boring Ø x L in mm	17x106	29.8x97	16.5x74	26x85	29x92	38.4x89
tubes per rotor	6		12	6		
max. RCF ²⁾ classic/cooled	13,081/15,828	12,745/15,422	12,410/15,016	12,410/15,016	12,969/15,692	13,528/16,369
radius in mm	117	114	111	111	116	121
run-up in sec classic/cooled	35/63					
run-down in sec classic/cooled	 36/60  780/960					
temperature in °C ¹⁾	+1					

capacity in ml	1.5	2.0	15	25	50	75	85	7.5–8.2	9–10	10	8.5–10
Ø x L in mm	11 x 38		17 x 100	24 x 100	34 x 100	35 x 105	38 x 106	15 x 92	16 x 92	15 x 102	16 x 100
Cat. No.	2078	0536	0518 ²⁾	0519 ²⁾	0521 ²⁾	0548	0549	blood/urine tubes			
lid with bio-containment⁵⁾ incl.  rotor Cat. No. 1792											
											
Cat. No.	1449		1451	1447	1463		-	1451			
boring Ø x L in mm	11.4 x 39		17.5 x 92	26 x 85	35 x 89		38.2 x 89.6	17.5 x 92			
tubes per rotor	24		6								
max. RCF ²⁾ classic/cooled	13,081/15,828		12,857/15,557	12,522/15,151	13,640/16,504		13,640/16,504	12,857/15,557			
radius in mm	117		115	112	122		122	115			
run-up in sec classic/cooled	35/57										
run-down in sec classic/cooled	 36/59  930/1,040										
temperature in °C ¹⁾	+4										

¹⁾ Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be reached 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.

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

ROTORS AND ACCESSORIES

Angle rotor, 30-place



±45°

n = 15,000 min⁻¹
max. RCF 24,400

with bio-containment⁵⁾

Cat. No. 1789

Drum rotor, 6-place



n = 15,000 min⁻¹
max. RCF 18,866

illustrated with
adapters 1377

Cat. No. (without adapters) **1711**

Angle rotor, 8-place

rotor only for ROTINA 380 R



±25°

n = 14,000 min⁻¹
max. RCF 22,789

Cat. No. 1797

capacity in ml	15	50	10	30	50	85	94
Ø x L in mm	17 x 120	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102
Cat. No.	0509	0513	-	0545	0546	0547	0538¹⁰⁾
lid with bio-containment ⁵⁾ incl.							
rotor Cat. No. 1792							
Cat. No.	1466	1454	1448	1447	1446	-	
boring Ø x L in mm	17 x 106	29.8 x 97	16.5 x 74	26 x 85	29 x 92	38.2 x 89.6	
tubes per rotor	6		12	6			
max. RCF ²⁾ classic/cooled	13,081/15,828	13,304/16,098	12,857/15,557	12,522/15,151	13,081/15,828	13,640/16,504	
radius in mm	117	119	115	112	117	122	
run-up in sec classic/cooled	55/57						
run-down in sec classic/cooled	☐ 57/59 ☐ 930/1,040						
temperature in °C ¹⁾	+4						

capacity in ml	50
Ø x L in mm	29 x 115
Cat. No.	0513
lid incl.	
rotor Cat. No. 1797	
Cat. No.	-
boring Ø x L in mm	30 x 103
tubes per rotor	8
max. RCF ²⁾	22,789
radius in mm	104
run-up in sec	55
run-down in sec	☐ 57 ☐ 1,150
temperature in °C ¹⁾	+13

capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	
Cat. No.	-				2078	0536
lid with bio-containment ⁵⁾ incl.						
rotor Cat. No. 1789						
Cat. No.	2024	2023	2031¹¹⁾	-		
boring Ø x L in mm	6 x 40	8 x 40	10.2 x 19	11.2 x 40.9		
tubes per rotor	30					
max. RCF ²⁾	24,400					
radius in mm	97					
run-up in sec	19					
run-down in sec	☐ 17 ☐ 241					
temperature in °C ¹⁾	+4					

capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	
Cat. No.	-				2078	0536
lid incl.						
rotor Cat. No. 1711						
Cat. No.	1378	1379	1377			
boring Ø x L in mm	6 x 40	8.4 x 43	10.8 x 37			
tubes per rotor	192	126	60			
max. RCF ²⁾	18,866					
radius in mm	75					
run-up in sec	33					
run-down in sec	☐ 35 ☐ 368					
temperature in °C ¹⁾	+2					

¹⁰⁾ The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 106 mm.

¹¹⁾ For centrifugation at high speeds, we recommend to use form-fitting, phenol-resistant adapters 2031.

TECHNOLOGY	ROTINA 380		ROTINA 380 R	
Benchtop centrifuge, without rotor	classic		cooled	
Power supply ^{*)}	208 – 240 V 1 ~	110 – 127 V 1 ~	208-240 V 1~/220-240 V 1~	110 – 127 V 1 ~
Frequency	50 – 60 Hz		50/60 Hz	60 Hz
Consumption	700 VA	850 VA	1,300 VA	1,400 VA
Emission	EN 55011 group 1, class B, EN 61000-3-2, EN 61000-3-3	FCC class B	EN 55011 group 1, class B, EN 61000-3-3	FCC class B
Immunity	EN 61000-6-2	-	EN 61000-6-2	-
 Max. capacity	4 x 290 ml			
Max. RPM (speed)	15,000 min ⁻¹			
Max. RCF	24,400			
Running time	1 sec – 99 h : 59 min : 59 sec, ∞ continuous run, short cycle mode (impulse key)			
Dimensions (HxWxD)	418 x 457 x 600 mm		418 x 457 x 750 mm	
Weight	approx. 53 kg		approx. 82 kg	
Refrigeration				
Temperature control, infinitely variable	-		from -20 to +40 °C	
Cat. No.	1701	1701-01	1706	1706-01

^{*)} Other voltages on request.



Hettich centrifuges comply with all relevant EU standards in effect and conform to the European level of quality and safety for medical devices. Evidence is provided by national and international test marks such as IEC 61010 or the CE conformity. The ISO 9001:2000 and ISO 13485:2003 certificates accredited to the company bear witness to the extreme care and responsibility Hettich puts into the manufacturing of centrifuges and their accessories.

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