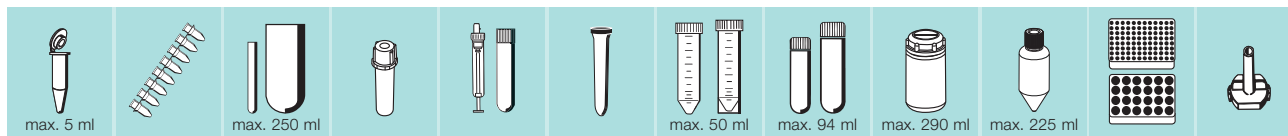


# ROTINA 380 / 380 R



## High-performance centrifuges deliver separation technology to satisfy the highest standards

Efficiency and safety are key requisites in today's laboratories – whether for research or routine tasks. The ROTINA 380 and 380R centrifuge models are ideally equipped to take on these challenges. Samples with capacities of up to 4x290 ml can be processed with a max. RCF of 4,863. Should higher speeds be required, angle rotors with a max. RCF of 16,504 for 50 ml tubes or 24,400 for microlitre tubes are available.





ROTINA 380

### TECHNOLOGY

#### ROTINA 380

#### ROTINA 380 R<sup>>1</sup>

Benchtop centrifuge, without rotor	classic		cooled	
	Power supply <sup>1)</sup>	200–240 V 1 ~	100–127 V 1 ~	200–240 V 1 ~
Frequency	50–60 Hz		50–60 Hz	60 Hz
Consumption	650 VA	700 VA	1,300 VA	1,400 VA
Emission, Immunity	EN/IEC 61326-1, class B	FCC class B	EN/IEC 61326-1, class B	FCC class B
 Max. capacity	4 x 290 ml			
 Max. RPM (speed)	15,000 min <sup>-1</sup>			
Max. RCF	24,400			
Running time	1 sec–99 h : 59 min : 59 sec, ∞ continuous run, short cycle mode (impulse key)			
Dimensions (HxWxD)	418x457x600 mm		418x457x750 mm	
Weight	approx. 51 kg	approx. 58.5 kg	approx. 81 kg	approx. 88.5 kg
<b>Refrigeration</b>				
Temperature control, infinitely variable	-		from -20 to +40 °C	
<b>Cat. No.</b>	<b>1701</b>	<b>1701-01</b>	<b>1706</b>	<b>1706-01</b>

<sup>1)</sup> Other voltages on request.

<sup>>1)</sup> For a list of further versions of this model, please refer to page 14.

**Swing-out rotor, 4-place**



∠ 90°

n = 5,000 min<sup>-1</sup>  
max. RCF 4,863

illustrated with carriers 1752 and lids 1751  
with bio-containment<sup>5)</sup>

**Cat. No. (without carriers) 1754**

capacity in ml	1.5	2.0	3	4	5	6	7	9	10	15	20	25	45	50	75
Ø x L in mm	11x38		10x60	12x60	12x75	12x82	12x100	14x100	17x70	17x100	21x100	24x100	31x100	34x100	35x105
<b>Cat. No.</b>	<b>2078</b>	<b>0536</b>	-		<b>0553<sup>2)</sup></b>	<b>0501<sup>2)</sup></b>	<b>0578<sup>2)</sup></b>	<b>0500<sup>2)</sup></b>	<b>2079</b>	<b>0518<sup>2)</sup></b>	-	<b>0519<sup>2)</sup></b>	-	<b>0521<sup>2)</sup></b>	<b>0548</b>
lid with bio-containment <sup>3)</sup> Cat. No. 1751															
carrier Cat. No. 1752															
<b>Cat. No.</b>	<b>1761</b>	<b>1761</b>			<b>1762-A</b>			<b>1763-A</b>		<b>1764</b>	<b>1765</b>				
boring Ø x L in mm	11.2x39.5		11.2x39.5		12.5x56			17.5x62		25.5x81		35.5x81			
tubes per rotor	144		72		96			52		24		12			
max. RCF <sup>2)</sup> upper/lower	3,494 / 4,779		4,779		4,668										
radius in mm upper/lower	125 / 171		171		167										
run-up in sec	42														
run-down in sec, braked	27														
temperature in °C <sup>1)</sup>	0														

capacity in ml	94	100	100	250	1.1-1.4	2.6-3.4	2.7-3	4-5.5	4.5-5	4.5-5	4.9	4.9	7.5-8.5	9-10	10
Ø x L in mm	38x102	40x115	44x100	65x115	8x66	13x65	11x66	15x75	11x92	11x92	13x90	13x90	15x92	16x92	15x102
<b>Cat. No.</b>	<b>0549</b>	<b>0523<sup>2)</sup></b>	<b>0526<sup>2)</sup></b>	<b>0530<sup>2)</sup></b>	<b>blood collection/urine tubes</b>										
lid with bio-containment <sup>3)</sup> Cat. No. 1751															
carrier Cat. No. 1752															
<b>Cat. No.</b>	<b>1777</b>	<b>1767</b>	<b>1766</b>	<b>1768</b>	<b>1781</b>	<b>1783-A</b>	<b>1762-A</b>	<b>1763-A</b>	<b>1762-A</b>	<b>1787</b>	<b>1783-A</b>	<b>1787</b>	<b>1763-A</b>		
boring Ø x L in mm	38.5x80	41x97	45x87	66x104.5	9x49	13.5x54	12.5x56	17.5x62	12.5x56	13.2x72	13.5x54	13.2x72	17.5x62		
tubes per rotor	8	4	4	4	96	64	96	52	96	76	64	76	52		
max. RCF <sup>2)</sup>	4,807	4,640	4,640		4,668										
radius in mm	172	166	166		167										
run-up in sec	42														
run-down in sec, braked	27														
temperature in °C <sup>1)</sup>	0														

<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.

<sup>2)</sup> 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 <sup>2)</sup> is 4,000.

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



illustrated with carriers 1752 and lids 1751  
with bio-containment<sup>5)</sup>

### Swing-out rotor 1754

capacity in ml	1.6–5	4–7	4–7	4–7	8	8.5–10	5	15	50	12	25	30	50	50	10
Ø x L in mm	13x75	13x100	13x100	16x75	16x125	16x100	17x59	17x120	29x115	17x100	25x90	25x110	29x115	29x115	16x80
<b>Cat. No.</b>	<b>blood collection/urine tubes</b>						-	<b>0509</b>	<b>0513</b>	-				<b>0513</b>	-
lid with bio-containment <sup>5)</sup> Cat. No. 1751															
<b>carrier</b> Cat. No. 1752															
<b>Cat. No.</b>	<b>1783-A</b>	<b>1787</b>	<b>1763-A</b>		<b>1763-A</b>	<b>1738</b>	<b>1771-A</b>	<b>1772-A</b>	<b>1773</b>	<b>1779</b>	<b>1774-A</b>		<b>1763-A</b>		
boring Ø x L in mm	13.5x54	13.2x72	17.5x62		17.5x62	17x52	17x84	30x84	17x78	26.5x72		30x80		17.5x62	
tubes per rotor	64	76	52	12	52	32	36	16	36	20	16		52		
max. RCF <sup>2)</sup>	4,668					4,863			4,696	4,528		4,752		4,668	
radius in mm	167					174			168	162		170		167	
run-up in sec	42														
run-down in sec, braked	27														
temperature in °C <sup>1)</sup>	0														

capacity in ml	14	30	50	85	94	175	175	200	225	250	290	
Ø x L in mm	16.5x106	26x95	29x107	38x106	38x102	61x118	62x144	60x130	61x137	61x122	62x137	
<b>Cat. No.</b>	-	<b>0545</b>	<b>0546</b>	<b>0547</b>	<b>0538</b> <sup>13)</sup>	<b>Falcon</b> <sup>®</sup>	<b>Nalgene</b> <sup>®</sup>	<b>Nunc</b> <sup>®</sup>	<b>Falcon</b> <sup>®</sup>	<b>5127</b> <sup>28)</sup>	- <sup>28)</sup>	
lid with bio-containment <sup>5)</sup> Cat. No. 1751												
<b>carrier</b> Cat. No. 1752												
<b>Cat. No.</b>	<b>1763-A</b>	<b>1775</b>	<b>1774-A</b>	<b>1777</b>	<b>1777</b>	<b>1782</b>	<b>1778</b>	<b>1778</b>	<b>1782</b>	<b>1769</b>		
boring Ø x L in mm	17.5x62	26.5x70	30x80	38.5x80	38.5x80	62x111	62x111	62x111	62x111	62x100		
tubes per rotor	52	24	16	8	8	4						
max. RCF <sup>2)</sup>	4,668	4,807	4,752	4,807	4,807	4,863						
radius in mm	167	172	170	172	172	174						
run-up in sec	42											
run-down in sec, braked	27											
temperature in °C <sup>1)</sup>	0											

<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.

<sup>2)</sup> 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 <sup>2)</sup> is 4,000.

<sup>3)</sup> When using these tubes, carrier 1752 and 5051 cannot be closed with lid 1751 resp. 5053.

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

**Swing-out rotor, 4-place**



∠ 90°

n = 4,000 min<sup>-1</sup>  
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	11x38		10x60	12x75	12x82	12x100	14x100	17x100	24x100	34x100	40x115	44x100
<b>Cat. No.</b>	-	<b>2078/0536</b>	-	<b>0553<sup>2)</sup></b>	<b>0501<sup>2)</sup></b>	<b>0578<sup>2)</sup></b>	<b>0500<sup>2)</sup></b>	<b>0518<sup>2)</sup></b>	<b>0519<sup>2)</sup></b>	<b>0521<sup>2)</sup></b>	<b>0523<sup>2)</sup></b>	<b>0526<sup>2)</sup></b>
lid Cat. No. <b>5053</b>												
carrier Cat. No. <b>5051</b>												
<b>Cat. No.</b>	<b>5257</b>	<b>5281</b>	<b>5267</b>	<b>5227</b>	<b>5247<sup>18)</sup></b>	<b>5264</b>	<b>5248<sup>18)</sup></b>	<b>5242</b>	<b>5243</b>	<b>5249</b>	<b>5262</b>	
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 <sup>2)</sup> 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	24											
run-down in sec, braked	17											
temperature in °C <sup>1)</sup>	-8											















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	11x66	15x75	11x92	13x90	15x92	16x92	15x102	13x75	13x100	16x75	16x100
<b>Cat. No.</b>	<b>blood collection/urine tubes</b>												
lid Cat. No. <b>5053</b>													
carrier Cat. No. <b>5051</b>													
<b>Cat. No.</b>	<b>5267</b>	<b>5268</b>	<b>5227</b>	<b>5264</b>	<b>5227</b>	<b>5268</b>	<b>5264</b>	<b>5258</b>	<b>5268</b>	<b>6301</b>	<b>5264</b>	<b>5248</b>	
boring Ø x L in mm	11x44	13.5x52	12.5x42	16x50	12.5x42	13.5x52	16x50	17.6x86	13.5x52	13.5x86	16x50	17.5x86	
tubes per rotor	80	48	80	48	80	48		44	48				
max. RCF <sup>2)</sup>	2,737	2,808	2,773		2,808		2,773	2,755	2,808	2,755	2,773	2,755	
radius in mm	153	157	155		157	155	154	157	154	155	154		
run-up in sec	24												
run-down in sec, braked	17												
temperature in °C <sup>1)</sup>	-8												

<sup>13)</sup> The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38x110 mm.  
<sup>18)</sup> With Cat. No. 5247-91 or 5248-91 these adapters can also be ordered with a decanting aid.  
<sup>24)</sup> Carrier must be loaded as illustrated.  
<sup>28)</sup> At temperatures of over +40 °C and/or when not filled to capacity, bottles may warp during centrifugation.



illustrated with carriers 5051 and lids 5053

## Swing-out rotor 1798

capacity in ml	15	30	50	12	30	50	two-tier frame for cyto accessories
Ø x L in mm	17x120	25x110	29x115	17x100	25x110	29x115	
<b>Cat. No.</b>	<b>0509</b>	-	<b>0513</b>	-	-	-	<b>cyto chambers</b> <sup>2,3)</sup>
lid Cat. No. <b>5053</b>	 <sup>3)</sup>	 <sup>3)</sup>	 <sup>3)</sup>	 <sup>3)</sup>	 <sup>3)</sup>	 <sup>3)</sup>	
<b>carrier</b> Cat. No. <b>5051</b>						 + 2x6316	
<b>Cat. No.</b>	<b>6306</b>	<b>5266</b>	<b>5259</b>	<b>6306</b>	<b>5266</b>	<b>5243</b>	<b>5280</b>
boring Ø x L in mm	17x90	26x86	30x86	17x90	26x86	36x86	-
tubes per rotor	28	20	8	28	20	8	8
max. RCF <sup>2)</sup> 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	24						
run-down in sec, braked	17						
temperature in °C <sup>1)</sup>	-8						

<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.

<sup>2)</sup> 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 <sup>2)</sup> is 4,000.

<sup>3)</sup> When using these tubes, carrier 5051 and 5092 cannot be closed with lid 5053 resp. 5093.

<sup>4)</sup> Please remove the inserts.



illustrated with carriers 5092 and lids 5093  
with bio-containment<sup>5)</sup>

**Swing-out rotor 1798**

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

capacity in ml	15	30	50	12	25	30	50	10	250	290
Ø x L in mm	17x120	25x110	29x115	17x100	25x90	25x110	29x115	16x80	61x122	62x137
<b>Cat. No.</b>	<b>0509</b>	-	<b>0513</b>	-	-	-	-	-	<b>5127<sup>2b)</sup></b>	<b>-<sup>2b)</sup></b>
lid with bio-containment <sup>5)</sup> Cat. No. 5093										
carrier Cat. No. 5092										
<b>Cat. No.</b>	<b>5129<sup>4)</sup></b>	<b>5122</b>	<b>5123</b>	<b>5121</b>	<b>5134</b>	<b>5122</b>	<b>5135</b>	<b>5136</b>	<b>6319</b>	
boring Ø x L in mm	17x85	25.5x82	30x85	17.5x82	26x73	25.5x82	30x99	17.5x60.7	66x103	
tubes per rotor	28	16	8	28	12	16	8	32	4	
max. RCF <sup>2)</sup>	3,095	2,898	3,095	3,005	2,826	2,898	3,023	2,952	3,095	
radius in mm	173	162	173	168	158	162	169	165	173	
run-up in sec	24									
run-down in sec, braked	17									
temperature in °C <sup>1)</sup>	-8									

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









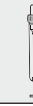
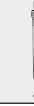
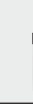
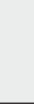
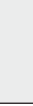
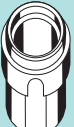








<sup>23)</sup> Please ask for our detailed cyto brochure.

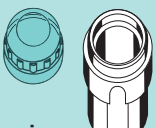






<sup>2b)</sup> At temperatures of over +40 °C and/or when not filled to capacity, bottles may warp during centrifugation.



illustrated with carriers 5092 and lids 5093  
with bio-containment<sup>5)</sup>

## Swing-out rotor 1798

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				
Ø x L in mm	8x66	13x65	11x66	15x75	11x92	13x90	15x92	16x92	15x102	13x75	16x75	16x75				
<b>Cat. No.</b>	<b>blood collection/urine tubes</b>															
lid with bio-containment <sup>5)</sup> Cat. No. 5093 																
<b>carrier</b> Cat. No. 5092 																
<b>Cat. No.</b>	<b>5138</b>		<b>5136</b>		<b>5120</b>		<b>5137</b>		<b>5136</b>		<b>5138</b>		<b>5136</b>		<b>5121-93</b>	
boring Ø x L in mm	12.8x54.5		17.5x60.7		12.8x82		13.5x60.7		17.5x60.7		12.8x54.5		17.5x60.7		17.5x52	
tubes per rotor	48		32		48		32		32		48		32		28	
max. RCF <sup>2)</sup>	2,540		2,952		3,005		2,952		2,952		2,540		2,952		3,005	
radius in mm	142		165		168		165		165		142		165		168	
run-up in sec	24															
run-down in sec, braked	17															
temperature in °C <sup>1)</sup>	-8															

capacity in ml	4–7	8	8.5–10
Ø x L in mm	13x100	16x125	16x100
<b>Cat. No.</b>	<b>blood/urine tubes</b>		
lid with bio-containment <sup>5)</sup> Cat. No. 5093 			
<b>carrier</b> Cat. No. 5092 			
<b>Cat. No.</b>	<b>5120</b>	<b>5121<sup>4)</sup></b>	<b>5136</b>
boring Ø x L in mm	12.8x82	17.5x82	17.5x60.7
tubes per rotor	48	28	32
max. RCF <sup>2)</sup>	3,005	3,059	2,952
radius in mm	168	171	165
run-up in sec	24		
run-down in sec, braked	17		
temperature in °C <sup>1)</sup>	-8		

<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.

<sup>2)</sup> 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 <sup>2)</sup> is 4,000.

<sup>3)</sup> When using these tubes, carrier 5092 cannot be closed with lid 5093.

<sup>4)</sup> Please remove the inserts.

### Swing-out rotor, 6-place










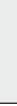
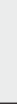

















↻ 90°
















n = 4,000 min<sup>-1</sup>  
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	8.5x10	30
Ø x L in mm	12x75	12x82	12x100	14x100	17x100	21x100	24x100	31x100	34x100	16x100	26x95
<b>Cat. No.</b>	<b>0553</b> <sup>2)</sup>	<b>0501</b> <sup>2)</sup>	<b>0578</b> <sup>2)</sup>	<b>0500</b> <sup>2)</sup>	<b>0518</b> <sup>2)</sup>	-	<b>0519</b> <sup>2)</sup>	-	<b>0521</b> <sup>2)</sup>	blood coll. tube	<b>0545</b>
 <b>rotor</b> Cat. No. <b>1726</b>											
	 with decanting aid	 with decanting aid									
<b>Cat. No.</b>	<b>1369-91</b>	<b>1372</b>	<b>1369-92</b>	<b>1370</b>	<b>1369</b>	<b>1346</b>	<b>1745</b>	<b>1345</b>	<b>1746</b>	<b>1369</b>	<b>1745</b>
boring Ø x L in mm	12.5 x 64.4	13.5 x 65	12.5 x 71.5	14.6 x 74	17.6 x 74	21.5 x 74	26 x 78	32 x 74	35 x 78	17.6 x 74	26 x 78
tubes per rotor	24	102	24	30	24	12		6		24	12
max. RCF <sup>2)</sup>	2,576	2,522	2,665			2,719	2,808	2,719	2,808	2,665	2,808
radius in mm	144	141	149			152	157	152	157	149	157
run-up in sec	19										
run-down in sec, braked	18										
temperature in °C <sup>1)</sup>	-6										

capacity in ml	suspension for cyto accessories
Ø x L in mm	
<b>Cat. No.</b>	<b>cyto chambers</b> <sup>23)</sup>
 <b>rotor</b> Cat. No. <b>1726</b>	
	
<b>Cat. No.</b>	<b>1660</b>
boring Ø x L in mm	-
tubes per rotor	6
max. RCF <sup>2)</sup>	2,003
radius in mm	112
run-up in sec	19
run-down in sec, braked	18
temperature in °C <sup>1)</sup>	-6

capacity in ml	15	2.6-3.4	4-5.5	7.5-8.5	9-10	10	1.6-5	4-7	8.5-10	15
Ø x L in mm	17x100	13x65	15x75	15x92	16x92	15x102	13x75	16x75	16x100	17x120
<b>Cat. No.</b>	<b>0518</b> <sup>2)</sup>	<b>blood collection / urine tubes</b>							<b>0509</b>	
 <b>carrier</b> Cat. No. <b>1742</b>										
	 rubber insert	 <sup>24)</sup>		 <sup>24)</sup>						
<b>Cat. No.</b>	-	<b>0716</b>	-	-	<b>0716</b>	-				
boring Ø x L in mm	17.6x78									
tubes per rotor	42				18	42				18
max. RCF <sup>2)</sup>	2,808	2,683	2,808		2,683	2,808				
radius in mm	157	150	157		150	157				
run-up in sec	19									
run-down in sec, braked	18									
temperature in °C <sup>1)</sup>	-6									

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

<sup>23)</sup> Please ask for our detailed cyto brochure.

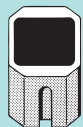





<sup>24)</sup> Carrier must be loaded as illustrated.








illustrated with carriers 1742

### Swing-out rotor 1726

capacity in ml	1.5	2.0	1	3	4
Ø x L in mm	11x38		6x45	10x60	12x60
<b>Cat. No.</b>	<b>2078</b>	<b>0536</b>	<b>Rhesus</b>	-	-
 <b>carrier</b> Cat. No. <b>1366</b>					
<b>Cat. No.</b>	<b>5277</b>	<b>1357</b>	<b>1327</b>	<b>1326</b>	
boring Ø x L in mm	11.5x38		6.5x23	10.5x23	12.5x44
tubes per rotor	54		180	72	
max. RCF <sup>2)</sup>	2,325		2,308	2,290	
radius in mm	130		129	128	
run-up in sec	19				
run-down in sec, braked	18				
temperature in °C <sup>1)</sup>	-6				

capacity in ml	15	50
Ø x L in mm	17x120	29x115
<b>Cat. No.</b>	<b>0509</b>	<b>0513</b>
 <b>rotor</b> Cat. No. <b>1717</b>		
<b>Cat. No.</b>	<b>1462-A</b>	-
boring Ø x L in mm	17x84	38.4x89
tubes per rotor	10	
max. RCF <sup>2)</sup>	2,916	
radius in mm	163	
run-up in sec	19	
run-down in sec, braked	14	
temperature in °C <sup>1)</sup>	-9	

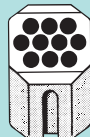






### Swing-out rotor, 10-place



∠ 45°

n = 4,000 min<sup>-1</sup>  
max. RCF 2,916

**Cat. No. (with carriers) 1717**

capacity in ml	9	1.1–1.4	4.5–5	4.9	1.6–5	4–7
Ø x L in mm	14x100	8x66	11x92	13x90	13x75	13x100
<b>Cat. No.</b>	<b>0500<sup>2)</sup></b>	<b>blood collection/urine tubes</b>				
 <b>carrier</b> Cat. No. <b>1741</b>						
<b>Cat. No.</b>	<b>0701</b>	-	<sup>24)</sup>	-	<b>6x0768<sup>19)</sup></b>	-
boring Ø x L in mm	14.6x78					
tubes per rotor	60	36	60			
max. RCF <sup>2)</sup>	2,773	2,808		2,486	2,808	
radius in mm	155	157		139	157	
run-up in sec	19					
run-down in sec, braked	18					
temperature in °C <sup>1)</sup>	-6					

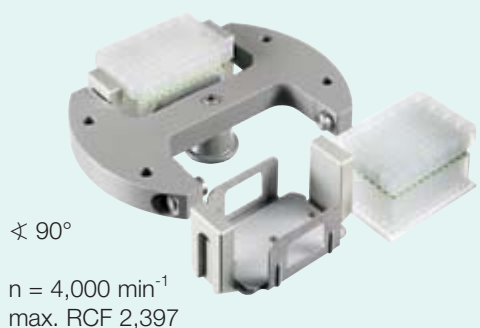
<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.

<sup>2)</sup> 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 <sup>2)</sup> is 4,000.

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

### Swing-out rotor, 2-place

### Swing-out rotor, 2-place



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



**Cat. No.** (without carriers) **1770**

DxWxH in mm	86x128x15/17.5		86x128x22	86x128x44.5	86x128x46	86x128x83	59x84x11	82x124x20	-
capacity in ml	-								
capacity in ml	0.2								
<b>Cat. No.</b>	<b>MTP</b>		<b>CP</b>	<b>DWP</b>	<b>MS</b>	<b>QP</b>	<b>Microtest plate (Terasaki)</b>	<b>PCR plate, 96 wells</b>	<b>PCR strips</b>
<b>rotor</b> Cat. No. <b>1760</b>									
<b>Cat. No.</b>	<b>1753-A</b>							<b>1753-A + 1485</b>	
boring Ø x L in mm	-								
plates/strips per rotor	10	8	6	2	2	2	4	2	24x8
max. RCF <sup>2)</sup>	2,397								
radius in mm	134								
run-up in sec	30								
run-down in sec, braked	23								
temperature in °C <sup>1)</sup>	-8								

DxWxH in mm	86x128x15	86x128x17.5	86x128x22	86x128x44.5	86x128x46	86x128x83	59x84x11	82x124x20	-
capacity in ml	-								
capacity in ml	0.2								
<b>Cat. No.</b>	<b>MTP</b>		<b>CP</b>	<b>DWP</b>	<b>MS</b>	<b>QP</b>	<b>Microtest plate (Terasaki)</b>	<b>PCR plate, 96 wells</b>	<b>PCR strips</b>
<b>lid with bio-containment<sup>5)</sup></b> Cat. No. <b>4627</b>									
<b>rotor 1770 carrier</b> Cat. No. <b>4745</b>	<b>4626</b>							<b>4626 + 1485</b>	
boring Ø x L in mm	-								
plates/strips per rotor	12	10	8	2		4		2	24x8
max. RCF <sup>2)</sup>	3,926								
radius in mm	135								
run-up in sec	65								
run-down in sec, braked	30								
temperature in °C <sup>1)</sup>	-3								

<sup>19)</sup> Packed in units of 10 pieces.

<sup>24)</sup> Carrier must be loaded as illustrated.


















## Angle rotor, 6-place




















∠ 45°

**Rotina 380 R**  $n = 11,000 \text{ min}^{-1}$ , max. RCF **16,369**  
 Rotina 380  $n = 10,000 \text{ min}^{-1}$ , max. RCF **13,528**

**Cat. No. 1720**

capacity in ml	1.5	2.0	15	25	50	75	94	7.5–8.5	9–10	
Ø x L in mm	11x38		17x100	24x100	34x100	35x105	38x102	15x92	16x92	
<b>Cat. No.</b>	<b>2078</b>	<b>0536</b>	<b>0518<sup>2)</sup></b>	<b>0519<sup>2)</sup></b>	<b>0521<sup>2)</sup></b>	<b>0548</b>	<b>0549</b>	<b>blood / urine tubes</b>		
 <b>rotor</b> Cat. No. <b>1720</b>										
										
<b>Cat. No.</b>	<b>1449</b>	<b>1451</b>	<b>1447</b>	<b>1463</b>	<b>1463</b>	<b>-</b>	<b>1451</b>			
boring Ø x L in mm	11.4x39		17.5x92	26x85	35x89		38.4x89	17.5x92		
tubes per rotor	24		6							
max. RCF <sup>2)</sup> classic/coolled	12,969/15,692		12,745/15,422	12,410/15,016	13,304/16,098		13,528/16,369	12,745/15,422		
radius in mm	116		114	111	119		121	114		
run-up in sec classic/coolled	39/45									
run-down in sec, braked classic/coolled	36/44									
temperature in °C <sup>1)</sup>	+1									

capacity in ml	8.5–10	5	15	50	10	30	50	85	94
Ø x L in mm	16x100	17x59	17x120	29x115	16x80	26x95	29x107	38x106	38x102
<b>Cat. No.</b>	<b>blood/urine tube</b>	<b>-</b>	<b>0509</b>	<b>0513</b>	<b>-</b>	<b>0545</b>	<b>0546</b>	<b>0547</b>	<b>0538<sup>3)</sup></b>
 <b>rotor</b> Cat. No. <b>1720</b>									
									
<b>Cat. No.</b>	<b>1451</b>	<b>1476</b>	<b>1466</b>	<b>1454</b>	<b>1448</b>	<b>1447</b>	<b>1446</b>	<b>-</b>	
boring Ø x L in mm	17.5x92	17x51	17x106	29.8x97	16.5x74	26x85	29x92	38.4x89	
tubes per rotor	6				12	6			
max. RCF <sup>2)</sup> classic/coolled	12,745/15,422	12,857/15,557	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	114	115	117	114	111	111	116	121	
run-up in sec classic/coolled	39/45								
run-down in sec, braked classic/coolled	36/44								
temperature in °C <sup>1)</sup>	+1								

<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.

<sup>2)</sup> 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 <sup>2)</sup> is 4,000.

**Angle rotor, 6-place**



↘ 45°

with bio-containment<sup>5)</sup>

**Rotina 380 R** n = 11,000 min<sup>-1</sup>, max. RCF 16,504  
Rotina 380 n = 10,000 min<sup>-1</sup>, max. RCF 13,640

**Cat. No. 1792**

capacity in ml	1.5	2.0	15	25	50	75	94	7.5–8.5	9–10	
Ø x L in mm	11x38		17x100	24x100	34x100	35x105	38x102	15x92	16x92	
<b>Cat. No.</b>	<b>2078</b>	<b>0536</b>	<b>0518<sup>2)</sup></b>	<b>0519<sup>2)</sup></b>	<b>0521<sup>2)</sup></b>	<b>0548</b>	<b>0549</b>	<b>blood/urine tubes</b>		
lid with bio-containment <sup>5)</sup> incl.										
<b>rotor</b> Cat. No. <b>1792</b>										
<b>Cat. No.</b>	<b>1449</b>	<b>1451</b>	<b>1447</b>	<b>1463</b>	<b>-</b>	<b>1451</b>	<b>-</b>	<b>-</b>	<b>1451</b>	
boring Ø x L in mm	11.4x39		17.5x92	26x85	35x89	38.2x89.6	38.2x89.6	17.5x92	17.5x92	
tubes per rotor	24		6							
max. RCF <sup>2)</sup> classic/cooled	13,081/15,828		12,857/15,557	12,522/15,151	13,640/16,504	13,640/16,504	13,640/16,504	12,857/15,557		
radius in mm	117		115	112	122	122	122	115		
run-up in sec classic/cooled	40/48									
run-down in sec, braked classic/cooled	37/44									
temperature in °C <sup>1)</sup>	+4									

capacity in ml	10	8.5–10	5	15	50	10	30	50	85	94
Ø x L in mm	15x102	16x100	17x59	17x120	29x115	16x80	26x95	29x107	38x106	38x102
<b>Cat. No.</b>	<b>blood / urine tubes</b>		<b>-</b>	<b>0509</b>	<b>0513</b>	<b>-</b>	<b>0545</b>	<b>0546</b>	<b>0547</b>	<b>0538<sup>13)</sup></b>
lid with bio-containment <sup>5)</sup> incl.										
<b>rotor</b> Cat. No. <b>1792</b>										
<b>Cat. No.</b>	<b>1451</b>	<b>1476</b>	<b>1466</b>	<b>1454</b>	<b>1448</b>	<b>1447</b>	<b>1446</b>	<b>1446</b>	<b>-</b>	<b>-</b>
boring Ø x L in mm	17.5x92		17x51	17x106	29.8x97	16.5x74	26x85	29x92	38.2x89.6	38.2x89.6
tubes per rotor			6			12	6			
max. RCF <sup>2)</sup> classic/cooled	12,857/15,557	12,745/15,422	13,081/15,828	13,304/16,098	12,857/15,557	12,522/15,151	13,081/15,828	13,640/16,504	13,640/16,504	13,640/16,504
radius in mm	115	114	117	119	115	112	117	122	122	122
run-up in sec classic/cooled	40/48									
run-down in sec, braked classic/cooled	37/44									
temperature in °C <sup>1)</sup>	+4									

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

<sup>13)</sup> The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38x110 mm.

### Angle rotor, 30-place

### Drum rotor, 6-place



∠ 45°

n = 15,000 min<sup>-1</sup>  
max. RCF 24,400

with bio-containment<sup>5)</sup>,  
phenol-resistant



n = 15,000 min<sup>-1</sup>  
max. RCF 18,866

illustrated with  
adapters 1377

**Cat. No. 1789-A**

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

capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0	0.5
Ø x L in mm	6x18	6x45	8x30	8x45	11x38		10.7x36
<b>Cat. No.</b>	-				<b>2078</b>	<b>0536</b>	<b>Pediatric</b>
lid with bio-containment <sup>5)</sup> incl.							
<b>rotor</b> Cat. No. <b>1789-A</b>							
<b>Cat. No.</b>	<b>2024</b>	<b>2023</b>		<b>2031</b> <sup>7)</sup>	-		<b>0788</b> <sup>20)</sup>
boring Ø x L in mm	6x40	8x40		10.2x19	11.2x40.9		
tubes per rotor	30						15
max. RCF <sup>2)</sup>	24,400						23,394
radius in mm	97						93
run-up in sec	24						
run-down in sec, braked	24						
temperature in °C <sup>1)</sup>	+4						

capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0
Ø x L in mm	6x18	6x45	8x30	8x45	11x38	
<b>Cat. No.</b>	-				<b>2078</b>	<b>0536</b>
lid incl.						
<b>rotor</b> Cat. No. <b>1711</b>						
<b>Cat. No.</b>	<b>1378</b>	<b>1379</b>		<b>1377</b>		
boring Ø x L in mm	6x40	8.4x43		10.8x37		
tubes per rotor	192	126		60		
max. RCF <sup>2)</sup>	18,866					
radius in mm	75					
run-up in sec	25					
run-down in sec, braked	23					
temperature in °C <sup>1)</sup>	+2					

<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.

<sup>2)</sup> 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 <sup>2)</sup> is 4,000.

### Angle rotor, 8-place



∠ 45°

n = 4,500 min<sup>-1</sup>  
max. RCF 3,305

**Cat. No.** (without adapters) **1721**

### Cyto rotor, 8-place



For detailed information on the comprehensive Hettich cyto system please turn to the pages 180–185.

n = 4,000 min<sup>-1</sup>  
max. RCF 2,415

**Cat. No.** (without carriers) **1748**

capacity in ml	5	15	1.1–1.4	2.6–3.4	2.7–3	9–10	1.6–5	4–7	8.5–10	12	15	50
∅ x L in mm	12x75	17x100	8x66	13x65	11x66	16x92	13x75	13x100	16x100	17x102	17x120	29x115
<b>Cat. No.</b>	<b>0553<sup>2)</sup></b>	<b>0518<sup>2)</sup></b>	<b>blood collection/urine tubes</b>								<b>0509</b>	<b>0513</b>
 <b>rotor</b> Cat. No. <b>1721</b>												
	+ 1054-A	+ 0716		+ 1054-A		+ 0716	+ 1054-A		+ 0716	+ 0716	+ E2109	+ E2110-A
<b>Cat. No.</b>	<b>1467</b>											<b>1468</b>
boring ∅ x L in mm	17.4x91											30.2x92
tubes per rotor	32											8
max. RCF <sup>2)</sup>	2,762	3,215		2,762		3,215	2,762	3,305		3,215	3,283	3,147
radius in mm	122	142		122		142	122	146		142	145	139
run-up in sec	17											
run-down in sec, braked	14											
temperature in °C <sup>1)</sup>	-11											

capacity in ml	12	50	50
∅ x L in mm	17x100	29x115	29x107
<b>Cat. No.</b>	-	-	<b>0546</b>
 <b>rotor</b> Cat. No. <b>1721</b>			
	+ 0716		
<b>Cat. No.</b>	<b>1467</b>	<b>1468</b>	
boring ∅ x L in mm	17.4x91	30.2x92	
tubes per rotor	32	8	
max. RCF <sup>2)</sup>	3,215	3,147	
radius in mm	142	139	
run-up in sec	17		
run-down in sec, braked	14		
temperature in °C <sup>1)</sup>	-11		

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

<sup>7)</sup> For centrifugation at high speeds, we recommend to use form-fitting, phenol-resistant adapters 2031.

<sup>20)</sup> Packed in units of 15 pieces.