

BENCHTOP CENTRIFUGE

# — ROTINA 380 | 380 R

## HIGH SPEED WITH SPACE SAVING DESIGN

High performance unit supporting a wide array of accessories for multiple applications in just one rotor. Its size and performance make it the ideal bench top centrifuge for most clinical, research and industrial laboratories.

This unit is available with refrigeration and a temperature range from -20 °C to +40 °C (ROTINA 380 R).



## — HIGHLIGHTS

- RPM: 50 - 15,000 min<sup>-1</sup>  
Adjustable in increments of 10
- RCF: 50 - 24,400  
Adjustable in increments of 1
- max. capacity: 4 x 290 ml
- choice of 9 rotors
- IVDR-conform according to regulation (EU) 2017/746
- max. noise level of 54 dB(A) with rotor 1760
- easy operation with keypad and control knob
- 98 program memories for more individuality
- 9 individual acceleration and 10 deceleration stages
- model 380 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 switch-off
- backlit panel with actual values of all parameters
- auditory message after completion of the centrifugation run

## TECHNICAL DATA

	<b>ROTINA 380</b> non-refrigerated	<b>ROTINA 380 R</b> refrigerated
voltage *)	200 – 240 V 1 ~	200 – 240 V 1 ~
frequency	50 – 60 Hz	50 – 60 Hz
consumption	650 VA	1,300 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	4 x 290 ml	4 x 290 ml
max. RPM	15,000 min <sup>-1</sup>	15,000 min <sup>-1</sup>
max. RCF	24,400	24,400
running time	1 – 99 h: 59 min: 59 sec, ∞ continuous run, short cycle mode	1 – 99 h: 59 min: 59 sec, ∞ continuous run, short cycle mode
dimensions (WxDxH)	457x600x418 mm	457x750x418 mm
weight	approx. 51 kg	approx. 81 kg
noise level	54 dB (A) with rotor 1760	54 dB (A) with rotor 1760
temperature control, infinitely variable	-	from -20 to +40 °C
<b>Cat. No.</b>	<b>1701</b>	<b>1706</b>
100 – 127 V 1 ~ / 50 – 60 Hz *)	1701-01	1706-01
consumption	700 VA	1,400 VA
emission, immunity	FCC class B	FCC class B
weight	approx. 58.5 kg	approx. 88.5 kg

\*) Other voltages on request.

## AVAILABLE ROTORS

<b>SWING-OUT ROTORS</b>		angle	max. RPM	max. capacity	Cat. No.	page
	swing-out rotor, 4-place	90°	5,000 min <sup>-1</sup>	4x290 ml	<b>1754</b>	3
	swing-out rotor, 4-place	90°	4,000 min <sup>-1</sup>	4x290 ml	<b>1798</b>	5
	swing-out rotor, 6-place	90°	4,000 min <sup>-1</sup>	6x50 ml	<b>1726</b>	8
	swing-out rotor, 2-place	90°	4,000 min <sup>-1</sup>	10 plates	<b>1760</b>	9
	swing-out rotor, 2-place	90°	5,100 min <sup>-1</sup>	12 plates	<b>1770</b>	9
<b>ANGLE ROTORS</b>						
	angle rotor, 6-place	45°	10,000   11,000 min <sup>-1</sup>	6x94 ml	<b>1720</b>	10
	angle rotor, 6-place	45°	10,000   11,000 min <sup>-1</sup>	6x94 ml	<b>1792</b>	11
	angle rotor, 30-place	45°	15,000 min <sup>-1</sup>	30x2 ml	<b>1789-A</b>	12

## SWING-OUT ROTOR, 4-PLACE | 1754



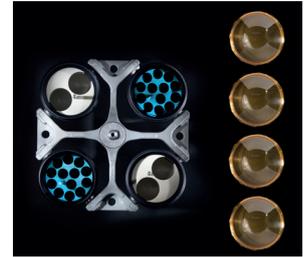
### Rotor

max. RPM   max. RCF	5,000 min <sup>-1</sup>   4,863
max. capacity	4 x 290 ml
run-up   run-down, braked in sec	42   27
angle   max. noise level	90°   60 dB (A)
temperature in °C <sup>1)</sup>	0
<b>Cat. No.</b>	<b>1754</b>



### Bucket

lid bioseal <sup>2)</sup>	1751
<b>Cat. No.</b>	<b>1752</b>



### Vessels

capacity in ml	1.5	2.0	3	4	5	6	7	9	15	20	25	45	50	94	100
Ø x L in mm	11 x 38	11 x 38	10 x 60	12 x 60	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	38 x 102	40 x 115
max. RCF <sup>2)</sup>	top / bottom	3,494 / 4,779	3,494 / 4,779	4,779	4,668	4,668	4,668	4,668	4,668	4,668	4,668	4,668	4,668	4,807	4,640
radius in mm	top / bottom	125 / 171	125 / 171	171	167	167	167	167	167	167	167	167	167	172	166
<b>Cat. No.</b>	<b>microliter tubes</b>			<b>tubes<sup>2)</sup></b>											



### Adapter

boring Ø x L in mm	11.2x39.5	11.2x39.5	11.2x39.5	12.5x56	12.5x56	12.5x56	12.5x56	17.5x62	17.5x62	25.5x81	25.5x81	35.5x81	35.5x81	38.5x80	41 x 97
vessels per rotor	144	144	72	96	96	96	96	52	52	24	24	12	12	8	4
<b>Cat. No.</b>	<b>1761</b>	<b>1761</b>	<b>1761</b>	<b>1762-A</b>	<b>1762-A</b>	<b>1762-A</b>	<b>1762-A</b>	<b>1763-A</b>	<b>1763-A</b>	<b>1764</b>	<b>1764</b>	<b>1765</b>	<b>1765</b>	<b>1777</b>	<b>1767</b>

### Vessels

capacity in ml	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	1.6-5	4-7
Ø x L in mm	44 x 100	65 x 115	8 x 66	13 x 65	11 x 66	15 x 75	11 x 92	11 x 92	13 x 90	13 x 90	15 x 92	16 x 92	15 x 102	13 x 75	13 x 100
max. RCF <sup>2)</sup>	4,640	4,640	4,668	4,668	4,668	4,668	4,668	4,668	4,668	4,668	4,668	4,668	4,668	4,668	4,668
radius in mm	166	166	167	167	167	167	167	167	167	167	167	167	167	167	167
<b>Cat. No.</b>	<b>tubes<sup>2)</sup></b>		<b>blood collection tubes / urine tubes</b>												



### Adapter

boring Ø x L in mm	45 x 87	66 x 104.5	9 x 49	13.5 x 54	12.5 x 56	17.5 x 62	12.5 x 56	13.2 x 72	13.5 x 54	13.2 x 72	17.5 x 62	17.5 x 62	17.5 x 62	13.5 x 54	13.5 x 54
vessels per rotor	4	4	96	64	96	52	96	76	64	76	52	52	52	64	64
<b>Cat. No.</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>	<b>1763-A</b>	<b>1763-A</b>	<b>1783-A</b>	<b>1783-A</b>

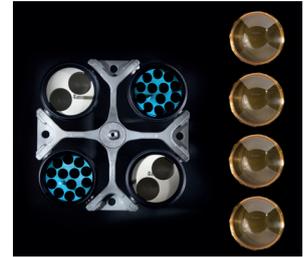
1) For cooled versions: Lowest temperature achievable with precooling and max. speed.  
 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.  
 The max. RCF for glass tubes annotated with footnote 2) is 4,000.  
 5) Tested by TÜV in conformity with DIN EN 61010, section 2 - 020.

## SWING-OUT ROTOR, 4-PLACE | 1754



<b>Rotor</b>	
max. RPM   max. RCF	5,000 min <sup>-1</sup>   4,863
max. capacity	4 x 290 ml
run-up   run-down, braked in sec	42   27
angle   max. noise level	90°   60 dB (A)
temperature in °C <sup>1)</sup>	0
<b>Cat. No.</b>	<b>1754</b>

<b>Bucket</b>	
lid bioseal <sup>5)</sup>	1751
<b>Cat. No.</b>	<b>1752</b>



<b>Vessels</b>	
capacity in ml	4 – 7    4 – 7    8    8.5 – 10    5    15    50    12    25    30    50    50    14    10    30
Ø x L in mm	13x100    16x75    16x125    16x100    17x59    17x120    29 x 115    17x100    25x90    25x110    29x115    29x115    16,5x106    16x80    26x95
max. RCF <sup>2)</sup>	4,668    4,668    4,668    4,668    4,863    4,863    4,863    4,696    4,528    4,528    4,752    4,752    4,668    4,668    4,807
radius in mm	167    167    167    167    174    174    174    168    162    162    170    170    167    167    172
<b>Cat. No.</b>	<b>blood collection tubes / urine tubes    -    tubes with screw cap</b>

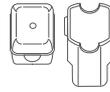
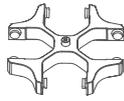
<b>Adapter</b>	
boring Ø x L in mm	13.2x72    17.5x62    17.5x62 <sup>21)</sup> 17.5x62    17x52    17x84    30x84    17x78    26.5x72    26.5x72    30x80    30x80    17.5x62    17.5x62    26.5x70
vessels per rotor	76    52    12    52    32    36    16    36    20    20    16    16    52    52    24
<b>Cat. No.</b>	<b>1787    1763-A    1763-A    1763-A    1738    1771-A    1772-A    1773    1779    1779    1774-A    1774-A    1763-A    1763-A    1775</b>

<b>Vessels</b>	
capacity in ml	50    85    94    175    175 <sup>3,3)</sup> 200    225    250    290 <sup>3,3)</sup>
Ø x L in mm	29x107    38x106    38x102    61 x 118    62 x 144    60 x 130    61 x 137    61 x 122    62 x 137
max. RCF <sup>2)</sup>	4,752    4,807    4,807    4,863    4,863    4,863    4,863    4,863    4,863
radius in mm	170    172    172    174    174    174    174    174    174
<b>Cat. No.</b>	<b>tubes with screw cap    Falcon    Nalgene    Nunc®    Falcon    5127<sup>24)</sup>    -<sup>24)</sup></b>

<b>Adapter</b>	
boring Ø x L in mm	30 x 80    38.5 x 80    38.5 x 80    62 x 111    62 x 111    62 x 111    62 x 111    62 x 100    62 x 100
vessels per rotor	16    8    8    4    4    4    4    4    4
<b>Cat. No.</b>	<b>1774-A    1777    1777    1782    1778    1778    1782    1769    1769</b>

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.  
 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.  
 3,3) When using these tubes, bucket 1752 or 5051 cannot be closed with lid 1751 or 5053.  
 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.  
 21) Adapter must be loaded as illustrated.  
 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

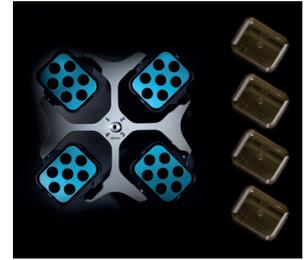
## SWING-OUT ROTOR, 4-PLACE | 1798



<b>Rotor</b>	
max. RPM   max. RCF	4,000 min <sup>-1</sup>   2,898
max. capacity	4 x 100 ml
run-up   run-down, braked in sec	24   17
angle   max. noise level	90°   55 dB (A)
temperature in °C <sup>1)</sup>	-8
<b>Cat. No.</b>	<b>1798</b>



<b>Bucket</b>	
lid	5053
<b>Cat. No.</b>	<b>5051</b>



<b>Vessels</b>															
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	40 x 115	44 x 100
max. RCF <sup>2)</sup>	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		109 / 158	109 / 158	158	158	153	155	155	154	155	154	154	154	154	154
<b>Cat. No.</b>		<b>microliter tubes</b>				<b>tubes<sup>2)</sup></b>									



<b>Adapter</b>																
boring Ø x L in mm		12.5x42	12.5x42	11.5x50	11.5x50	11 x 44	12.5x42	12.5x42	12.5x42	12.5x86	16x50	17.5x86	26x86	36x86	42x86	45.5x86
vessels per rotor		160	160	64	64	80	80	80	80	48	48	20	8	4	4	
<b>Cat. No.</b>		<b>5257</b>	<b>5257</b>	<b>5281</b>	<b>5281</b>	<b>5267</b>	<b>5227</b>	<b>5227</b>	<b>5227</b>	<b>5247<sup>15)</sup></b>	<b>5264</b>	<b>5248<sup>15)</sup></b>	<b>5242</b>	<b>5243</b>	<b>5249</b>	<b>5262</b>

<b>Vessels</b>															
capacity in ml		1.1-1.4	2.6-3.4	2.7-3	4-5.5	4.5-5	4.9	7.5-8.5	9-10	10	1.6-5	4-7	4-7	8.5-10	
Ø x L in mm		8x66	13x65	11 x 66	15 x 75	11 x 92	13x90	15x92	16x92	15x102	13x75	13x100	16x75	16x100	
max. RCF <sup>2)</sup>		2,737	2,808	2,773	2,773	2,773	2,808	2,773	2,755	2,755	2,808	2,808	2,773	2,755	
radius in mm		153	157	155	155	155	157	155	154	154	157	157	155	154	
<b>Cat. No.</b>		<b>blood collection tubes / urine tubes</b>													



<b>Adapter</b>														
boring Ø x L in mm		11 x 44	13.5x52	12.5x42	16x50	12.5x42	13.5x52	16x50	17.6x86	17.6x86	13.5x52	13.5x52	16x50	17.5x86
vessels per rotor		80	48	80	48	80	48	48	44	44	48	48	48	48
<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>5258</b>	<b>5268</b>	<b>5268</b>	<b>5264</b>	<b>5248</b>

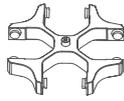
<b>Vessels</b>								
capacity in ml		30	50	15	12	30	50	1-8
Ø x L in mm		25x110	29x115	17x120	17x100	25x110	29x115	simple / multiple
max. RCF <sup>2)</sup>	top / bottom	2,755	2,826	2,898	2,898	2,755	2,755	1,735 / 2,737
radius in mm		154	158	162	162	154	154	97 / 153
<b>Cat. No.</b>		<b>tubes with screw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



<b>Adapter</b>								
boring Ø x L in mm		26x86	30x86	17x90	17x90	26x86	36x86	-
vessels per rotor		20	8	28	28	20	8	8
<b>Cat. No.</b>		<b>5266</b>	<b>5259</b>	<b>6306</b>	<b>6306</b>	<b>5266</b>	<b>5243</b>	<b>5280</b>

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 3.3) When using these tubes, bucket 1752 or 5051 cannot be closed with lid 1751 or 5053.
- 15) Also available with decanting aid. (Cat. No. 5247-91 or 5248-91).

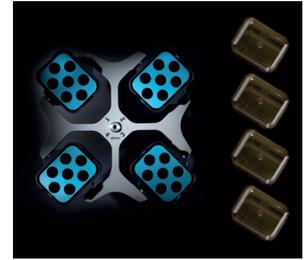
## SWING-OUT ROTOR, 4-PLACE | 1798



<b>Rotor</b>	
max. RPM   max. RCF	4,000 min <sup>-1</sup>   3,095
max. capacity	4 x 290 ml
run-up   run-down, braked in sec	24   17
angle   max. noise level	90°   56 dB (A)
temperature in °C <sup>1)</sup>	-8
<b>Cat. No.</b>	<b>1798</b>



<b>Bucket</b>	
lid bioseal <sup>5)</sup>	5093
<b>Cat. No.</b>	<b>5092</b>



<b>Vessels</b>																
capacity in ml		5	6	7	15	25	50	100	100	250	15	30	50	12	25	30
Ø x L in mm		12x75	12x82	12x100	17x100	24x100	34x100	44x100	40x115	65x115	17x120	25 x 110	29x115	17x100	25x90	25x110
max. RCF <sup>2)</sup>		3,005	3,005	3,005	2,952	2,898	2,952	2,952	2,952	3,095	3,095	2,898	3,095	3,005	2,826	2,898
radius in mm		168	168	168	165	162	165	165	165	173	173	162	173	168	158	162
<b>Cat. No.</b>		<b>tubes<sup>2)</sup></b>									<b>tubes with screw cap</b>					

<b>Adapter</b>																
boring Ø x L in mm		12.8x45	12.8x45	13.2x82	17.5x60.7	25.5x82	35.5x85	45.5x85	42x85	66x103	17x85	25.5x82	30x85	17.5x82	26x73	25.5x82
vessels per rotor		48	48	48	32	16	4	4	4	4	28	16	8	28	12	16
<b>Cat. No.</b>		<b>5128</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>	<b>5129</b>	<b>5122</b>	<b>5123</b>	<b>5121</b>	<b>5134</b>	<b>5122</b>

<b>Vessels</b>																
capacity in ml		50	10	250	290	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
Ø x L in mm		29x115	16 x 80	61 x 122	62 x 137	8 x 66	13 x 65	11x66	15x75	11x92	13x90	15x92	16x92	15x102	13x75	16x75
max. RCF <sup>2)</sup>		3,023	2,952	3,095	3,095	2,540	2,540	2,540	2,952	3,005	2,952	2,952	2,952	2,952	2,540	2,952
radius in mm		169	165	173	173	142	142	142	165	168	165	165	165	165	142	165
<b>Cat. No.</b>		<b>tubes with screw cap</b>		<b>5127<sup>24)</sup></b>	<b>-<sup>24)</sup></b>	<b>blood collection tubes / urine tubes</b>										

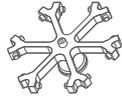
<b>Adapter</b>																
boring Ø x L in mm		30x99	17.5x60.7	66x103	66x103	13.2x54.5	13.2x54.5	13.2x54.5	17.5x60.7	13.2x82	13.5x60.7	17.5x60.7	17.5x60.7	17.5x60.7	13.2x54.5	17.5x60.7
vessels per rotor		8	32	4	4	48	48	48	32	48	32	32	32	32	48	32
<b>Cat. No.</b>		<b>5135</b>	<b>5136</b>	<b>6319</b>	<b>6319</b>	<b>5138</b>	<b>5138</b>	<b>5138</b>	<b>5136</b>	<b>5120</b>	<b>5137</b>	<b>5136</b>	<b>5136</b>	<b>5136</b>	<b>5138</b>	<b>5136</b>

<b>Vessels</b>				
capacity in ml		4-7	8	8.5-10
Ø x L in mm		13x100	16x125	16x100
max. RCF <sup>2)</sup>		3,005	3,059	2,952
radius in mm		168	171	165
<b>Cat. No.</b>		<b>blood collection / urine tubes</b>		

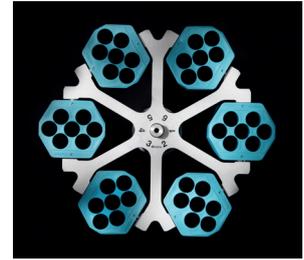
<b>Adapter</b>				
boring Ø x L in mm		13.2x82	17.5x82	17.5x60.7
vessels per rotor		48	28	32
<b>Cat. No.</b>		<b>5120</b>	<b>5121<sup>4)</sup></b>	<b>5136</b>

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.  
The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 3.5) When using these tubes, bucket 5092 cannot be closed with lid 5053.
- 4) Please remove the spacer.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

## — SWING-OUT ROTOR, 6-PLACE | 1726



<b>Rotor</b>	
max. RPM   max. RCF	4,000 min <sup>-1</sup>   2,808
max. capacity	6 x 50 ml
run-up   run-down, braked in sec	19   18
angle   temperature in °C <sup>1)</sup>	90°   -6
<b>Cat. No.</b>	<b>1726</b>



<b>Vessels</b>														
capacity in ml	5	5	6	7	9	15	20	25	45	50	8.5 x 10	30	1-8	
Ø x L in mm	12x75	12x75	12x82	12x100	14x100	17x100	21x100	24x100	31x100	34x100	16x100	26x95	simple / multiple	
max. RCF <sup>2)</sup>	2,576	2,522	2,665	2,665	2,665	2,665	2,719	2,808	2,719	2,808	2,665	2,808	2,003	
radius in mm	144	141	149	149	149	149	152	157	152	157	149	157	112	
<b>Cat. No.</b>	<b>tubes<sup>2)</sup></b>											<b>-</b>	<b>-</b>	<b>cyto chambers</b>
<b>+</b>														
<b>Carrier</b>	with decan- ting aid		with decan- ting aid	with decan- ting aid										
boring Ø x L in mm	12.5x64.4	13.5x65	12.5x71.5	12.5x71.5	14.6x74	17.6x71.5	21.5x74	26x78	32x74	35x78	17.6x71.5	26x78	-	
vessels per rotor	24	102	24	24	30	24	12	12	6	6	24	12	6	
<b>Cat. No.</b>	<b>1369-91</b>	<b>1372</b>	<b>1369-92</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>	<b>1660</b>	

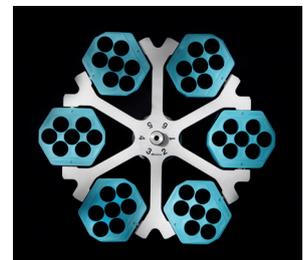
**CYTO** Cyto system available for this model. More information on [page 178](#)

## — SWING-OUT ROTOR, 6-PLACE | 1726



<b>Rotor</b>	
max. RPM   max. RCF	4,000 min <sup>-1</sup>   2,808
max. capacity	42 x 15 ml
run-up   run-down, braked in sec	19   18
angle   max. noise level	90°   54 dB (A)
temperature in °C <sup>1)</sup>	-6
<b>Cat. No.</b>	<b>1726</b>

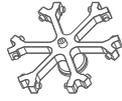
<b>+</b>	<b>Carrier</b>
<b>Cat. No.</b>	<b>1742</b>



<b>Vessels</b>										
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
max. RCF <sup>2)</sup>	2,808	2,683	2,683	2,808	2,808	2,808	2,683	2,683	2,808	2,808
radius in mm	157	150	150	157	157	157	150	150	157	157
<b>Cat. No.</b>	<b>-<sup>2)</sup></b>	<b>blood collection tubes / urine tubes</b>								<b>-</b>
<b>+</b>										
<b>Spacer</b>		Spacer	Spacer			<sup>21)</sup> Spacer	Spacer			<sup>21)</sup>
boring Ø x L in mm	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78
vessels per rotor	42	42	42	42	42	18	42	42	42	18
<b>Cat. No.</b>	<b>-</b>	<b>0716</b>	<b>0716</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0716</b>	<b>0716</b>	<b>-</b>	<b>-</b>

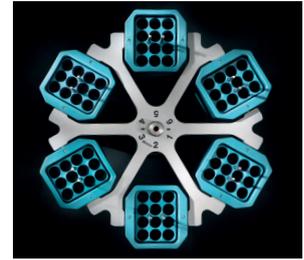
1) For cooled versions: Lowest temperature achievable with precooling and max. speed.  
 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.  
 21) Adapter must be loaded as illustrated.

## — SWING-OUT ROTOR, 6-PLACE | 1726

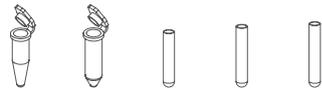


<b>Rotor</b>	
max. RPM   max. RCF	4,000 min <sup>-1</sup>   2,325
max. capacity	72 x 4 ml
run-up   run-down, braked in sec	19   18
angle   max. noise level	90°   54 dB (A)
temperature in °C <sup>1)</sup>	-6
<b>Cat. No.</b>	<b>1726</b>

<b>Bucket</b>	
<b>Cat. No.</b>	<b>1366</b>



<b>Vessels</b>					
capacity in ml	1.5	2.0	1	3	4
Ø x L in mm	11 x 38	11 x 38	6 x 45	10 x 60	12 x 60
max. RCF <sup>2)</sup>	2,325	2,325	2,308	2,290	2,290
radius in mm	130	130	129	128	128
<b>Cat. No.</b>	<b>microliter tubes</b>	<b>Rhesus</b>	<b>tubes<sup>2)</sup></b>		



<b>Adapter</b>					
boring Ø x L in mm	11.5 x 38	11.5 x 38	6.5 x 23	10.5 x 23	12.5 x 44
vessels per rotor	54	54	180	72	72
<b>Cat. No.</b>	<b>5277</b>	<b>5277</b>	<b>1357</b>	<b>1327</b>	<b>1326</b>

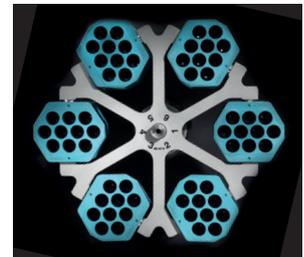


## — SWING-OUT ROTOR, 6-PLACE | 1726

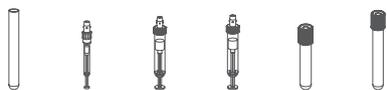


<b>Rotor</b>	
max. RPM   max. RCF	4,000 min <sup>-1</sup>   2,808
max. capacity	60 x 9 ml
run-up   run-down, braked in sec	19   18
angle   max. noise level	90°   54 dB (A)
temperature in °C <sup>1)</sup>	-6
<b>Cat. No.</b>	<b>1726</b>

<b>Carrier</b>	
<b>Cat. No.</b>	<b>1741</b>



<b>Vessels</b>						
capacity in ml	9	1.1 – 1.4	4.5 – 5	4.9	1.6 – 5	4 – 7
Ø x L in mm	14 x 100	8 x 66	11 x 92	13 x 90	13 x 75	13 x 100
max. RCF <sup>2)</sup>	2,773	2,773	2,808	2,808	2,486	2,808
radius in mm	155	155	157	157	139	157
<b>Cat. No.</b>	<b>-<sup>2)</sup></b>	<b>blood collection tubes / urine tubes</b>				

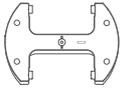


<b>Adapter</b>						
boring Ø x L in mm	14.6 x 78	14.6 x 78	14.6 x 78 <sup>2)</sup>	14.6 x 78	14.6 x 78	14.6 x 78
vessels per rotor	60	60	36	60	60	60
<b>Cat. No.</b>	<b>0701</b>	<b>0701</b>	<b>-</b>	<b>-</b>	<b>6x0768<sup>16)</sup></b>	<b>-</b>



- 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.
- 16) Packaging unit 10 pieces.
- 21) Adapter must be loaded as illustrated.

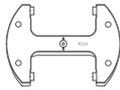
## SWING-OUT ROTOR, 2-PLACE | 1760

	
<b>Rotor</b>	
max. RPM   max. RCF	4,000 min <sup>-1</sup>   2,397
max. capacity	10 plates
run-up   run-down, braked in sec	30   23
angle   max. noise level	90°   54 dB (A)
temperature in °C <sup>1)</sup>	-8
<b>Cat. No.</b>	<b>1760</b>



<b>Plates</b>									
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	84x59x11	124x82x20	-
capacity in ml	-	-	-	-	-	-	-	-	0.2
max. RCF <sup>2)</sup>	2,397	2,397	2,397	2,397	2,397	2,397	2,397	2,397	2,397
radius in mm	134	134	134	134	134	134	134	134	134
<b>Cat. No.</b>	<b>MTP</b>	<b>MTP</b>	<b>CP</b>	<b>DWP</b>	<b>MS</b>	<b>QP</b>	<b>Microtest plates</b>	<b>PCR plate</b>	<b>PCR strips</b>
<b>+</b>									
<b>Bucket</b>									
boring Ø x L in mm	-	-	-	-	-	-	-	-	-
plates / strips per rotor	10	8	6	2	2	2	4	2	24 x 8
<b>Cat. No.</b>	<b>1753-A</b>	<b>1753-A+1485</b>	<b>1753-A+1485</b>						

## SWING-OUT ROTOR, 2-PLACE | 1770

	
<b>Rotor</b>	
max. RPM   max. RCF	5,100 min <sup>-1</sup>   3,926
capacity in ml	12 plates
run-up   run-down, braked in sec	65   30
angle   temperature in °C <sup>1)</sup>	90°   -3
<b>Cat. No.</b>	<b>1770</b>

<b>+</b>	
<b>Bucket</b>	
lid bioseal <sup>®</sup>	4627
<b>Cat. No.</b>	<b>4745</b>



<b>Plates</b>									
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	84x59x11	124x82x20	-
Ø x L in mm	-	-	-	-	-	-	-	-	0,2
max. RCF <sup>2)</sup>	3,926	3,926	3,926	3,926	3,926	3,926	3,926	3,926	3,926
radius in mm	135	135	135	135	135	135	135	135	135
<b>Cat. No.</b>	<b>MTP</b>	<b>MTP</b>	<b>CP</b>	<b>DWP</b>	<b>MS</b>	<b>QP</b>	<b>Microtest plates</b>	<b>PCR plate</b>	<b>PCR strips</b>
<b>+</b>									
<b>Removal frame</b>									
boring Ø x L in mm	-	-	-	-	-	-	-	-	-
plates / strips per rotor	12	10	8	2	2	2	4	2	24 x 8
<b>Cat. No.</b>	<b>4626</b>	<b>4626 + 1485</b>	<b>4626 + 1485</b>						

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.

## ANGLE ROTOR, 6-PLACE | 1720



### Rotor

max. RPM	ROTINA 380   380 R	10,000 min <sup>-1</sup>   11,000 min <sup>-1</sup>
max. RCF		13,528   16,369
max. capacity		6 x 94 ml
run-up / run-down, braked in sec		39 / 36   45 / 44
angle   max. noise level		45°   59 dB (A)
temperature in °C <sup>1)</sup>		+1
<b>Cat. No.</b>		<b>1720</b>

### Vessels



capacity in ml	1.5	2.0	15	25	50	94	7.5 – 8.5	9 – 10	8.5 – 10	5	15	50	10	30	50	
Ø x L in mm	11 x 38	11 x 38	17 x 100	24 x 100	34 x 100	38 x 102	15 x 92	16 x 92	16 x 100	17 x 59	17 x 120	29 x 115	16 x 80	26 x 95	29 x 107	
max. RCF <sup>2)</sup>	ROTINA 380	12,969	12,969	12,745	12,410	13,304	13,528	12,745	12,745	12,745	12,857	13,081	12,745	12,410	12,410	12,969
max. RCF <sup>2)</sup>	ROTINA 380 R	15,692	15,692	15,422	15,016	16,098	16,369	15,422	15,422	15,422	15,557	15,828	15,422	15,016	15,016	15,692
radius in mm	116	116	114	111	119	121	114	114	114	115	117	114	111	111	116	
<b>Cat. No.</b>		<b>microliter tubes</b>			<b>tubes<sup>2)</sup></b>			<b>blood collection tubes / urine tubes</b>			-	<b>tubes with screw cap</b>				



### 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	38.4 x 89	17.5 x 92	17.5 x 92	17.5 x 92	17 x 51	17 x 106	29.8 x 97	16.5 x 74	26 x 85	29 x 92
vessels per rotor	24	24	6	6	6	6	6	6	6	6	6	6	12	6	6
<b>Cat. No.</b>	<b>1449</b>	<b>1449</b>	<b>1451</b>	<b>1447</b>	<b>1463</b>	-	<b>1451</b>	<b>1451</b>	<b>1451</b>	<b>1476</b>	<b>1466</b>	<b>1454</b>	<b>1448</b>	<b>1447</b>	<b>1446</b>



### Vessels

capacity in ml	85	94	
Ø x L in mm	38 x 106	38 x 102	
max. RCF <sup>2)</sup>	ROTINA 380	13,528	13,528
max. RCF <sup>2)</sup>	ROTINA 380 R	16,369	16,369
radius in mm	121	121	
<b>Cat. No.</b>		<b>tubes with screw cap</b>	



### Adapter

boring Ø x L in mm	38.4 x 89	38.4 x 89
vessels per rotor	6	6
<b>Cat. No.</b>	-	-

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.

## — ANGLE ROTOR, 6-PLACE | 1792



### Rotor

max. RPM	ROTINA 380   380 R	10,000 min <sup>-1</sup>   11,000 min <sup>-1</sup>
max. RCF		13,640   16,504
max. capacity		6 x 94 ml
run-up   run-down, braked in sec		40 / 37   48 / 44
angle   max. noise level		45°   59 dB (A)
temperature in °C <sup>1)</sup>		+4

<b>Cat. No.</b>	<b>1792</b>
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### + lid bioseal<sup>9)</sup>

<b>Cat. No.</b>	<b>INCLUSIVE</b>
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### Vessels

capacity in ml	1.5	2.0	15	25	50	94	7.5 – 8.5	9 – 10	10	8.5 – 10	5	15	50	10	30	
Ø x L in mm	11 x 38	11 x 38	17 x 100	24 x 100	34 x 100	38 x 102	15 x 92	16 x 92	15 x 102	16 x 100	17 x 59	17 x 120	29 x 115	16 x 80	26 x 95	
max. RCF <sup>2)</sup>	ROTINA 380	13,081	13,081	12,857	12,522	13,416	13,640	12,857	12,857	12,857	12,857	12,745	13,081	13,304	12,857	12,522
max. RCF <sup>2)</sup>	ROTINA 380 R	15,828	15,828	15,557	15,151	16,233	16,504	15,557	15,557	15,557	15,557	15,422	15,828	16,098	15,557	15,151
radius in mm	117	117	115	112	120	122	115	115	115	115	114	117	119	115	112	
<b>Cat. No.</b>	<b>microliter tubes</b>	<b>tubes<sup>2)</sup></b>					<b>blood collection tubes / urine tubes</b>				<b>-</b>	<b>tubes with screw cap</b>				



### Adapter

boring Ø x L in mm	11.4x39	11.4x39	17.5x92	26x85	35x89	38.2x89.6	17.5x92	17.5x92	17.5x92	17.5x92	17x51	17x106	29.8x97	16.5x74	26x85
vessels per rotor	24	24	6	6	6	6	6	6	6	6	6	6	6	12	6
<b>Cat. No.</b>	<b>1449</b>	<b>1449</b>	<b>1451</b>	<b>1447</b>	<b>1463</b>	<b>-</b>	<b>1451</b>	<b>1451</b>	<b>1451</b>	<b>1451</b>	<b>1476</b>	<b>1466</b>	<b>1454</b>	<b>1448</b>	<b>1447</b>

### Vessels

capacity in ml	50	85	
Ø x L in mm	29 x 107	38 x 106	
max. RCF <sup>2)</sup>	ROTINA 380	13,081	13,640
max. RCF <sup>2)</sup>	ROTINA 380 R	15,828	16,504
radius in mm	117	122	
<b>Cat. No.</b>	<b>tubes with screw cap</b>		



### Adapter

boring Ø x L in mm	29 x 92	38.2 x 89.6
vessels per rotor	6	6
<b>Cat. No.</b>	<b>1446</b>	<b>-</b>

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

## — ANGLE ROTOR, 30-PLACE | 1789-A



### Rotor

max. RPM   max. RCF	15,000 min <sup>-1</sup>   24,400 min <sup>-1</sup>
max. capacity	30 x 2 ml
run-up   run-down, braked in sec	24   24
angle   max. noise level	45°   60 dB (A)
temperature in °C <sup>1)</sup>	+4

<b>Cat. No.</b>	<b>1789-A</b>
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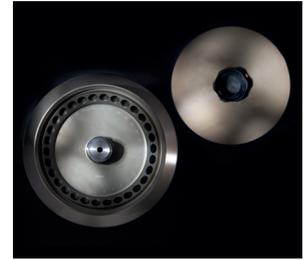


Lid bioseal<sup>5)</sup>, phenol-resistant

<b>Cat. No.</b>	
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**INCLUSIVE**



### Vessels



capacity in ml	0.2	0.4	0.5	0.8	1.5	2	0.5
Ø x L in mm	6x18	6x45	8x30	8x45	11x38	11x38	10.7x36
max. RCF <sup>2)</sup>	24,400	24,400	24,400	24,400	24,400	24,400	23,394
radius in mm	97	97	97	97	97	97	93

<b>Cat. No.</b>	<b>microliter tubes</b>						<b>Pediatric</b>
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### Adapter



boring Ø x L in mm	6x40	6x40	8x40	8x40	10.2x19.3	11.2x40.9	11.2x40.9
vessels per rotor	30	30	30	30	30	30	15

<b>Cat. No.</b>	<b>2024</b>	<b>2024</b>	<b>2023</b>	<b>2023</b>	<b>2031<sup>7)</sup></b>	<b>-</b>	<b>0788<sup>17)</sup></b>
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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.

## CERTIFICATIONS / REGISTRATIONS

Product certification:



Product registration:



according to regulation (EU) 2017/746

Company certifications:

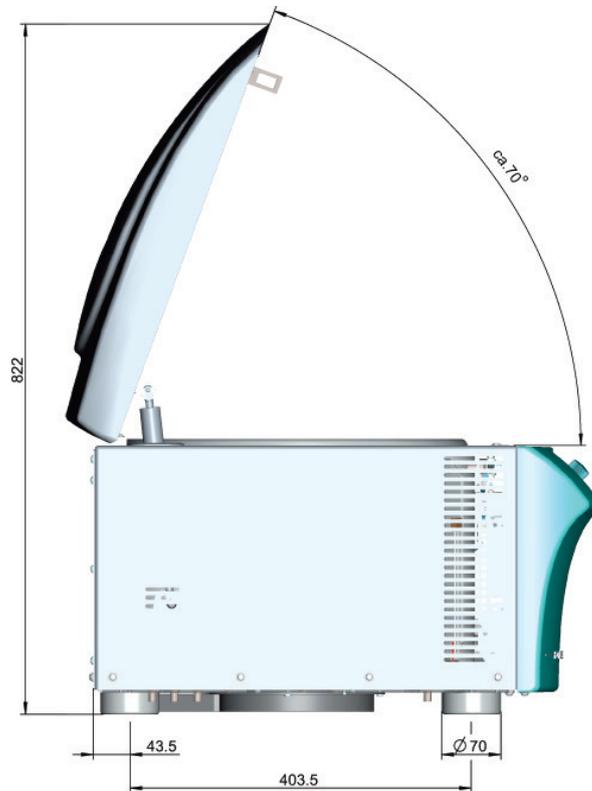
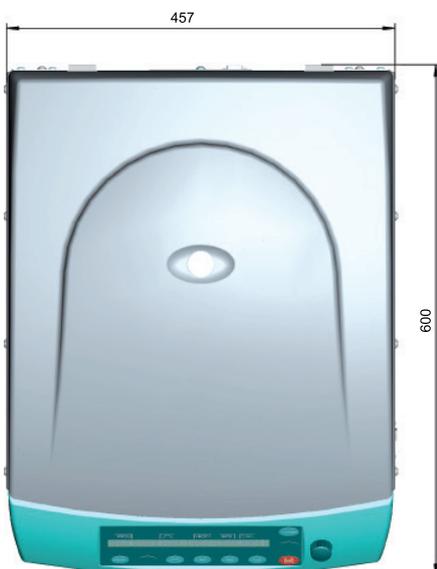


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## DIMENSIONS



## DIMENSIONS

