


# ROTINA 380/380 R

## Benchtop Centrifuges

## classic/cooled

Hettich
ZENTRIFUGEN

# ROTINA 380/380 R

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 16.504 for 50 ml 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. 36 x 15 ml
- High RCF
  - up to 16.504 for 50 ml tubes and 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**

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.

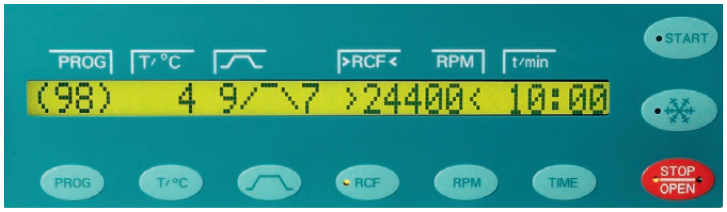
## DIGITAL DISPLAY AND CONTROL PANEL

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




ROTINA 380 R control panel (C control panel)




ROTINA 380 R cooled

**Cat. No. 1706**

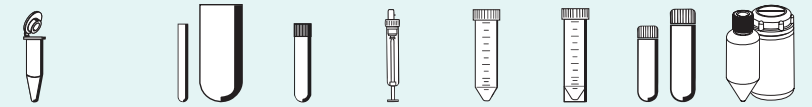
Quick overview of rotors and suitable accessories. The figures highlighted under the arrows refer to the pages where technical and ordering details are listed.



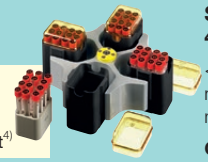

**Swing-out rotor 4-place**

∢ 90°
n = 5,000 min$^{-1}$
max. RCF 4,863

**Cat. No. 1754**



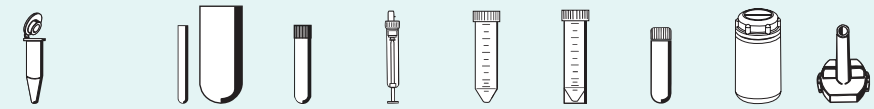

→ P.6-7




**Swing-out rotor 4-place**

∢ 90°
n = 4,000 min$^{-1}$
max. RCF 3,095

**Cat. No. 1798**



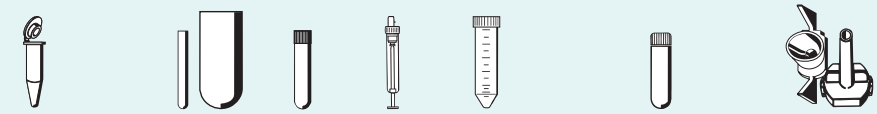

→ P.8-11



**Swing-out rotor 6-place**

∢ 90°
n = 4,000 min$^{-1}$
max. RCF 2,808

**Cat. No. 1726**




→ P.12-13



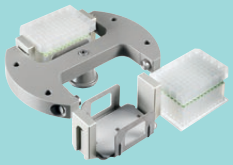
**Swing-out rotor 10-place**

∢ 45°
n = 4,000 min$^{-1}$
max. RCF 2,916

**Cat. No. 1717**



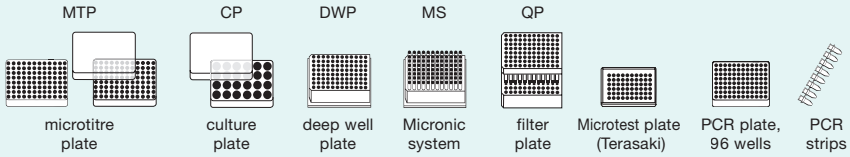

→ P.14



**Swing-out rotor 2-place**

∢ 90°
n = 4,000 min$^{-1}$
max. RCF 2,397

**Cat. No. 1760**




→ P.14



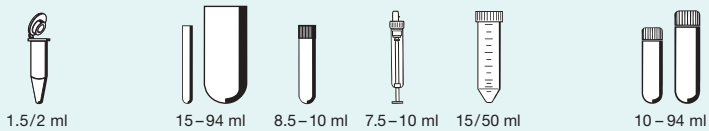
**Angle rotor 6-place**

∢ 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.15

[4] Tested by the TÜV in conformity with DIN EN 61010, section 2-020.



with bio-containment[4)]

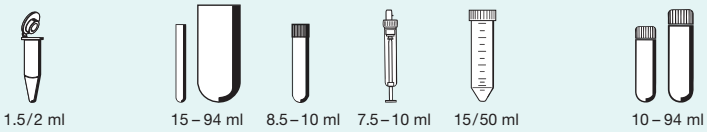
**Angle rotor 6-place**

∢ 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.16



with bio-containment[4)]

**Angle rotor 30-place**

∢ 45°
n = 15,000 min$^{-1}$
max. RCF 24,400

**Cat. No. 1789-A**




→ P.17



**Drum rotor 6-place**

n = 15,000 min$^{-1}$
max. RCF 18,866

**Cat. No. 1711**




→ P.17



**Angle rotor 8-place**

∢ 45°
n = 4,500 min$^{-1}$
max. RCF 3,305

**Cat. No. 1721**




→ P.18



**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.

→ P.18

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

## Swing-out rotor, 4-place

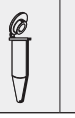


90°

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

illustrated with carriers 1752 and lids 1751
with bio-containment[4)]

**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 |
| **Cat. No.** | **2078** | **0536** | **-** | | **0553**[2)] | **0501**[2)] | **0578**[2)] | **0500**[2)] | **2079** | **0518**[2)] | **-** | **0519**[2)] | **-** | **0521**[2)] | **0548** |
| lid with bio-containment[4)] Cat. No. **1751** |  | | | | | | | | | | | | | | |
| **carrier** Cat. No. **1752** |  | |  | |  | | |  | | |  | |  | |
| **Cat. No.** | **1761** | | **1761** | **1762-A** | | | | **1763-A** | | | **1764** | | **1765** | | |
| 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[2)] 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[1)] | 0 | | | | | | | | | | | | | | |

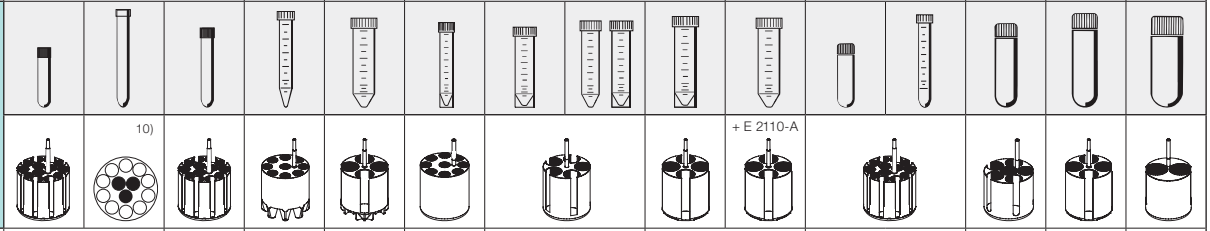
| capacity in ml | 94 | 100 | 100 | 250 | 1.1–1.4 | 2.6–3.4 | 2.7–3 | 4–5.5 | 4.5–5 | 4.9 | 7.5–8.5 | 9–10 | 10 | 1.6–5 | 4–7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ø x L in mm | 38x102 | 40x115 | 44x100 | 65x115 | 8x66 | 13x65 | 11x66 | 15x75 | 11x92 | 13x90 | 15x92 | 16x92 | 15x102 | 13x75 | 13x100 |
| **Cat. No.** | **0549** | **0523**[2)] | **0526**[2)] | **0530**[2)] | **blood collection/urine tubes** | | | | | | | | | | |
| lid with bio-containment[4)] Cat. No. **1751** |  | | | | | | | | | | | | | | |
| **carrier** Cat. No. **1752** |  | |  | |  | | |  | | |  | |  | |
| **Cat. No.** | **1777** | **1767** | **1766** | **1768** | **1781** | **1783-A** | **1762-A** | **1763-A** | **1762-A** | **1783-A** | **1763-A** | | **1783-A** | | |
| boring Ø x L in mm | 38.5x80 | 41x97 | 45x87 | 66x104.5 | 9x49 | 13.5x54 | 12.5x56 | 17.5x62 | 12.5x56 | 13.5x54 | 17.5x62 | | 13.5x54 | | |
| tubes per rotor | 8 | 4 | 4 | 4 | 96 | 64 | 96 | 52 | 96 | 64 | 52 | | 64 | | |
| max. RCF[2)] | 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[1)] | 0 | | | | | | | | | | | | | | |

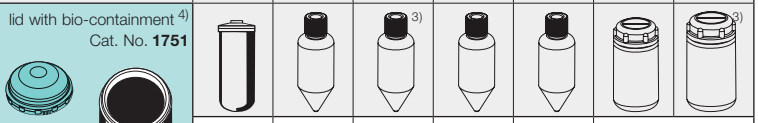
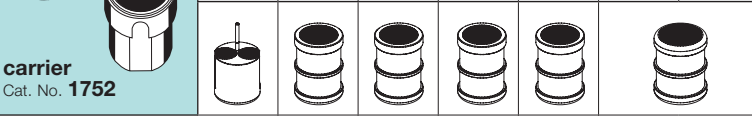
1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be reached by reducing the speed.
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. 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.



illustrated with carriers 1752 and lids 1751
with bio-containment[4)]

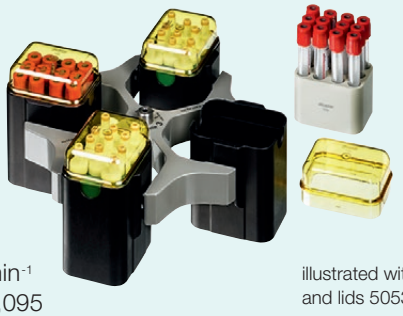
## Swing-out rotor Cat. No. (without carriers) 1754

| capacity in ml | 4–7 | 8 | 8,5–10 | 15 | 50 | 12 | 25 | 30 | 50 | 50 | 10 | 14 | 30 | 50 | 85 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ø x L in mm | 16x75 | 16x125 | 16x100 | 17x120 | 29x115 | 17x100 | 25x90 | 25x110 | 29x115 | 29x115 | 16x80 | 16,5x106 | 26x95 | 29x107 | 38x106 |
| **Cat. No.** | **blood/urine tubes** | | | **0509** | **0513** | **-** | | | | **0513** | **-** | | **0545** | **0546** | **0547** |
| lid with bio-containment [4)] Cat. No. **1751** / **carrier** Cat. No. **1752** |  | | | | | | | | |  | | | | | |
| | | 10) | | | | | | | | + E 2110-A | | | | | |
| **Cat. No.** | **1763-A** | | **1763-A** | **1771-A** | **1772-A** | **1773** | **1779** | | **1774-A** | | **1763-A** | | **1775** | **1774-A** | **1777** |
| boring Ø x L in mm | 17.5x62 | | 17.5x62 | 17x84 | 30x84 | 17x78 | 26.5x72 | | 30x80 | | 17.5x62 | | 26.5x70 | 30x80 | 38.5x80 |
| tubes per rotor | 52 | 12 | 52 | 36 | 16 | 36 | 20 | | 16 | | 52 | | 24 | 16 | 8 |
| max. RCF [2)] | 4,668 | | | 4,863 | 4,863 | 4,696 | 4,528 | | 4,752 | | 4,668 | | 4,807 | 4,752 | 4,807 |
| radius in mm | 167 | | | 174 | 174 | 168 | 162 | | 170 | | 167 | | 172 | 170 | 172 |
| run-up in sec | 42 | | | | | | | | | | | | | | |
| run-down in sec, braked | 27 | | | | | | | | | | | | | | |
| temperature in °C[1)] | 0 | | | | | | | | | | | | | | |

| capacity in ml | 94 | 175 | 175 | 200 | 225 | 250 | 290 |
|---|---|---|---|---|---|---|---|
| Ø x L in mm | 38x102 | 61x118 | 62x144 | 60x130 | 61x137 | 61x122 | 62x137 |
| **Cat. No.** | **0538**[5)] | **Falcon®** | **Nalgene®** | **Nunc®** | **Falcon®** | **5127**[6)] | **-**[6)] |
| lid with bio-containment [4)] Cat. No. **1751** / **carrier** Cat. No. **1752** |  | | 3) | | | | 3) |
| |  | | | | | | |
| **Cat. No.** | **1777** | **1782** | **1778** | **1778** | **1782** | **1769** | |
| boring Ø x L in mm | 38.5x80 | 62x111 | 62x111 | 62x111 | 62x111 | 62x100 | |
| tubes per rotor | 8 | 4 | | | | | |
| max. RCF [2)] | 4,807 | 4,863 | | | | | |
| radius in mm | 172 | 174 | | | | | |
| run-up in sec | 42 | | | | | | |
| run-down in sec, braked | 27 | | | | | | |
| temperature in °C[1)] | 0 | | | | | | |

4) Tested by the TÜV in conformity with DIN EN 61010, section 2-020.
5) The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 106 mm.
6) At temperatures of over + 40 °C and / or when not filled to capacity, bottles may warp during centrifugation.
10) Carrier must be loaded as illustrated.

## Swing-out rotor, 4-place

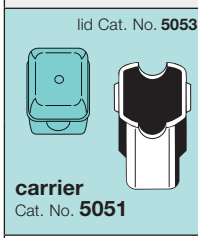


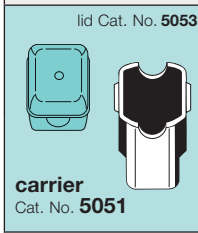
90°

n = 4,000 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 | 11x38 | | 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**[7] | **5264** | **5248**[7] | **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 | 24 | | | | | | | | | | | |
| run-down in sec, braked | 17 | | | | | | | | | | | |
| temperature in °C[1] | -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 |
| **Cat. No.** | **blood collection/urine tubes** | | | | | | | | | | | | |
| lid Cat. No. **5053** / **carrier** Cat. No. **5051** |  | | | | | | | | [3] | | | | |
| **Cat. No.** | **5267** | **5268** | **5227** | **5264** | **5227** | **5268** | **5264** | **5258** | | **5268** | | **5264** | **5248** |
| boring Ø x L in mm | 11x44 | 13.5x52 | 12.5x42 | 16x50 | 12.5x42 | 13.5x52 | 16x50 | 17.6x86 | | 13.5x52 | | 16x50 | 17.5x86 |
| 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 | 24 | | | | | | | | | | | | |
| run-down in sec, braked | 17 | | | | | | | | | | | | |
| 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 resp. 5092 cannot be closed with lid 5053 resp. 5093.



illustrated with carriers 5051 and lids 5053

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

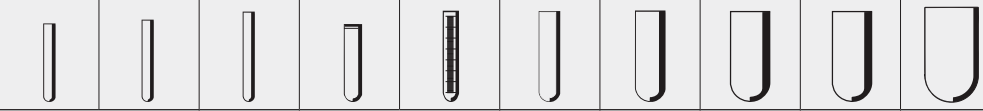
| capacity in ml | 15 | 30 | 50 | 12 | 30 | 50 | two-tier frame for cyto accessories |
|---|---|---|---|---|---|---|---|
| Ø x L in mm | 17x120 | 25x110 | 29x115 | 17x100 | 25x110 | 29x115 | |
| **Cat. No.** | **0509** | **-** | **0513** | **-** | **-** | **-** | **cyto chambers**[8] |
| lid Cat. No. **5053**<br>**carrier**<br>Cat. No. **5051** | [3] | [3] | [3] | | [3] | [3] | |
| | | | | | | + 2 x 6316 | |
| **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 | 24 | | | | | | |
| run-down in sec, braked | 17 | | | | | | |
| temperature in °C[1] | -8 | | | | | | |

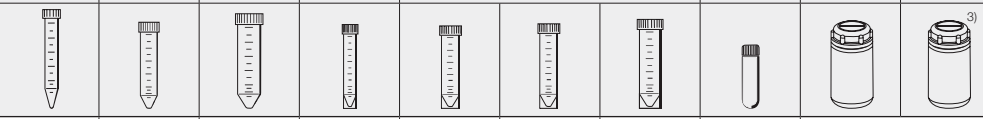
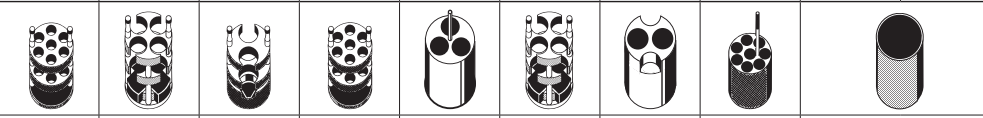
[7] With Cat. No. 5247-91 or 5248-91 these adapters can also be ordered with a decanting aid.
[8] Please ask for our detailed cyto brochure.



illustrated with carriers 5092 and lids 5093
with bio-containment[4)]

## Swing-out rotor Cat. No. (without carriers) 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 |
| **Cat. No.** | **0553**[2)] | **0501**[2)] | **0578**[2)] | **2079** | **0518**[2)] | **0519**[2)] | **0521**[2)] | **0526**[2)] | **0523**[2)] | **0530**[2)] |
| lid with bio-containment[4)] Cat. No. **5093** |  | | | | | | | | | |
| **carrier** Cat. No. **5092** |  | | | | | | | | | |
| **Cat. No.** | **5128** | | **5120** | **5136** | | **5122** | **5124** | **5125** | **5126** | **1791** |
| 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[2)] | 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[1)] | -8 | | | | | | | | | |

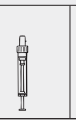
| capacity in ml | 15 | 30 | 50 | 12 | 25 | 30 | 50 | 10 | 250 | 290 |
|---|---|---|---|---|---|---|---|---|---|---|
| Ø x L in mm | 17x120 | 25x110 | 29x115 | 17x100 | 25x90 | 25x110 | 29x115 | 16x80 | 61x122 | 62x137 |
| **Cat. No.** | **0509** | **-** | **0513** | **-** | **-** | | | **-** | **5127**[6)] | **-**[6)] |
| lid with bio-containment[4)] Cat. No. **5093** |  | | | | | | | | | [3)] |
| **carrier** Cat. No. **5092** |  | | | | | | | | | |
| **Cat. No.** | **5129**[9)] | **5122** | **5123** | **5121** | **5134** | **5122** | **5135** | **5136** | **6319** | |
| 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[2)] | 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[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 5092 cannot be closed with lid 5093.



illustrated with carriers 5092 and lids 5093
with bio-containment[4)]

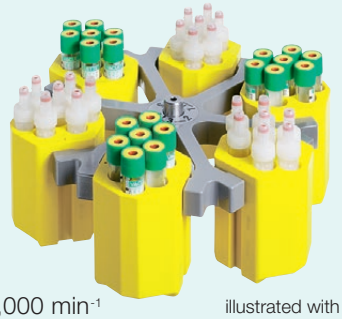
**Swing-out rotor Cat. No.** (without carriers) **1798**

| 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 |
| **Cat. No.** | **blood collection/urine tube** | | | | | | | | | | | |
| lid with bio-containment[4)] Cat. No. **5093** |  | | | | | | | | | | | |
| **carrier** Cat. No. **5092** | |  | |  |  |  | |  | |  |  |  |
| **Cat. No.** | **5138** | | | **5136** | **5120** | **5137** | **5136** | | | **5138** | **5136** | **5121-93** |
| 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[2)] | 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[1)] | -8 | | | | | | | | | | | |

| capacity in ml | 4–7 | 8 | 8.5–10 |
|---|---|---|---|
| Ø x L in mm | 13x100 | 16x125 | 16x100 |
| **Cat. No.** | **blood/urine tubes** | | |
| lid with bio-containment[4)] Cat. No. **5093** |  |  [3)] |  |
| **carrier** Cat. No. **5092** |  |  |  |
| **Cat. No.** | **5120** | **5121**[9)] | **5136** |
| boring Ø x L in mm | 12.8x82 | 17.5x82 | 17.5x60.7 |
| tubes per rotor | 48 | 28 | 32 |
| max. RCF[2)] | 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[1)] | -8 | | |

4) Tested by the TÜV in conformity with DIN EN 61010, section 2-020.
6) At temperatures of over + 40 °C and / or when not filled to capacity, bottles may warp during centrifugation.
9) Please remove the inserts.

## Swing-out rotor, 6-place



90°

n = 4,000 min$^{-1}$

max. RCF 2,808

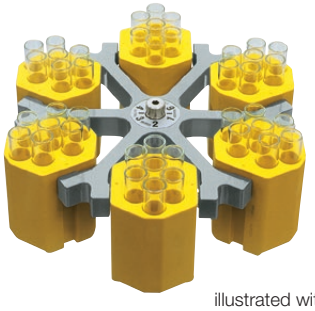
illustrated with carriers 1742

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

| capacity in ml | 5 | | 6 | 7 | 9 | 15 | 20 | 25 | 45 | 50 | 8.5 x 10 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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] | **-** | **0519**[2] | **-** | **0521**[2] | **blood coll. tube** | **0545** |
| **rotor** Cat. No. **1726** | | | | | | | | | | | | |
| | with decanting aid | | with decanting aid | with decanting aid | | | | | | | | |
| **Cat. No.** | **1369-91** | **1372** | **1369-92** | | **1370** | **1369** | **1346** | **1745** | **1345** | **1746** | **1369** | **1745** |
| 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[2] | 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[1] | -6 | | | | | | | | | | | |

| capacity in ml | suspensions for cyto accessories | |
|---|---|---|
| Ø x L in mm | | |
| **Cat. No.** | **cyto chambers**[8] | |
| **rotor** Cat. No. **1726** | | |
| **Cat. No.** | **1660** | **1680** |
| boring Ø x L in mm | - | |
| tubes per rotor | 6 | |
| max. RCF[2] | 2,003 | 1,825 |
| radius in mm | 112 | 102 |
| run-up in sec | 19 | |
| run-down in sec, braked | 18 | |
| temperature in °C[1] | -6 | |

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.
8) Please ask for our detailed cyto brochure.



illustrated with carriers 1742

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

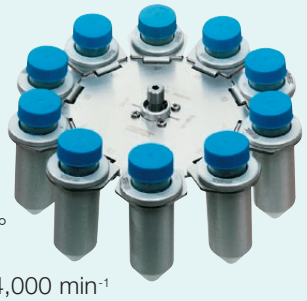
| capacity in ml | 15 | 2.6–3.4 | 4–5.5 | 7.5–8.5 | 9–10 | 10 | 1.6–5 | 4–7 | 8.5–10 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|
| Ø x L in mm | 17x100 | 13x65 | 15x75 | 15x92 | 16x92 | 15x102 | 13x75 | 16x75 | 16x100 | 17x120 |
| **Cat. No.** | **0518**[2] | **blood collection/urine tubes** | | | | | | | | **0509** |
| **carrier** Cat. No. **1742** | | rubber insert | | | | [10] | rubber insert | | | [10] |
| **Cat. No.** | - | **0716** | | - | | - | **0716** | | - | |
| boring Ø x L in mm | 17.6x78 | | | | | | | | | |
| 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 | 19 | | | | | | | | | |
| run-down in sec, braked | 18 | | | | | | | | | |
| temperature in °C[1] | -6 | | | | | | | | | |

| 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 | 19 | | | | |
| run-down in sec, braked | 18 | | | | |
| temperature in °C[1] | -6 | | | | |

| 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 |
| **Cat. No.** | **0500**[2] | **blood collection tubes** | | | | |
| **carrier** Cat. No. **1741** | rubber insert | | [10] | | | |
| **Cat. No.** | **0701** | | - | - | **6x0768**[12] | - |
| boring Ø x L in mm | 14.6x78 | | | | | |
| tubes per rotor | 60 | | 36 | 60 | 60 | 60 |
| max. RCF[2] | 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[1] | -6 | | | | | |

[10] Carrier must be loaded as illustrated.
[12] Packed in units of 10 pieces.

## Swing-out rotor, 10-place

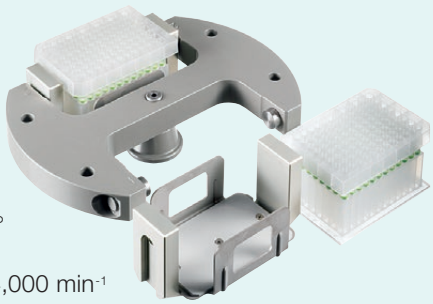


∢45°

n = 4,000 min$^{-1}$
max. RCF 2,916

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

## Swing-out rotor, 2-place

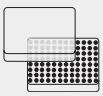
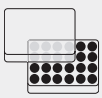


∢90°

n = 4,000 min$^{-1}$
max. RCF 2,397

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

| capacity in ml | 15 | 50 |
|---|---|---|
| Ø x L in mm | 17 x 120 | 29 x 115 |
| **Cat. No.** | **0509** | **0513** |
| **rotor** Cat. No. **1717** |  |  |
| |  | |
| **Cat. No.** | **1462-A** | **-** |
| boring Ø x L in mm | 17 x 84 | 38.4 x 89 |
| tubes per rotor | 10 | |
| max. RCF[2)] | 2,916 | |
| radius in mm | 163 | |
| run-up in sec | 19 | |
| run-down in sec, braked | 14 | |
| temperature in °C[1)] | - 9 | |

| 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-A** | | | | | | | **1753-A + 1485** | |
| 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 | 30 | | | | | | | | |
| run-down in sec, braked | 23 | | | | | | | | |
| 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.
[5)] The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38 x 106 mm.

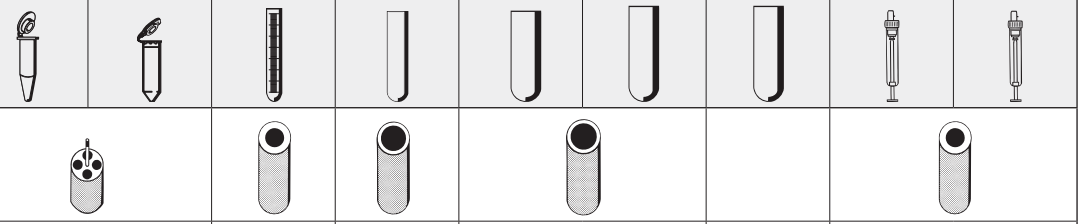
## Angle rotor, 6-place

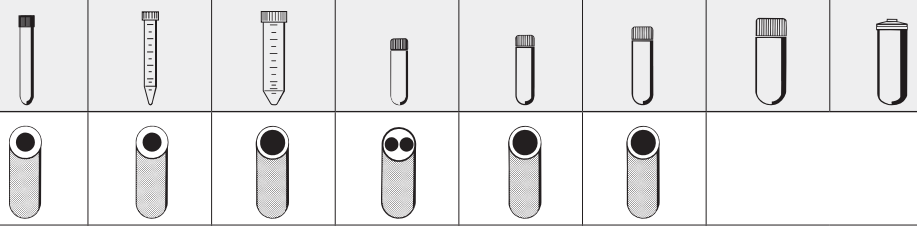


⊀45°

**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**

| 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 | 38 x 102 | 15x92 | 16x92 |
| **Cat. No.** | **2078** | **0536** | **0518**[2] | **0519**[2] | **0521**[2] | **0548** | **0549** | **blood/urine tubes** | |
|  **rotor** Cat. No. **1720** |  | | | | | | | | |
| **Cat. No.** | **1449** | | **1451** | **1447** | **1463** | | **-** | **1451** | |
| boring Ø x L in mm | 11.4x39 | | 17.5x92 | 26x85 | 35x89 | | 38.4x89 | 17.5x92 | |
| tubes per rotor | 24 | | 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** | 12,745/**15,422** | |
| radius in mm | 116 | | 114 | 111 | 119 | | 121 | 114 | |
| run-up in sec classic/**cooled** | 39/**45** | | | | | | | | |
| run-down in sec classic/**cooled**, braked | 36/**44** | | | | | | | | |
| temperature in °C[1] | +1 | | | | | | | | |

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

## Angle rotor, 6-place

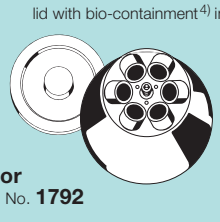


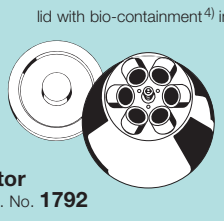
∢45°

with bio-containment[4]

**ROTINA 380 R n = 11,000 min$^{-1}$, max. RCF 16,504**
ROTINA 380 n = 10,000 min$^{-1}$, 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 | 11 x 38 | | 17 x 100 | 24 x 100 | 34 x 100 | 35 x 105 | 38 x 102 | 15 x 92 | 16 x 92 |
| **Cat. No.** | **2078** | **0536** | **0518**[2] | **0519**[2] | **0521**[2] | **0548** | **0549** | **blood/urine tubes** | |
| lid with bio-containment[4] 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** | 40/**48** | | | | | | | | |
| run-down in sec classic/**cooled**, braked | 37/**44** | | | | | | | | |
| temperature in °C[1] | +4 | | | | | | | | |

| capacity in ml | 10 | 8.5–10 | 15 | 50 | 10 | 30 | 50 | 85 | 94 |
|---|---|---|---|---|---|---|---|---|---|
| Ø x L in mm | 15 x 102 | 16 x 100 | 17 x 120 | 29 x 115 | 16 x 80 | 26 x 95 | 29 x 107 | 38 x 106 | 38 x 102 |
| **Cat. No.** | **blood/urine tubes** | | **0509** | **0513** | **-** | **0545** | **0546** | **0547** | **0538**[5] |
| lid with bio-containment[4] incl. **rotor** Cat. No. **1792** |  | | | | | | | | |
| **Cat. No.** | **1451** | | **1466** | **1454** | **1448** | **1447** | **1446** | **-** | |
| boring Ø x L in mm | 17.5 x 92 | | 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** | 12,857/**15,557** | | 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 | 115 | | 117 | 119 | 115 | 112 | 117 | 122 | |
| run-up in sec classic/**cooled** | 40/**48** | | | | | | | | |
| run-down in sec classic/**cooled**, braked | 37/**44** | | | | | | | | |
| 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.
[4] Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

## Angle rotor, 30-place



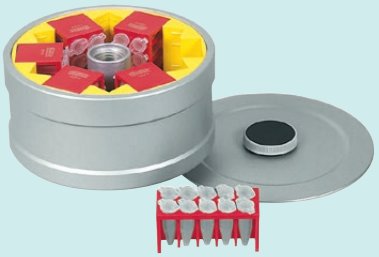
∢45°

n = 15,000 min$^{-1}$
max. RCF 24,400

with bio-containment[4]

**Cat. No. 1789-A**

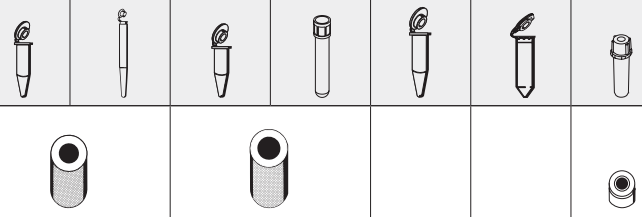
## Drum rotor, 6-place

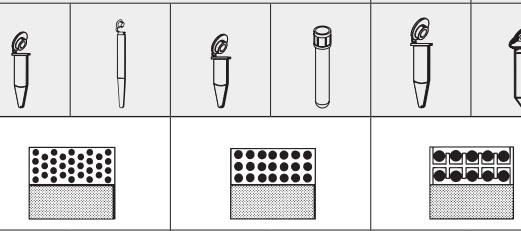


n = 15,000 min$^{-1}$
max. RCF 18,866

illustrated with adapters 1377

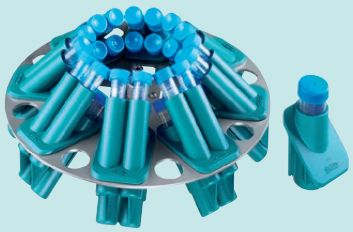
**Cat. No.** (without adapters) **1711**

| 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 |
| **Cat. No.** | - | | | | **2078** | **0536** | **Pediatric** |
| lid with bio-containment[4] incl. **rotor** Cat. No. **1789-A** |  | | | | | | |
| **Cat. No.** | **2024** | | **2023** | | **2031**[11] | **-** | **0788**[13] |
| boring Ø x L in mm | 6x40 | | 8x40 | | 10.2x19 | 11.2x40.9 | |
| tubes per rotor | 30 | | | | | | 15 |
| max. RCF[2] | 24,400 | | | | | | 23,394 |
| radius in mm | 97 | | | | | | 93 |
| run-up in sec | 24 | | | | | | |
| run-down in sec, braked | 24 | | | | | | |
| 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 | 6x18 | 6x45 | 8x30 | 8x45 | 11x38 | |
| **Cat. No.** | - | | | | **2078** | **0536** |
| lid incl. **rotor** Cat. No. **1711** |  | | | | | |
| **Cat. No.** | **1378** | | **1379** | | **1377** | |
| boring Ø x L in mm | 6x40 | | 8.4x43 | | 10.8x37 | |
| tubes per rotor | 192 | | 126 | | 60 | |
| max. RCF[2] | 18,866 | | | | | |
| radius in mm | 75 | | | | | |
| run-up in sec | 25 | | | | | |
| run-down in sec, braked | 23 | | | | | |
| temperature in °C[1] | +2 | | | | | |

[5] 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.
[13] Packed in units of 15 pieces.

## Angle rotor, 8-place




n = 4,500 min$^{-1}$
max. RCF 3,305

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

## Cyto rotor, 8-place



n = 4,000 min$^{-1}$
max. RCF 2,415

**Cat. No.** (without suspensions) **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.

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ø x L in mm | 12x75 | 17x100 | 8x66 | 13x65 | 11x66 | 16x92 | 13x75 | 13x100 | 16x100 | 17x102 | 17x120 | 29x115 |
| **Cat. No.** | **0553**[2] | **0518**[2] | **blood collection/urine tube** | | | | | | | | **0509** | **0513** |
| **rotor** Cat. No. **1721** | + 1054-A | + 0716 | + 1054-A | | | + 0716 | + 1054-A | | + 0716 | + 0716 | + E 2109 | + E 2110-A |
| **Cat. No.** | **1467** | **1467** | **1467** | | | | | | | | **1467** | **1468** |
| boring Ø x L in mm | 17.4x91 | | 17.4x91 | | | | | | | | 17.4x91 | 30.2x92 |
| tubes per rotor | 32 | | 32 | | | | | | | | 32 | 8 |
| max. RCF[2] | 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[1] | - 11 | | | | | | | | | | | |

| capacity in ml | 12 | 50 | 50 |
|---|---|---|---|
| Ø x L in mm | 17x100 | 29x115 | 29x107 |
| **Cat. No.** | **-** | **-** | **0546** |
| **rotor** Cat. No. **1721** | + 0716 | | |
| **Cat. No.** | **1467** | **1468** | |
| boring Ø x L in mm | 17.4x91 | 30.2x92 | |
| tubes per rotor | 32 | 8 | |
| max. RCF[2] | 3,215 | 3,147 | |
| radius in mm | 142 | 139 | |
| run-up in sec | 17 | | |
| run-down in sec, braked | 14 | | |
| 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.

Rolling cabinets for Hettich centrifuges save space on the laboratory bench while ensuring enhanced flexibility.

All rolling cabinets are of sturdy design and feature castors and two locks. Any vibrations of the centrifuge are safely compensated for.

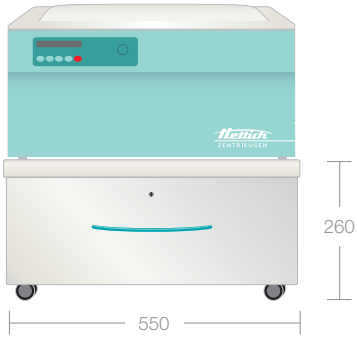
Rolling cabinets with Cat. No. 4612-A and 4613-K are suited for the models:

- **ROTOFIX 32 A**
- **UNIVERSAL 320 / 320 R**
- **ROTINA 380 / 380 R**
- **ROTINA 420**
- **ROTANTA 460**
- **ROTOFIX 46 / 46 H**

Rolling cabinets with Cat. No. 4614-K and 4615-A are suited for the models:

- **ROTINA 420 R**
- **ROTANTA 460 R**






Low and narrow,
with one drawer.
Depth 650 mm

**Cat. No. 4612-A**




Low and wide,
with one drawer.
Depth 650 mm

**Cat. No. 4614-K**




High and narrow,
with two drawers.
Depth 650 mm

**Cat. No. 4613-K**




High and wide,
with two drawers.
Depth 650 mm

**Cat. No. 4615-A**

# ROTINA 380/380 R

## TECHNOLOGY

| | ROTINA 380 | | ROTINA 380 R | |
|---|---|---|---|---|
| **Benchtop centrifuge, without rotor** | **classic** | | **cooled** | |
| Power supply*) | 200 – 240 V 1 ~ | 100 – 127 V 1 ~ | 200 – 240 V 1 ~ | 110 – 127 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 $min^{-1}$ | | | |
| Max. RCF | 24,400 | | | |
| Running time | 1 sec – 99 h : 59 min : 59 sec, ∞ continuous run, short cycle mode (impulse key) | | | |
| Dimensions (H x W x D) | 418 x 457 x 600 mm | | 418 x 457 x 750 mm | |
| Weight | approx. 51 kg | approx. 58.5 kg | approx. 81 kg | approx. 88.5 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, ISO 13485 and ISO 14001 certificates accredited to the company bear witness to the extreme care and responsibility Hettich puts into the manufacturing of centrifuges and their accessories.

We are an Authorised Economic Operator, which means you can expect expeditious customs clearance.

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LAB TECHNOLOGY

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