

Certificate

mdc medical device certification GmbH
certifies that



Andreas Hettich GmbH & Co. KG
Föhrenstraße 12
78532 Tuttlingen
Germany

for the scope

**Design, development, manufacturing, distribution and servicing of
laboratory centrifuges for IVD applications and general laboratory use,
centrifuges for separation of blood components for transfusion purposes and
microbiological incubators for IVD applications and general laboratory use**

has introduced and applies a

Quality Management System

The mdc audit has proven that this quality management system
meets all requirements of the following standard

EN ISO 13485

Medical devices – Quality management systems –
Requirements for regulatory purposes

EN ISO 13485:2016 + AC:2018 + A11:2021 - ISO 13485:2016

Valid from	2022-10-25
Valid until	2025-10-24
Registration no.	D1459300003
Report no.	P21-01967-222238
Stuttgart	2022-10-25

A blue ink signature, appearing to read "Dane", written in a cursive style.

Head of Certification Body





Management Service

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that



Andreas Hettich GmbH & Co. KG
Föhrenstr. 12
78532 Tuttlingen
Germany

has established and applies
a Quality Management System for

**Development, production and distribution of
laboratory equipment, accessories, spare parts
with the associated services.**

An audit was performed, Order No. **707111087**.

Proof has been furnished that the requirements
according to

ISO 9001:2015

are fulfilled.

The certificate is valid from **2021-06-10** until **2024-06-09**.

Certificate Registration No.: **12 100 59604 TMS**.

Head of Certification Body
Munich, 2021-05-27





Management Service

CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that



Andreas Hettich GmbH & Co. KG
Föhrenstr. 12
78532 Tuttlingen
Germany

has established and applies
an Environmental Management System for

**Development, production and distribution of
laboratory equipment, accessories, spare parts
with the associated services.**

An audit was performed, Order No. **707111087**.

Proof has been furnished that the requirements
according to

ISO 14001:2015

are fulfilled.

The certificate is valid from **2021-05-26** until **2024-05-25**.

Certificate Registration No.: **12 104 59604 TMS**.

Head of Certification Body
Munich, 2021-05-27



Andreas Hettich GmbH & Co. KG | Föhrenstraße 12 | 78532 Tuttlingen | Germany

To our customers

Michael Eberhard

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www.hettichlab.com

Dear Customer

Tuttlingen, 22.07.2021

RoHS 2011/65 / EU conformity and compliance with the Delegated Directive (EU) 2015/863

We hereby inform you that Andreas Hettich GmbH & Co. KG manufactures and delivers the products of the product groups

- Medical devices according to Directive 93/42/EEC, as well as their accessories and spare parts from July 22nd, 2014
- In-Vitro diagnostic devices according to Directive 98/79/EC, as well as their accessories and spare parts from July 22nd, 2016

conformal to EU Directive 2011/65/EU of the European Parliament and the Council of June 8th, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS II) as well as to the Delegated Directive (EU) 2015/863 of the Commission from March 31, 2015 amending Annex II of Directive 2011/65/EU.

The EC declarations of conformity for these products contain the 2011/65/EC and (EU) 2015/863 as applicable directives. They are part of the technical documentation of every product supplied.

Best regards,
Andreas Hettich GmbH & Co. KG



i.A. Michael Eberhard
Head of Regulatory & Quality Affairs

CUSTOMER INFORMATION

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christian.vondergruen@hettichlab.com
www.hettichlab.com

TRANSITION PHASE - MDR 2017/745 AND IVDR 2017/746

Tuttlingen, 09.04.2020

Dear valued Customer,

Andreas Hettich GmbH & Co. KG as legal manufacturer is required to comply with EU Medical Device Regulation 2017/745 and EU In-Vitro Diagnostic Medical Device Regulation 2017/746 for the following medical devices / in vitro diagnostic medical devices:

Medical Devices	ROTO SILENTA 630 RS, ROTIXA 500 RS, ROTANTA 460; ROTANTA 460R, ROTANTA 460RC; ROTANTA 460RF
IVD Medical Devices	EBA 200; EBA 200S, EBA 270, EBA 280; EBA 280S, MIKRO 220; MIKRO 220R, UNIVERSAL 320; UNIVERSAL 320R, MIKRO 185, MIKRO 200; MIKRO 200R, ROTOFIX 32A, ROTINA 380; ROTINA 380R, ROTINA 420; ROTINA 420R, HAEMATOKRIT 200; HETTCUBE ff.

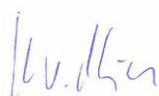
We started already our transition phase in the beginning of 2019 and are currently under implementation of the new requirements.

Our current EN ISO 13485:2016 Certificate, MDSAP Certificate and CE-Certificate MDD 93/42/EEC Annex II remains valid until the end of the transition phase for our in vitro diagnostic devices under IVDR 2017/746 until **26.05.2022** and for our medical devices under MDR 2017/745 until **26.05.2024**.

We will publish the successful transition of our product portfolio on our web page as soon as available.

Mit freundlichen Grüßen / Best regards,
Andreas Hettich GmbH & Co. KG

i.A.



Christian von der Grün
Head of Regulatory & Quality Affairs

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⁻¹
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

	ROTINA 380 non-refrigerated	ROTINA 380 R 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 ⁻¹	15,000 min ⁻¹
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
Cat. No.	1701	1706
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

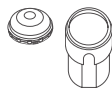
*) Other voltages on request.

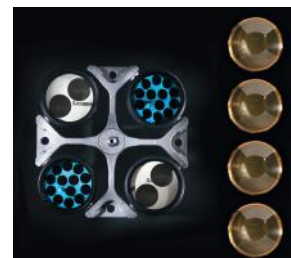
AVAILABLE ROTORS

SWING-OUT ROTORS		angle	max. RPM	max. capacity	Cat. No.	page
	swing-out rotor, 4-place	90°	5,000 min ⁻¹	4 x 290 ml	1754	3
	swing-out rotor, 4-place	90°	4,000 min ⁻¹	4 x 290 ml	1798	5
	swing-out rotor, 6-place	90°	4,000 min ⁻¹	6 x 50 ml	1726	8
	swing-out rotor, 2-place	90°	4,000 min ⁻¹	10 plates	1760	9
	swing-out rotor, 2-place	90°	5,100 min ⁻¹	12 plates	1770	9
ANGLE ROTORS						
	angle rotor, 6-place	45°	10,000 l 11,000 min ⁻¹	6 x 94 ml	1720	10
	angle rotor, 6-place	45°	10,000 l 11,000 min ⁻¹	6 x 94 ml	1792	11
	angle rotor, 30-place	45°	15,000 min ⁻¹	30 x 2 ml	1789-A	12

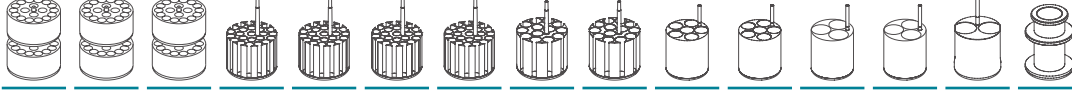
SWING-OUT ROTOR, 4-PLACE | 1754

	
Rotor	
max. RPM max. RCF	5,000 min ⁻¹ 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 ¹⁾	0
Cat. No.	1754

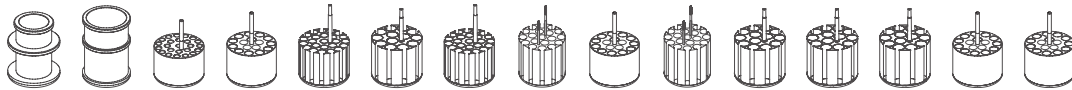
	
Bucket	
lid bioseal ²⁾	1751
Cat. No.	1752



	
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 ²⁾	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 4,668 4,807 4,640
radius in mm	top / bottom 125 / 171 125 / 171 171 167 167 167 167 167 167 167 167 167 167 172 166
Cat. No.	microliter tubes tubes²⁾

	
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 41x97
vessels per rotor	144 144 72 96 96 96 96 52 52 24 24 12 12 8 4
Cat. No.	1761 1761 1761 1762-A 1762-A 1762-A 1762-A 1763-A 1763-A 1764 1764 1765 1765 1777 1767

	
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 ²⁾	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
Cat. No.	tubes²⁾ blood collection tubes / urine tubes

	
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
Cat. No.	1766 1768 1781 1783-A 1762-A 1763-A 1762-A 1787 1783-A 1787 1763-A 1763-A 1763-A 1783-A 1783-A

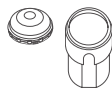
1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

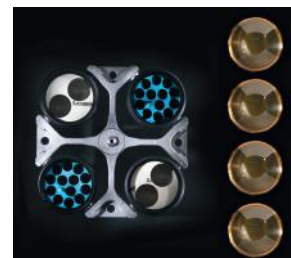
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

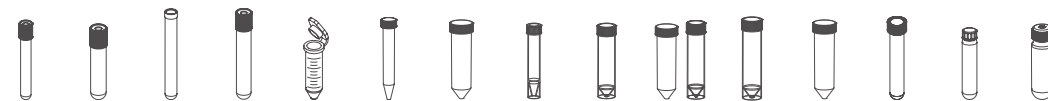
5) Tested by TÜV in conformity with DIN EN 61010, section 2 - 020.

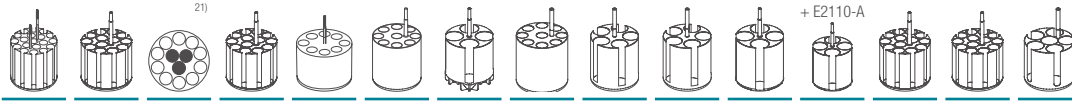
SWING-OUT ROTOR, 4-PLACE | 1754

	
Rotor	
max. RPM max. RCF	5,000 min ⁻¹ 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 ¹⁾	0
Cat. No.	1754

	
Bucket	
lid bioseal ⁵⁾	1751
Cat. No.	1752



	
Vessels	
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 ²⁾	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
Cat. No.	blood collection tubes / urine tubes - tubes with screw cap

	
Adapter	
boring Ø x L in mm	13.2x72 17.5x62 17.5x62 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
Cat. No.	1787 1763-A 1763-A 1763-A 1738 1771-A 1772-A 1773 1779 1779 1774-A 1774-A 1763-A 1763-A 1775

	
Vessels	
capacity in ml	50 85 94 175 175 200 225 250 290
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 ²⁾	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
Cat. No.	tubes with screw cap Falcon Nalgene Nunc® Falcon 5127 ²⁴⁾ - ²⁴⁾

	
Adapter	
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
Cat. No.	1774-A 1777 1777 1782 1778 1778 1782 1769 1769

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.

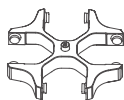
3.3) When using these tubes, bucket 1752 or 5051 cannot be closed with lid 1751 or 5053.

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

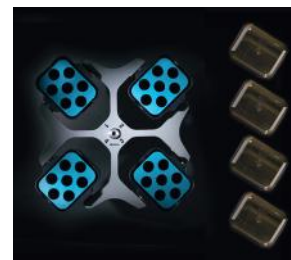
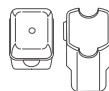


Rotor

max. RPM max. RCF	4,000 min ⁻¹ 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 ¹⁾	-8
Cat. No.	1798

Bucket

lid	5053
Cat. No.	5051



Vessels

capacity in ml	1.5	2	1.5	2	3	5	6	7	9	15	25	50	100	100
Ø x L in mm	11x38	11x38	11x38	11x38	10x60	12x75	12x82	12x100	14x100	17x100	24x100	34x100	40x115	44x100
max. RCF ²⁾	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
Cat. No.	microliter tubes				tubes³⁾									



Adapter

boring Ø x L in mm	12.5x42	12.5x42	11.5x50	11.5x50	11 x 44	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
Cat. No.	5257	5257	5281	5281	5267	5227	5227	5247¹⁵⁾	5264	5248¹⁵⁾	5242	5243	5249	5262

Vessels

capacity in ml	1.1–1.4	2.6–3.4	2.7–3	4–5.5	4.5–5	4.9	7.5–8.5	9–10	10	1.6–5	4–7	4–7	8.5–10
Ø x L in mm	8x66	13x65	11 x 66	15 x 75	11 x 92	13x90	15x92	16x92	15x102	13x75	13x100	16x75	16x100
max. RCF ²⁾	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
Cat. No.	blood collection tubes / urine tubes												



Adapter

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
Cat. No.	5267	5268	5227	5264	5227	5268	5264	5258	5258	5268	5268	5264	5248

Vessels

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 ²⁾	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
Cat. No.	tubes with screw cap						cyto chambers



Adapter

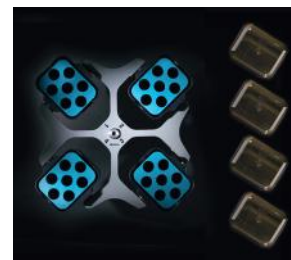
boring Ø x L in mm	26x86	30x86	17x90	17x90	26 x 86	36x86	-
vessels per rotor	20	8	28	28	20	8	8
Cat. No.	5266	5259	6306	6306	5266	5243	5280

- 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

Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 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 ¹⁾	-8
Cat. No.	1798

Bucket	
lid bioseal ⁵⁾	5093
Cat. No.	5092



Vessels	
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 25x110 29x115 17x100 25x90 25x110
max. RCF ²⁾	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
Cat. No.	tubes²⁾ tubes with screw cap

Adapter	
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
Cat. No.	5128 5128 5120 5136 5122 5124 5125 5126 1791 5129 5122 5123 5121 5134 5122

Vessels	
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 16x80 61x122 62x137 8x66 13x65 11x66 15x75 11x92 13x90 15x92 16x92 15x102 13x75 16x75
max. RCF ²⁾	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
Cat. No.	tubes with screw cap 5127²⁴⁾ – 24) blood collection tubes / urine tubes

Adapter	
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
Cat. No.	5135 5136 6319 6319 5138 5138 5138 5136 5120 5137 5136 5136 5136 5138 5136

Vessels	
capacity in ml	4–7 8 8.5–10
Ø x L in mm	13x100 16x125 16x100
max. RCF ²⁾	3,005 3,059 2,952
radius in mm	168 171 165
Cat. No.	blood collection / urine tubes
Adapter	
boring Ø x L in mm	13.2x82 17.5x82 17.5x60.7
vessels per rotor	48 28 32
Cat. No.	5120 5121⁴⁾ 5136

- 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



Rotor

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



Vessels

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 ²⁾	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
Cat. No.	tubes²⁾											-	cyto chambers



Carrier

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
Cat. No.	1369-91	1372	1369-92	1369-92	1370	1369	1346	1745	1345	1746	1369	1745	1660

CYTO

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

SWING-OUT ROTOR, 6-PLACE | 1726



Rotor

max. RPM max. RCF	4,000 min ⁻¹ 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 ¹⁾	-6
Cat. No.	1726



Carrier

Cat. No.	1742
-----------------	-------------



Vessels

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 ²⁾	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
Cat. No.	-²⁾	blood collection tubes / urine tubes								-



Spacer

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
Cat. No.	-	0716	0716	-	-	-	0716	0716	-	-

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

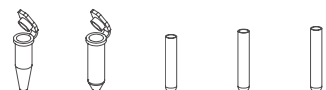
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.

21) Adapter must be loaded as illustrated.

SWING-OUT ROTOR, 6-PLACE | 1726

			
Rotor		Bucket	
max. RPM max. RCF	4,000 min ⁻¹ 2,325	Cat. No.	1366
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 ¹⁾	-6		
Cat. No.	1726		

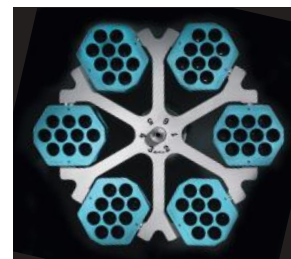


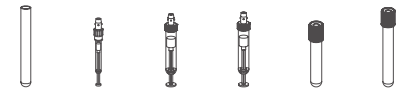
	
Vessels	
capacity in ml	1.5 2.0 1 3 4
Ø x L in mm	11 x 38 11 x 38 6 x 45 10 x 60 12 x 60
max. RCF ²⁾	2,325 2,325 2,308 2,290 2,290
radius in mm	130 130 129 128 128
Cat. No.	microliter tubes Rhesus tubes ²⁾

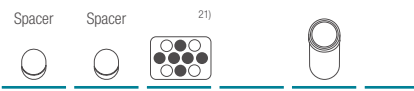
	
Adapter	
boring Ø x L in mm	11.5 x 38 11.5 x 38 6.5 x 23 10.5 x 23 12.5 x 44
vessels per rotor	54 54 180 72 72
Cat. No.	5277 5277 1357 1327 1326

SWING-OUT ROTOR, 6-PLACE | 1726

			
Rotor		Carrier	
max. RPM max. RCF	4,000 min ⁻¹ 2,808	Cat. No.	1741
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 ¹⁾	-6		
Cat. No.	1726		



	
Vessels	
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 ²⁾	2,773 2,773 2,808 2,808 2,486 2,808
radius in mm	155 155 157 157 139 157
Cat. No.	- ²⁾ blood collection tubes / urine tubes

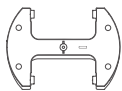
	
Adapter	
boring Ø x L in mm	14.6 x 78 14.6 x 78 14.6 x 78 14.6 x 78 14.6 x 78 14.6 x 78
vessels per rotor	60 60 36 60 60 60
Cat. No.	0701 0701 - - 6x0768 ¹⁶⁾ -

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- Packaging unit 10 pieces.
- Adapter must be loaded as illustrated.

SWING-OUT ROTOR, 2-PLACE | 1760

Rotor

max. RPM max. RCF	4,000 min ⁻¹ 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 ¹⁾	-8
Cat. No.	1760



Plates

W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	84x59x11	124x82x20	-
capacity in ml	-	-	-	-	-	-	-	-	0.2
max. RCF ²⁾	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
Cat. No.	MTP	MTP	CP	DWP	MS	QP	Microtest plates	PCR plate	PCR strips



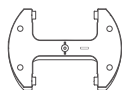
Bucket

boring Ø x L in mm	-	-	-	-	-	-	-	-	-
plates / strips per rotor	10	8	6	2	2	2	4	2	24 x 8
Cat. No.	1753-A	1753-A	1753-A	1753-A	1753-A	1753-A	1753-A	1753-A+1485	1753-A+1485

SWING-OUT ROTOR, 2-PLACE | 1770

Rotor

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



Bucket

lid bioseal ²⁾	4627
Cat. No.	4745



Plates

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 ²⁾	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
Cat. No.	MTP	MTP	CP	DWP	MS	QP	Microtest plates	PCR plate	PCR strips



Removal frame

boring Ø x L in mm	-	-	-	-	-	-	-	-	-
plates / strips per rotor	12	10	8	2	2	2	4	2	24 x 8
Cat. No.	4626	4626	4626	4626	4626	4626	4626	4626 + 1485	4626 + 1485

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

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

ANGLE ROTOR, 6-PLACE | 1720



Rotor

max. RPM	ROTINA 380 380 R	10,000 min ⁻¹ 11,000 min ⁻¹
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 ¹⁾		+1
Cat. No.		1720



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 ²⁾	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 ²⁾	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
Cat. No.		microliter tubes		tubes ²⁾				blood collection tubes /			-	tubes with screw cap				



Adapter

boring Ø x L in mm	11.4 x 39	11.4 x 39	17.5 x 92	26 x 85	35 x 89	38.4 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
Cat. No.	1449	1449	1451	1447	1463	-	1451	1451	1451	1476	1466	1454	1448	1447	1446

Vessels

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



Adapter

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

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 ⁻¹ 11,000 min ⁻¹		Cat. No.	INCLUSIVE
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 ¹⁾		+4			
Cat. No.		1792			



																		
Vessels		1.5	2.0	15	25	50	94	7.5 – 8.5	9 – 10	10	8.5 – 10	5	15	50	10	30		
capacity in ml		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		
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 ²⁾	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 ²⁾	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		
Cat. No.		microliter tubes		tubes ²⁾				blood collection tubes / urine tubes				-		tubes with screw cap				
		+																
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		
Cat. No.		1449	1449	1451	1447	1463	-	1451	1451	1451	1451	1476	1466	1454	1448	1447		

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

		+	
Adapter			
boring Ø x L in mm		29 x 92	38.2x 89.6
vessels per rotor		6	6
Cat. No.		1446	-

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.

ANGLE ROTOR, 30-PLACE | 1789-A

			
Rotor		Lid bioseal⁵⁾, phenol-resistant	
max. RPM max. RCF	15,000 min ⁻¹ 24,400 min ⁻¹	Cat. No.	INCLUSIVE
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 ¹⁾	+4		
Cat. No.	1789-A		



							
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 ²⁾	24,400	24,400	24,400	24,400	24,400	24,400	23,394
radius in mm	97	97	97	97	97	97	93
Cat. No.	microliter tubes						Pediatric

							
Adapter							
boring Ø x L in mm	6x40	6x40	8x40	8x40	10.2x19.3	11.2x40.9	11.2x40.9
vessels per rotor	30	30	30	30	30	30	15
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	0788¹⁷⁾

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:

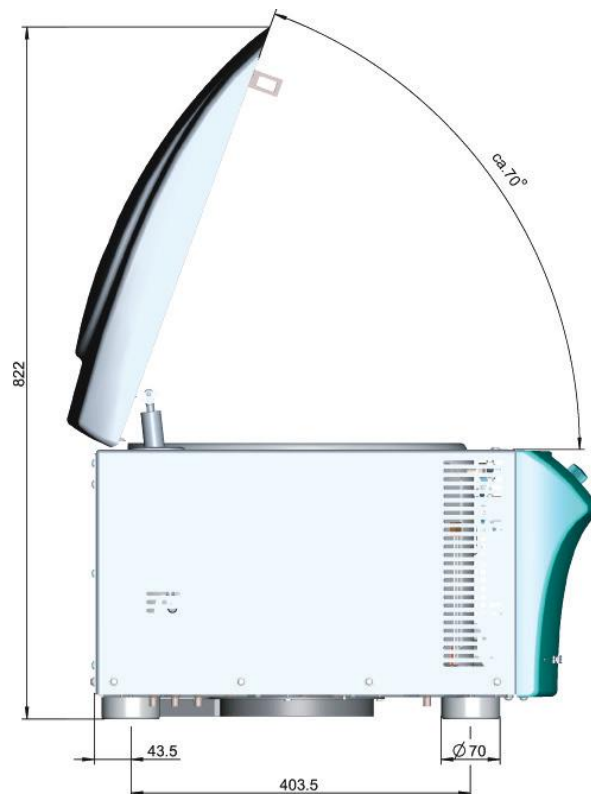
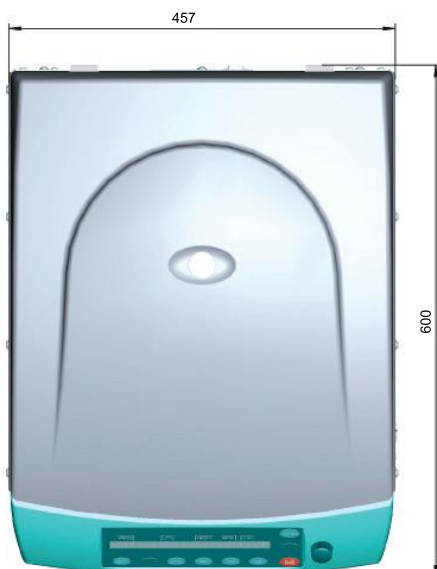


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DIMENSIONS



DIMENSIONS

