

Anexa tehnica, Lot 11, Centrifuga, de laborator (32 tuburi)**Model Rotofix 32A cu rotor 1418 si 8 adaptoare 1467**

Parametri solicitati	Parametri oferiti
Centrifugă de laborator (32 tuburi) Cod 150930 Descriere Centrifugele de laborator sunt destinate pentru a centrifuga sângele. Parametrul Specificația Viteza de rotație Minimală, rpm reglabilă Maximală, rpm ≥ 3500 Setări setarea vitezei Capacitatea Tipul tuburilor tuburi de 10 - 15 ml Numărul de tuburi 32 unitati Timer Gama de timp 0 - ≥ 60 min Incrementarea ≤ 1 min Securitatea Blocarea capacului în timpul lucrului da Indicatori Indicarori vizual și acustic da Debalansare da Pornire/oprire da Capac deschis da Display Digital da Nivelul de zgomot ≤ 65 dB da Fereastra, orificiu sau alt acces, necesar pentru efectuarea procedurii de verificare periodica, conform normelor si standartelor in vigoare da	Centrifugă de laborator (32 tuburi) Cod 150930 Descriere Centrifugele de laborator sunt destinate pentru a centrifuga sângele. Parametrul Specificația Viteza de rotație Minimală, rpm reglabilă Maximală, rpm 4000 Setări setarea vitezei Capacitatea Tipul tuburilor tuburi de 10 - 15 ml Numărul de tuburi 32 unitati Timer Gama de timp 0 - 99 min Increment 1 min Securitatea Blocarea capacului în timpul lucrului da Indicatori Indicarori vizual și acustic da Debalansare da Pornire/oprire da Capac deschis da Display Digital da Nivelul de zgomot 52 dB da Fereastra, orificiu sau alt acces, necesar pentru efectuarea procedurii de verificare periodica, conform normelor si standartelor in vigoare da

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, centrifuges for separation of blood components for
transfusion purposes and microbiological incubators.**

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:2016 - ISO 13485:2016

Valid from	2020-04-01
Valid until	2023-03-31
Registration no.	D1459300001
Report no.	P19-01336-156285
Stuttgart	2020-03-26

A blue ink signature, likely of the Head of Certification Body, written in a cursive style.

Head of Certification Body



CUSTOMER INFORMATION

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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.

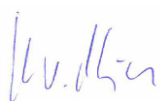
We started already our transition phase in the beginning of 2019 and are currently under implementation of the new requirements.

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

— ROTOFIX 32 A

RUGGED AND INDISPENSABLE

For decades, the ROTOFIX 32 A has set the standard in daily lab routine thanks to its versatility and solid construction. The benchtop centrifuge spins sample volumes up to 6 x 94 ml, 40 blood collection tubes or 8 x 50 ml conical tubes with a simple user interface. Hettich's cytology rotors are compatible with most existing funnel/slide systems and have bio-containment lids.



— HIGHLIGHTS

- RPM: 500 - 6,000 min⁻¹
Adjustable in increments of 100
- max. RCF: 4,226
- max. capacity: 4 x 100 ml / 6 x 94 ml
- choice of 9 rotors
- easy operation with keypad
- 2 individual deceleration stages

— FEATURES

- metal housing and lid
- viewing port in the lid
- one-hand lid lock
- lid dropping protection
- emergency lid lock release
- stainless steel chamber
- automatic rotor recognition
- brushless drive
- error display
- imbalance monitoring and switch-off
- control panel with actual values of all parameters
- auditory message after completion of the centrifugation run

TECHNICAL DATA

ROTOFIX 32 A	
voltage *)	208 – 240 V 1 ~
frequency	50 – 60 Hz
consumption	300 VA
emission, immunity	EN/IEC 61326-1, class B
max. capacity	4 x 100 ml / 6 x 94 ml
max. RPM	6,000 min ⁻¹
max. RCF	4,226
running time	1–99 min, ∞ continuous run, short cycle mode (impulse button)
dimesions (WxDxH)	366x430x257 mm
weight	approx. 23 kg
noise level	52 dB (A) with rotor 1628
Cat. No.	1206
100 – 127 V 1 ~ / 50 – 60 Hz *)	1206-01
emission, immunity	FCC class B

*) Other voltages on request.

AVAILABLE ROTORS

SWING-OUT ROTORS

SWING-OUT ROTORS		angle	max. RPM	max. capacity	Cat. No.	page
	swing-out rotor, 4-place	90°	4,000 min ⁻¹	4 x 100 ml	1624	3
	swing-out rotor, 4-place	90°	4,000 min ⁻¹	4 x 100 ml	1324	6
	swing-out rotor, 6-place	90°	4,000 min ⁻¹	6 x 50 ml	1619	8
	swing-out rotor, 8-place	45°	4,000 min ⁻¹	8 x 50 ml	1617	8
	swing-out rotor, 8-place	90°	4,000 min ⁻¹	8 x 15 ml	1611	9
	swing-out rotor, 12-place	55° / 60° / 80°	4,000 min ⁻¹	12 x 15 ml	1628	9

ANGLE ROTORS

	angle rotor, 8-place	45°	4,000 min ⁻¹	8x50 ml	1418	10
	angle rotor, 6-place	35°	6,000 min ⁻¹	6x94 ml	1620A	11
	angle rotor, 12-place	35°	6,000 min ⁻¹	12x15 ml	1613	12

SWING-OUT ROTOR, 4-PLACE | 1624



Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,451
max. capacity	4 x 50 ml
run-up run-down, braked in sec	22 25
angle max. noise level	90° 55 dB (A)
Cat. No.	1624



Vessels

capacity in ml	5	5	6	7	9	9	15	15	20	25	45	50
Ø x L in mm	12x75	12x75	12 x 82	12 x 100	14 x 100	14 x 100	17 x 100	17 x 100	21 x 100	24 x 100	31 x 100	34 x 100
max. RCF ²⁾	2,057	2,164	2,308	2,308	2,308	2,415	2,308	2,451	2,361	2,451	2,361	2,451
radius in mm	115	121	129	129	129	135	129	137	132	137	132	137

Cat. No.

tubes²⁾


Carrier

boring Ø x L in mm	12.5x64.4	13.5x65	12.5x71.5	12.5x71.5	14.6x74	14.6x78	17.6x71.5	17.6x78	21.5x74	26x78	32x74	35x78
vessels per rotor	16	68	16	16	20	40	16	28	8	8	4	4
Cat. No.	1369-91	1372	1369-92	1369-92	1370	1741	1369	1742	1346	1745	1345	1746

Vessels

capacity in ml	1.1–1.4	2.6–3.4	4–5.5	4.9	1.6–5	4–7	1.6–5	4–7	4–7	4–7	4–7	8.5–10	30	1–8
Ø x L in mm	8 x 66	13 x 65	15x75	13x90	13x75	16x75	13x75	16x75	13x100	13x100	13x100	16x100	26x95	simple / multiple
max. RCF ²⁾	2,415	2,325	2,325	2,451	2,129	2,361	2,325	2,325	2,361	2,361	2,451	2,451	2,451	1,646
radius in mm	135	130	130	137	119	132	130	130	132	132	137	137	137	92

Cat. No.

blood collection / urine vessels

- cyto chambers



Carrier

boring Ø x L in mm	14.6x78	17.6x78	17.6x78	14.6x78	14.6x78	17.6x71.5	17.6x78	17.6x78	17.6x71.5	14.6x74	13.5x78	17.6x71.5	26x78	-
vessels per rotor	40	28	28	40	40	16	28	28	16	20	28	16	8	4
Cat. No.	1741	1742	1742	1741	1741	1369⁴⁾	1742	1742	1369⁴⁾	1370⁴⁾	1739	1369⁴⁾	1745	1660

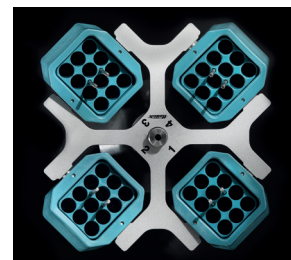
CYTO

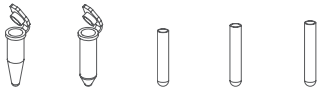
Cyto system available for this model.
More information on [page 178](#)

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) Please remove the spacer.
16) Packed in units of 10 pieces.
20) Vacutainers made of glass may not be used.

SWING-OUT ROTOR, 4-PLACE | 1624

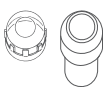
			
Rotor		Bucket	
max. RPM max. RCF	4,000 min ⁻¹ 1,968	Cat. No.	1366
max. capacity	48 x 4 ml		
run-up run-down, braked in sec	22 25		
angle max. noise level	90° 56 dB (A)		
Cat. No.	1624		



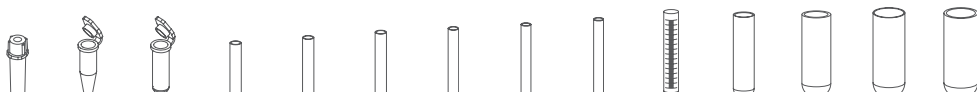
	
Vessels	
capacity in ml	1.5 2.0 1 3 4
Ø x L in mm	11 x 38 11 x 38 6 x 45 10 x 60 12 x 60
max. RCF ²⁾	1,968 1,968 1,950 1,932 1,932
radius in mm	110 110 109 108 108
Cat. No.	microliter tubes Rhesus tubes²⁾

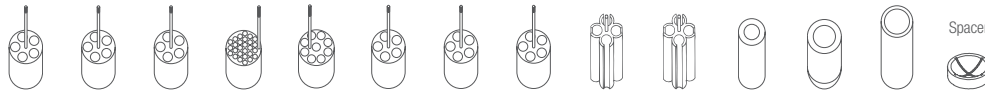
	
Adapter	
boring Ø x L in mm	11.5 x 38 11.5 x 38 6.5 x 23 10.5 x 23 12.5 x 44
vessels per rotor	36 36 120 48 48
Cat. No.	5277 5277 1357 1327 1326

SWING-OUT ROTOR, 4-PLACE | 1624

			
Rotor		Bucket	
max. RPM max. RCF	4,000 min ⁻¹ 2,665	Lid bioseal ⁵⁾	1492
max. capacity	4 x 100 ml	Cat. No.	1481
run-up run-down, braked in sec	22 25		
angle max. noise level	90° 55 dB (A)		
Cat. No.	1624		



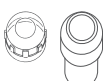
	
Vessels	
capacity in ml	0,5 1,5 2,0 1 3 5 6 7 9 15 25 50 94 100
Ø x L in mm	10.7 x 36 11 x 38 11 x 38 6 x 45 10 x 60 12 x 75 12 x 82 12 x 100 14 x 100 17 x 100 24 x 100 34 x 100 38 x 102 44 x 100
max. RCF ²⁾	2,379 2,451 2,451 2,594 2,630 2,558 2,558 2,558 2,540 2,540 2,433 2,415 2,612 2,558
radius in mm	133 137 137 145 147 143 143 143 142 142 136 135 146 143
Cat. No.	Pediatric microtubes Rhesus tubes²⁾

	
Adapter	
boring Ø x L in mm	11.2 x 38 11.2 x 38 11.2 x 38 6.5 x 34 10.5 x 43 13.4 x 48 13.4 x 48 13.4 x 48 17.6 x 91 17.6 x 91 25.2 x 87 35.2 x 87 38.5 x 92 45.9 x 98
vessels per rotor	20 20 20 108 36 20 20 20 16 16 4 4 4 4
Cat. No.	1351 1351 1351 1339 1343 1383 1383 1383 1329 1329 1330 1331 1396 0761

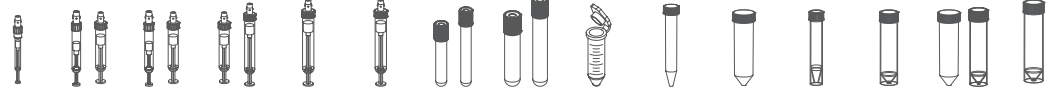
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.
5) Tested by TÜV in conformity with DIN EN 61010, section 2 - 020.

SWING-OUT ROTOR, 4-PLACE | 1624

	
Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 2,665
max. capacity	4 x 100 ml
run-up run-down, braked in sec	22 25
angle max. noise level	90° 55 dB (A)
Cat. No.	1624

	
Bucket	
Lid bioseal ⁵⁾	1492
Cat. No.	1481



	
Vessels	
capacity in ml	1.1–1.4 2.7–5 2.6–4.9 4–8.5 9–10 10 1.6–7 4–10 5 15 50 12 25 30 50
Ø x L in mm	8 x 66 11x66/92 13x65/90 15x75/92 16x92 15x102 13x75/100 16x75/100 17x59 17x120 29x115 17 x 100 25 x 90 25 x 110 29 x 115
max. RCF ²⁾	2,576 2,558 2,558 2,576 2,540 2,665 2,558 2,522 2,665 2,665 2,665 2,665 2,343 2,665 2,665
radius in mm	144 143 143 144 142 149 143 141 149 149 149 149 131 149 149
Cat. No.	blood collection / urine vessels - tubes with screw cap

	
Adapter	
boring Ø x L in mm	9x49 13.4x48 13.4x48 15.6x47 17.6x91 17.6x91 13.4x48 16.5x56 17x45 17x90 30x90 17x80 26x72 26x80 29.5x80
vessels per rotor	28 20 20 16 16 16 20 16 12 4 4 4 4 4 4
Cat. No.	1457 1383 1383 1459 1329 1329⁴⁾ 1383 1348 6341 1347 1384 6311 1363 1365 6318

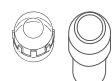
	
Vessels	
capacity in ml	10 30 50 85 30
Ø x L in mm	16 x 80 26 x 95 29x107 38x106 44x105
max. RCF ²⁾	2,522 2,451 2,630 2,612 2,540
radius in mm	141 137 147 146 142
Cat. No.	tubes with screw cap 0534⁶⁾

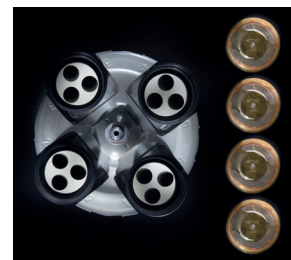
	
Adapter	
boring Ø x L in mm	16.5x56 26x83 29x93 38.5x92 45.9x98
vessels per rotor	16 4 4 4 4
Cat. No.	1348 4417 4416 1396 0765

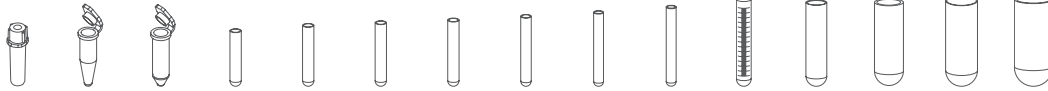
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- When using these tubes, bucket 1490 cannot be closed with lid 1492.
- Please remove spacer.
- Tested by TÜV in conformity with DIN EN 61010, section 2 - 020.
- A rubber stopper for closing the tube for agitating or mixing is available under Cat. No. 0535. The tube may not be centrifuged with the stopper.

SWING-OUT ROTOR, 4-PLACE | 1324

	
Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 2,630
max. capacity	4 x 100 ml
run-up run-down, braked in sec	27 30
angle max. noise level	90° 55 dB (A)
Cat. No.	1324

	
Bucket	
Lid bioseal ⁵⁾	1492
Cat. No.	1490



	
Vessels	
capacity in ml	0.5 1.5 2.0 1 3 4 5 6 7 9 15 25 50 94 100
Ø x L in mm	10.7x36 11x38 11x38 6x45 10x60 10x88 12x75 12x82 12x100 14x100 17x100 24x100 34x100 38x102 44x100
max. RCF ²⁾	2,343 2,415 2,415 2,558 2,594 2,594 2,522 2,522 2,522 2,504 2,504 2,397 2,379 2,576 2,522
radius in mm	131 135 135 143 145 145 141 141 141 140 140 134 133 144 141
Cat. No.	Pediatric microliter tubes Rhesus tubes²⁾

	
Adapter	
boring Ø x L in mm	11.2x38 11.2x38 11.2x38 6.5x34 10.5x43 10.5x43 13.4x48 13.4x48 13.4x48 17.6x91 17.6x91 25.2x87 35.2x87 38.5x92 45.9x100.5
vessels per rotor	20 20 20 108 36 36 20 20 20 16 16 4 4 4 4
Cat. No.	1351 1351 1351 1339 1343 1343 1383 1383 1383 1329 1329 1330 1331 1396 0761

	
Vessels	
capacity in ml	1.1–1.4 2.6–3.4 4.9 2.7–3 4.5–5 4–5.5 7.5–8.5 9–10 10 1.6–5 4–7 4–7 8.5–10 5 15
Ø x L in mm	8 x 66 13x65 13x90 11x66 11x92 15x75 15x92 16x92 15x102 13x75 13x100 16x75 16x100 17x59 17x120
max. RCF ²⁾	2,540 2,522 2,522 2,522 2,522 2,540 2,540 2,504 2,630 2,522 2,522 2,486 2,486 2,630 2,630
radius in mm	142 141 141 141 141 142 142 140 147 141 141 139 139 147 147
Cat. No.	blood collection / urine vessels - -

	
Adapter	
boring Ø x L in mm	9x47 13.4x48 13.4x48 13.4x48 13.4x48 15.6x47 15.6x47 17.6x91 17.6x91 13.4x48 13.4x48 16.5x56 16.5x56 17x45 17x90
vessels per rotor	28 20 20 20 20 16 16 16 16 20 20 16 16 12 4
Cat. No.	1457 1383 1383 1383 1383 1459 1459 1329 1329⁴⁾ 1383 1383 1348 1348 6341 1347

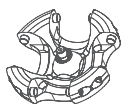
	
Vessels	
capacity in ml	15 ³⁾ 30 50 12 25 30 50 10 30 50 85 30
Ø x L in mm	17x120 25 x 110 29 x 115 17 x 100 25 x 90 25 x 110 29 x 115 16 x 80 26 x 95 29x107 38x106 44x105
max. RCF ²⁾	2,630 2,630 2,630 2,630 2,308 2,630 2,630 2,486 2,415 2,594 2,576 2,504
radius in mm	147 147 147 147 129 147 147 139 135 145 144 140
Cat. No.	tubes with screw cap 0534⁶⁾

	
Adapter	
boring Ø x L in mm	17x107 26x80 30x90 17x80 26x72 26x80 29.5x80 16.5x56 26x83 29x93 38.5x92 45.9x100.5
vessels per rotor	12 4 4 4 4 4 4 16 4 4 4 4
Cat. No.	1356 1365 1384 6311 1363 1365 6318 1348 4417 4416 1396 0765

- 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.
- When using these tubes, bucket 1490 cannot be closed with lid 1492.
- Please remove spacer.
- Tested by TÜV in conformity with DIN EN 61010, section 2 - 020.
- A rubber stopper for closing the tube for agitating or mixing is available under Cat. No. 0535. The tube may not be centrifuged with the stopper.

SWING-OUT ROTOR, 4-PLACE | 1324

Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 2,612
max. capacity	4 x 50 ml
run-up run-down, braked in sec	27 30
angle	90° 56 dB (A)
Cat. No.	1324



Bucket	
Cat. No.	1398



Vessels	
capacity in ml	5 6 7 9 15 2.6-3.4 2.7-3 4-5.5 4.5-5 4.9 9-10 10 1.6-5 4-7 4-7
Ø x L in mm	12x75 12x82 12x100 14x100 17x100 13x65 11x66 15x75 11x92 13x90 16x92 15x102 13x75 13x100 16x75
max. RCF ²⁾	2,486 2,486 2,486 2,522 2,522 2,486 2,486 2,272 2,486 2,486 2,522 2,522 2,486 2,486 2,397
radius in mm	139 139 139 141 141 139 139 127 139 139 141 141 139 139 134
Cat. No.	tubes²⁾ blood collection / urine vessels

Adapter	
boring Ø x L in mm	13.4x57.5 13.4x57.5 13.4x57.5 17.5x81 17.5x81 13.4x57.5 13.4x57.5 17.5x81 13.4x57.5 13.4x57.5 17.5x81 17.5x81 13.4x57.5 13.4x57.5 17.5x81
vessels per rotor	20 20 20 16 16 20 20 16 20 20 16 16 20 20 16
Cat. No.	1486 1486 1486 1482A 1482A 1486 1486 1482A 1486 1486 1482A 1482A 1486 1486 1482A

Vessels	
capacity in ml	8.5-10 12 15 50 12 50
Ø x L in mm	16x100 17x102 17x120 29x115 17x100 29x115
max. RCF ²⁾	2,397 2,451 2,612 2,576 2,522 2,576
radius in mm	134 137 146 144 141 144
Cat. No.	blood collection / urine vessels tubes with screw cap

Adapter	
boring Ø x L in mm	17.5x81 17.5x74 17x100 30x98 17.5x81 30x98
vessels per rotor	16 12 16 4 16 4
Cat. No.	1482A 1487 1483A 1484 1482A 1484³⁾

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) Please remove spacer.

SWING-OUT ROTOR, 6-PLACE | 1619



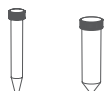
Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,701
max. capacity	6 x 50 ml
run-up run-down, braked in sec	22 25
angle max. noise level	90° 54 dB (A)
Cat. No.	1619



Vessels

capacity in ml	15	50
Ø x L in mm	17 x 120	29 x 115
max. RCF ²⁾	2,701	2,701
radius in mm	151	151
Cat. No.	tubes with screw cap	



Adapter

boring Ø x L in mm	17 x 84	30 x 87.5
vessels per rotor	6	6
Cat. No.	1462-A	-



SWING-OUT ROTOR, 8-PLACE | 1617



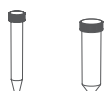
Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,469
max. capacity	8 x 50 ml
run-up run-down, braked in sec	22 25
angle max. noise level	45° 53 dB (A)
Cat. No.	1617



Vessels

capacity in ml	15	50
Ø x L in mm	17 x 120	29 x 115
max. RCF ²⁾	2,469	2,469
radius in mm	138	138
Cat. No.	tubes with screw cap	



Adapter

boring Ø x L in mm	17 x 84	30 x 94.5
vessels per rotor	8	8
Cat. No.	1462-A	-



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.

SWING-OUT ROTOR, 8-PLACE | 1611



Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,415
max. capacity	8 x 15 ml
run-up run-down, braked in sec	22 25
angle max. noise level	90° 53 dB (A)
Cat. No.	1611



Vessels

capacity in ml	5	6	7	10	15	2.6–3.4	2.7–3	4–5.5	4.5–5	7.5–8.5	1.6–5	4–7	4–7	8.5–10	
Ø x L in mm	12x75	12x82	12x100	13x100	17x100	13x65	11x66	15x75	11x92	15x92	13x75	13x100	16x75	16x100	
max. RCF ²⁾	1,914	1,914	2,415	2,415	2,415	1,914	1,914	1,914	2,415	2,415	1,914	2,415	1,914	2,415	
radius in mm	107	107	135	135	135	107	107	107	135	135	107	135	107	135	
Cat. No.	tubes ²⁾					blood collection / urine vessels									



Bucket

boring Ø x L in mm	13x53	13x53	13.2x81	13.2x81	17.5x81	13 x 53	13 x 53	17.5 x 53	13.2 x 81	17.5 x 81	13 x 53	13.2 x 81	17.5 x 53	17.5 x 81
vessels per rotor	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Cat. No.	1131-A	1131-A	1643	1643	1644	1131-A	1131-A	1132-A	1643	1644	1131-A	1643	1132-A	1644

SWING-OUT ROTOR, 12-PLACE | 1628



Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,683
max. capacity	12 x 15 ml
run-up run-down, braked in sec	22 25
angle max. noise level	55° / 60° / 80° 52 dB (A)
Cat. No.	1628



Vessels

capacity in ml	5	15	2.6–3.4	2.7–3	4–5.5	7.5–8.5	1.6–5	4–7	8.5–10
Ø x L in mm	12x75	17x100	13x65	11x66	15x75	15x92	13x75	16x75	16x100
max. RCF ²⁾	2,236	2,683	2,236	2,236	2,254	2,683	2,236	2,254	2,683
radius in mm	125	150	125	125	126	150	125	126	150
Cat. No.	tubes²⁾		blood collection / urine vessels						



Bucket

boring Ø x L in mm	13.2x53	17.5x79	13.2x53	13.2x53	17.5x53	17.5x79	13.2x53	17.5x53	17.5x79
vessels per rotor	12	12	12	12	12	12	12	12	12
Cat. No.	1127-A	1621	1127-A	1127-A	1122	1621	1127-A	1122	1621

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, 8-PLACE | 1418



Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,612
max. capacity	8 x 50 ml
run-up run-down, braked in sec	36 43
angle max. noise level	45° 53 dB (A)
Cat. No.	1418



Vessels

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	12	50	50
Ø x L in mm	12 x 75	17 x 100	8 x 66	13 x 65	11 x 66	16 x 92	13 x 75	13 x 100	16 x 100	17 x 102	17 x 120	29 x 115	17 x 100	29 x 115	29 x 107
max. RCF ²⁾	2,182	2,540	2,182	2,182	2,182	2,540	2,182	2,612	2,540	2,540	2,594	2,486	2,540	2,486	2,486
radius in mm	122	142	122	122	122	142	122	146	142	142	145	139	142	139	139

Cat. No.

tubes ²⁾	blood collection / urine vessels								tubes with screw cap						
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Carrier

boring Ø x L in mm	17.4 x 91	17.4 x 91	17.4 x 91	17.4 x 91	17.4 x 91	17.4 x 91	17.4 x 91	17.4 x 91	17.4 x 91	17.4 x 91	17.4 x 91	30.2 x 92	17.4 x 91	30.2 x 92	30.2 x 92
vessels per rotor	32	32	32	32	32	32	32	32	32	32	32	8	32	8	8
Cat. No.	1467	1467	1467	1467	1467	1467	1467	1467	1467	1467	1467	1468	1467	1468	1468

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 | 1620A



Rotor

max. RPM max. RCF	6,000 min ⁻¹ 4,226
max. capacity	6 x 94 ml
run-up run-down, braked in sec	19 22
angle max. noise level	35° 53 dB (A)
Cat. No.	1620A



Vessels

capacity in ml	0.5	1.5	2.0	3	15	50	94	7.5 – 8.5	9 – 10	10	8.5 – 10	5	15	50	50
Ø x L in mm	10.7 x 36	11 x 38	11 x 38	10 x 60	17 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	29 x 115
max. RCF ²⁾	4,105	4,105	4,105	4,105	3,904	4,146	4,226	3,904	3,904	3,904	3,904	3,824	3,985	3,985	3,985
radius in mm	102	102	102	102	97	103	105	97	97	97	97	95	99	99	99
Cat. No.	Pediatric	microliter tubes	tubes²⁾				blood collection / urine vessels				-	tubes with screw cap			



Adapter

boring Ø x L in mm	11.4 x 39	11.4 x 39	11.4 x 39	11.4 x 39	17.5 x 92	35 x 89	38.6 x 90.2	17.5 x 92	17.5 x 92	17.5 x 92	17.5 x 92	17 x 51	17 x 106	29.8 x 97	-
vessels per rotor	24	24	24	24	6	6	6	6	6	6	6	6	6	6	6
Cat. No.	1449	1449	1449	1449	1451	1463	-	1451	1451	1451	1451	1476	1466	1454	1646³⁾

Vessels

capacity in ml	10	30	50	85
Ø x L in mm	16 x 80	26 x 95	29 x 107	38 x 106
max. RCF ²⁾	3,904	3,824	4,025	4,226
radius in mm	97	95	100	105
Cat. No.	tubes with screw cap			



Adapter

boring Ø x L in mm	16.5 x 74	26 x 85	29 x 92	38.6 x 90.2
vessels per rotor	12	6	6	6
Cat. No.	1448	1447	1446	-

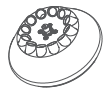
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.

The max. RCF for glass tubes annotated with footnote 2) is 4,000.

3) Adapter (Set), 6-place: for conical 50 ml tubes with screw cap.

ANGLE ROTOR, 12-PLACE | 1613

Rotor



max. RPM max. RCF	6,000 min ⁻¹ 4,146
max. capacity	12 x 15 ml
run-up run-down, braked in sec	13 15
angle max. noise level	35° 55 dB (A)
Cat. No.	1613



Vessels

capacity in ml	0.5	4	5	6	15	1.1–1.4	2.6–3.4	2.7–3	4.5–5	4.9	7.5–8.5	9–10
Ø x L in mm	10.7 x 36	10 x 88	12 x 75	12 x 82	17 x 100	8 x 66	13 x 65	11 x 66	11 x 92	13 x 90	15 x 92	16 x 92
max. RCF ²⁾	2,777	3,502	3,300	3,300	4,146	3,300	3,300	3,300	4,146	4,146	4,146	4,146
radius in mm	69	87	82	82	103	82	82	82	103	103	103	103
Cat. No.	Pediatric	tubes²⁾				blood collection / urine vessels						



Adapter

boring Ø x L in mm	11 x 35	11.5 x 67.5	13.5 x 60	13.5 x 60	17.7 x 88	13.5 x 60	13.5 x 60	13.5 x 60	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88
vessels per rotor	12	12	12	12	12	12	12	12	12	12	12	12
Cat. No.	2 x 1063-6 (6 pcs.)	6305	1054-A	1054-A	-	1054-A	1054-A	1054-A	-	-	-	-

Vessels

capacity in ml	1.6–5	4–7	8	8.5–10	5	15
Ø x L in mm	13 x 75	13 x 100	16 x 125	16 x 100	17 x 59	17 x 120
max. RCF ²⁾	3,300	4,146	4,146	4,146	3,180	4,146
radius in mm	82	103	103	103	79	103
Cat. No.	blood collection / urine vessels				-	-



Adapter

boring Ø x L in mm	13.5 x 60	13.5 x 79	17.7 x 88	17.7 x 88	17 x 25	17.7 x 88
vessels per rotor	12	12	6	12	12	6
Cat. No.	1054-A	1058	-	-	1064	-

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.

CERTIFICATIONS / REGISTRATIONS

Product certification:



Product registration:



Company certifications:



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