

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.

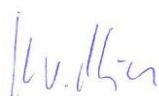
We started already our transition phase in the beginning of 2019 and are currently under implementation of the new requirements.

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

SMALL CENTRIFUGES

— EBA 200 | 200 S

TOP PERFORMANCE FOR SMALL LABORATORIES

The EBA 200 and EBA 200 S are practical, compact centrifuges for small sample sizes. The high speed S model can deliver reliable PPP results in 3 minutes or less. Included an 8-place fixed angle rotor to hold standard blood and urine tubes up to 15 ml in capacity.



— HIGHLIGHTS

- max. RPM: 200 - 6,000 min⁻¹ | 8,000 min⁻¹
Adjustable in increments of 10
- max. RCF: 3,461 | 6,153
- max. capacity: 8 x 15 ml
- small centrifuge including 8-place angle rotor
- compact design
- IVD-conform according to directive 98/79/EC
- maximum noise level of ≤ 50 dB(A) | ≤ 55 dB(A)
- impulse key for short cycle mode
- 2 individual acceleration and deceleration stages
- easy operation with keypad

— FEATURES

- plastic housing
- metal lid
- viewing port in the lid
- one-hand lid lock
- lid dropping protection
- emergency lid lock release
- light alloy chamber
- brushless drive
- error display
- imbalance monitoring and switch-off
- backlit panel with actual values of all parameters
- 3 adjustable messages after completion of the centrifugation run (audio + visual)

TECHNICAL DATA

	EBA 200	EBA 200 S
voltage ^{*)}	200 – 240 V 1 ~	200 – 240 V 1 ~
frequency	50 – 60 Hz	50 – 60 Hz
consumption	100 VA	160 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	8 x 15 ml	8 x 15 ml
max. RPM	6,000 min ⁻¹	8,000 min ⁻¹
max. RCF	3,461	6,153
running time	1 – 99 min, ∞ continuous run, short cycle mode (impulse button)	1 – 99 min, ∞ continuous run, short cycle mode (impulse button)
dimensions (WxDxH)	261 x 353 x 228 mm	261 x 353 x 228 mm
weight	approx. 9 kg	approx. 11 kg
max. noise level	≤ 50 dB (A)	≤ 55 dB (A)
Cat. No.	1800	1802
100 – 127 V 1 ~ / 50–60 Hz	1800-01	1802-01
emission, immunity	FCC class B	FCC class B

^{*)} Other voltages on request.

AVAILABLE ROTORS

ANGLE ROTORS	angle	max. RPM	max. capacity	Cat. No	page
 angle rotor, 8-place	33°	6,000 min ⁻¹ 8,000 min ⁻¹	8 x 15 ml	INCLUSIVE	3

ANGLE ROTOR, 8-PLACE



Rotor

max. RPM	EBA 200 200 S	6,000 min ⁻¹ 8,000 min ⁻¹
max. RCF		3,461 6,153
max. capacity		8 x 15 ml
run up / run down, braked in sec		17 / 12 37 / 17
angle		33°
Cat. No.	INCLUSIVE	



Vessels

capacity in ml		0.5	1.5	2	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	5
Ø x L in mm		10.7x36	11 x 38	11 x 38	10x88	12x75	12x82	17x100	8x66	13x65	11x66	11x92	13x90	15x92	16x92	17x59
max. RCF ²⁾	EBA 200	2,214	2,173	2,173	2,817	2,697	2,697	3,461	2,697	2,697	2,697	3,461	3,461	3,461	3,461	2,576
max. RCF ²⁾	EBA 200 S	3,935	3,864	3,864	5,009	4,794	4,794	6,153	4,794	4,794	4,794	6,153	6,153	6,153	6,153	4,579
radius in mm		55	54	54	70	67	67	86	67	67	67	86	86	86	86	64
Cat. No.		Pediatric	microliter tubes		tubes ²⁾			blood collection / urine tubes							-	



Adapter

boring Ø x L in mm	11 x 35	11 x 35	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	17 x 25
vessels per rotor	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Cat. No.	1063-8 (8 pcs.)			6305	1054-A	1054-A	-	1054-A	1054-A	1054-A	-	-	-	-	1064

Vessels

capacity in ml	15	10	1.6–5	4–7	8	8.5–10	12
Ø x L in mm	17 x 120	15 x 102	13 x 75	13 x 100	16 x 125	16 x 100	17 x 102
max. RCF ²⁾	EBA 200	3,461	3,461	2,697	3,461	3,461	3,461
max. RCF ²⁾	EBA 200 S	6,153	6,153	4,794	6,153	6,153	6,153
radius in mm	86	86	86	86	86	86	86
Cat. No.	-	blood collection / urine tubes					



Adapter

boring Ø x L in mm	17.7 x 88	17.7 x 88	13.5 x 60	13.5 x 79	17.7 x 88	17.7 x 88
vessels per rotor	4	8	8	8	4	8
Cat. No.	-	-	1054-A	1058	-	-

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.

12) For the EBA 200 only! Model EBA 200 S is supplied as standard with an adapter for these tubes.

CERTIFICATIONS / REGISTRATIONS

Product certification:



Product registration:



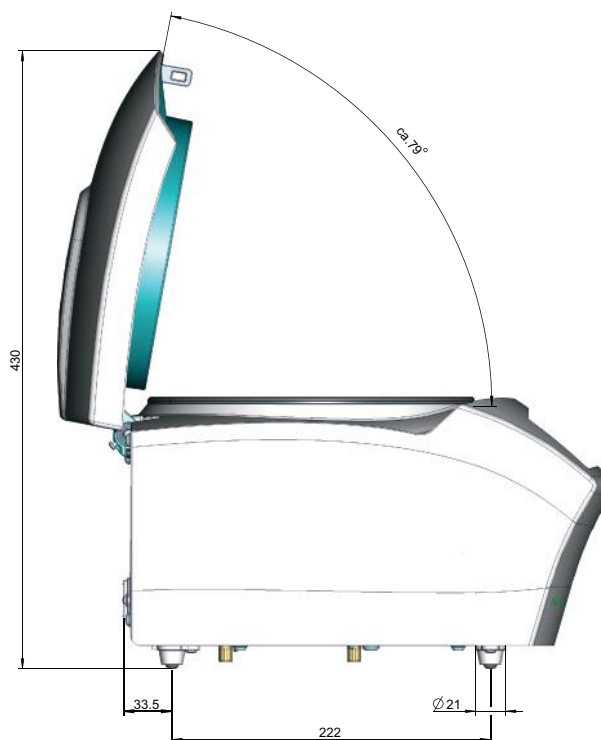
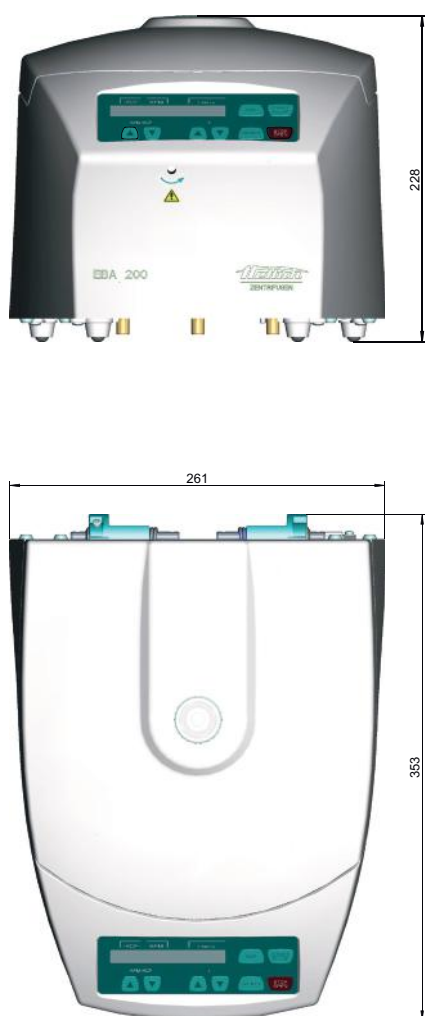
Company certifications:



DOWNLOADS

[↓ Operating Manual – EBA 200 | 200 S](#)
[↓ General Catalog](#)

DIMENSIONS – EBA 200 | 200 S



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

	angle	max. RPM	max. capacity	Cat. No.	page
	90°	4,000 min ⁻¹	4x100 ml	1624	3
	90°	4,000 min ⁻¹	4x100 ml	1324	6
	90°	4,000 min ⁻¹	6x50 ml	1619	8
	45°	4,000 min ⁻¹	8x50 ml	1617	8
	90°	4,000 min ⁻¹	8x15 ml	1611	9
	55° / 60° / 80°	4,000 min ⁻¹	12x15 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.

tubes³⁾


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

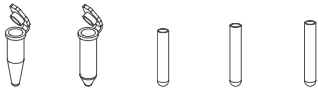
Cyto system available for this model.
More information on [page 178](#)

- 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

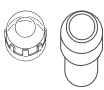
			
Rotor		Bucket	
max. RPM max. RCF	4,000 min ⁻¹ 1,968	Cat. No.	1366
max. capacity	48 x 4 ml		
run-up run-down, braked in sec	22 25		
angle max. noise level	90° 56 dB (A)		
Cat. No.	1624		

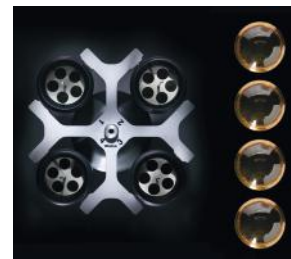


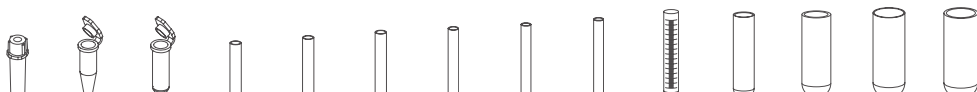
	
Vessels	
capacity in ml	1.5 2.0 1 3 4
Ø x L in mm	11 x 38 11 x 38 6 x 45 10 x 60 12 x 60
max. RCF ²⁾	1,968 1,968 1,950 1,932 1,932
radius in mm	110 110 109 108 108
Cat. No.	microliter tubes Rhesus tubes ²⁾

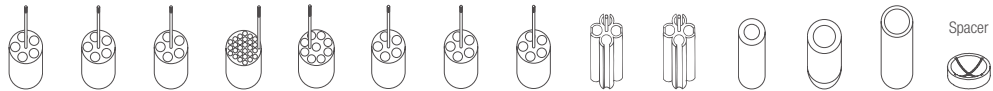
	
Adapter	
boring Ø x L in mm	11.5 x 38 11.5 x 38 6.5 x 23 10.5 x 23 12.5 x 44
vessels per rotor	36 36 120 48 48
Cat. No.	5277 5277 1357 1327 1326

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		



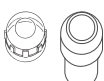
	
Vessels	
capacity in ml	0,5 1,5 2,0 1 3 5 6 7 9 15 25 50 94 100
Ø x L in mm	10.7 x 36 11 x 38 11 x 38 6 x 45 10 x 60 12 x 75 12 x 82 12 x 100 14 x 100 17 x 100 24 x 100 34 x 100 38 x 102 44 x 100
max. RCF ²⁾	2,379 2,451 2,451 2,594 2,630 2,558 2,558 2,558 2,540 2,540 2,433 2,415 2,612 2,558
radius in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

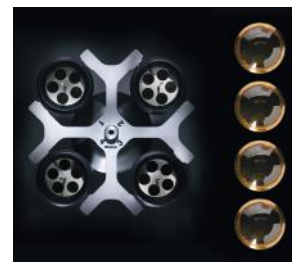
	
Adapter	
boring Ø x L in mm	11.2 x 38 11.2 x 38 11.2 x 38 6.5 x 34 10.5 x 43 13.4 x 48 13.4 x 48 13.4 x 48 17.6 x 91 17.6 x 91 25.2 x 87 35.2 x 87 38.5 x 92 45.9 x 98
vessels per rotor	20 20 20 108 36 20 20 20 16 16 4 4 4 4
Cat. No.	1351 1351 1351 1339 1343 1383 1383 1383 1329 1329 1330 1331 1396 0761

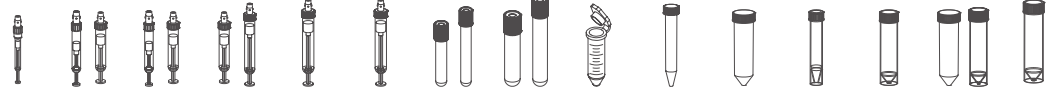
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.
5) Tested by TÜV in conformity with DIN EN 61010, section 2 - 020.

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



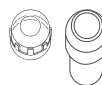
Rotor

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	tubes ²⁾											



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	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⁾



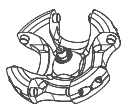
Adapter

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



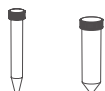
Rotor

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



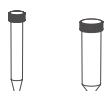
Rotor

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.	tubes²⁾					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	30.2 x 92	17.4 x 91	30.2 x 92	30.2 x 92	30.2 x 92
vessels per rotor	32	32	32	32	32	32	32	32	32	32	8	32	8	8	8
Cat. No.	1467	1467	1467	1467	1467	1467	1467	1467	1467	1467	1468	1467	1468	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.

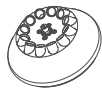
The max. RCF for glass tubes annotated with footnote 2) is 4,000.

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:

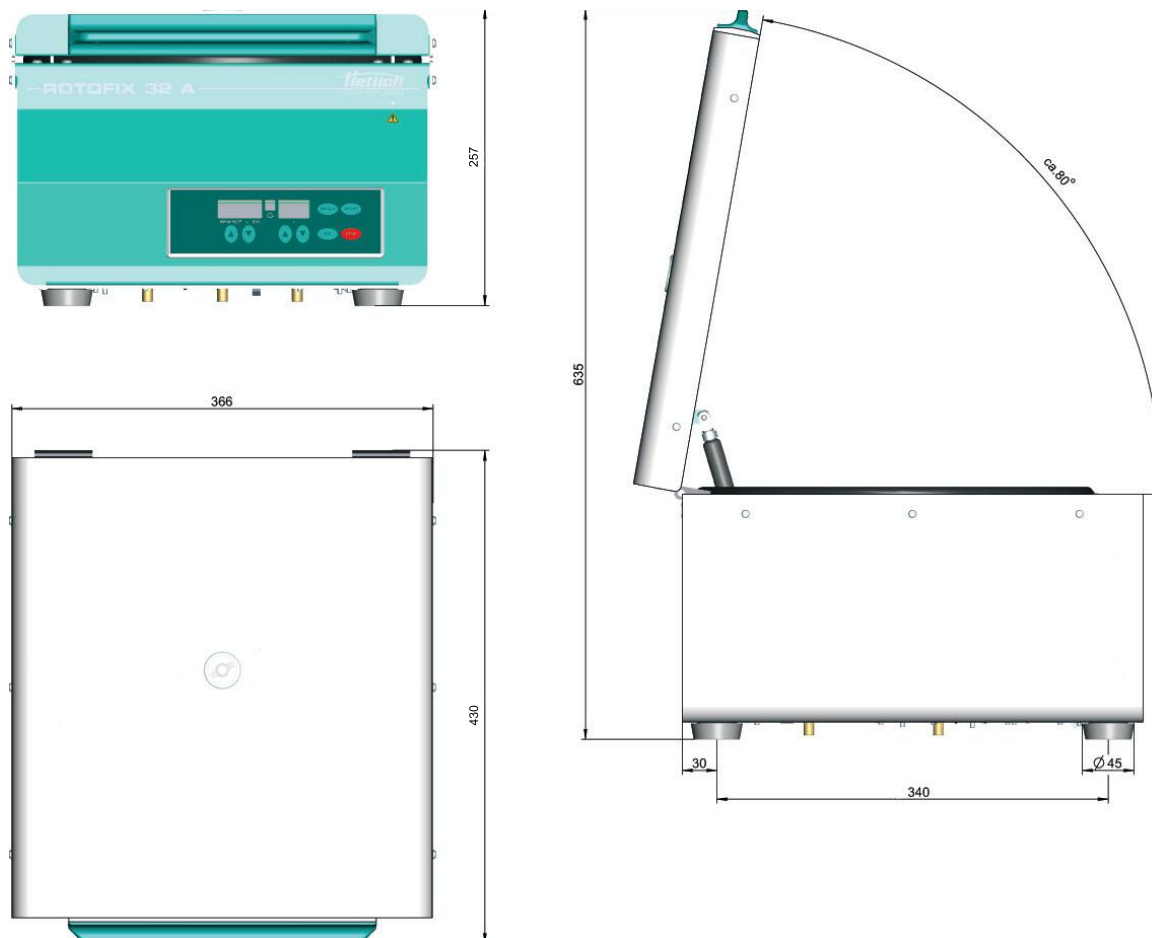


DOWNLOADS

[Operating manual – ROTOFIX 32 A](#)

[General Catalog](#)

DIMENSIONS



CUSTOMER INFORMATION

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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.

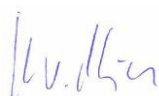
We started already our transition phase in the beginning of 2019 and are currently under implementation of the new requirements.

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

— 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.

tubes³⁾


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

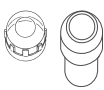
			
Rotor		Bucket	
max. RPM max. RCF	4,000 min ⁻¹ 1,968	Cat. No.	1366
max. capacity	48 x 4 ml		
run-up run-down, braked in sec	22 25		
angle max. noise level	90° 56 dB (A)		
Cat. No.	1624		

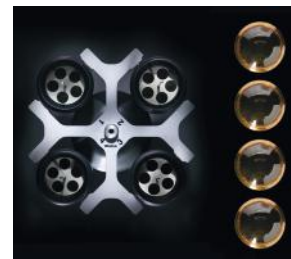


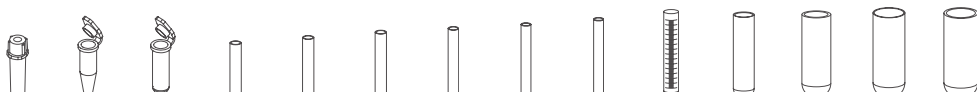
	
Vessels	
capacity in ml	1.5 2.0 1 3 4
Ø x L in mm	11 x 38 11 x 38 6 x 45 10 x 60 12 x 60
max. RCF ²⁾	1,968 1,968 1,950 1,932 1,932
radius in mm	110 110 109 108 108
Cat. No.	microliter tubes Rhesus tubes²⁾

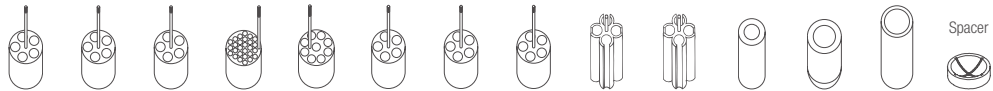
	
Adapter	
boring Ø x L in mm	11.5 x 38 11.5 x 38 6.5 x 23 10.5 x 23 12.5 x 44
vessels per rotor	36 36 120 48 48
Cat. No.	5277 5277 1357 1327 1326

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		



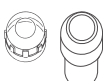
	
Vessels	
capacity in ml	0,5 1,5 2,0 1 3 5 6 7 9 15 25 50 94 100
Ø x L in mm	10.7 x 36 11 x 38 11 x 38 6 x 45 10 x 60 12 x 75 12 x 82 12 x 100 14 x 100 17 x 100 24 x 100 34 x 100 38 x 102 44 x 100
max. RCF ²⁾	2,379 2,451 2,451 2,594 2,630 2,558 2,558 2,558 2,540 2,540 2,433 2,415 2,612 2,558
radius in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

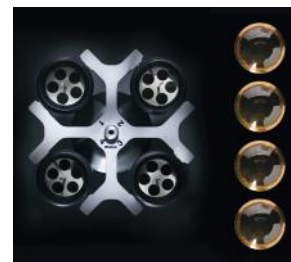
	
Adapter	
boring Ø x L in mm	11.2 x 38 11.2 x 38 11.2 x 38 6.5 x 34 10.5 x 43 13.4 x 48 13.4 x 48 13.4 x 48 17.6 x 91 17.6 x 91 25.2 x 87 35.2 x 87 38.5 x 92 45.9 x 98
vessels per rotor	20 20 20 108 36 20 20 20 16 16 4 4 4 4
Cat. No.	1351 1351 1351 1339 1343 1383 1383 1383 1329 1329 1330 1331 1396 0761

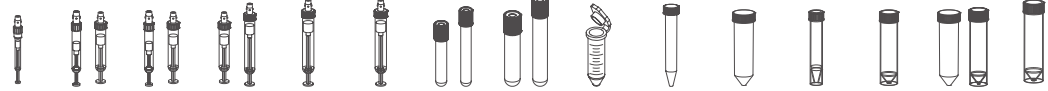
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.
5) Tested by TÜV in conformity with DIN EN 61010, section 2 - 020.

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



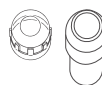
Rotor

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	tubes ²⁾											



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	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⁾



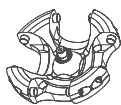
Adapter

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



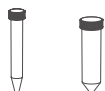
Rotor

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



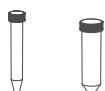
Rotor

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	



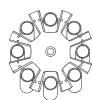
Adapter

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	30.2 x 92	17.4 x 91	30.2 x 92	30.2 x 92	30.2 x 92
vessels per rotor	32	32	32	32	32	32	32	32	32	32	8	32	8	8	8
Cat. No.	1467	1467	1467	1467	1467	1467	1467	1467	1467	1467	1468	1467	1468	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	10
Ø x L in mm	10.7x36	10x88	12x75	12x82	17x100	8 x 66	13x65	11x66	11x92	13x90	15x92	16x92	15x102
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	4,146
radius in mm	69	87	82	82	103	82	82	82	103	103	103	103	103
Cat. No.	Pediatric	tubes ²⁾				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	17.7 x 88
vessels per rotor	12	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:

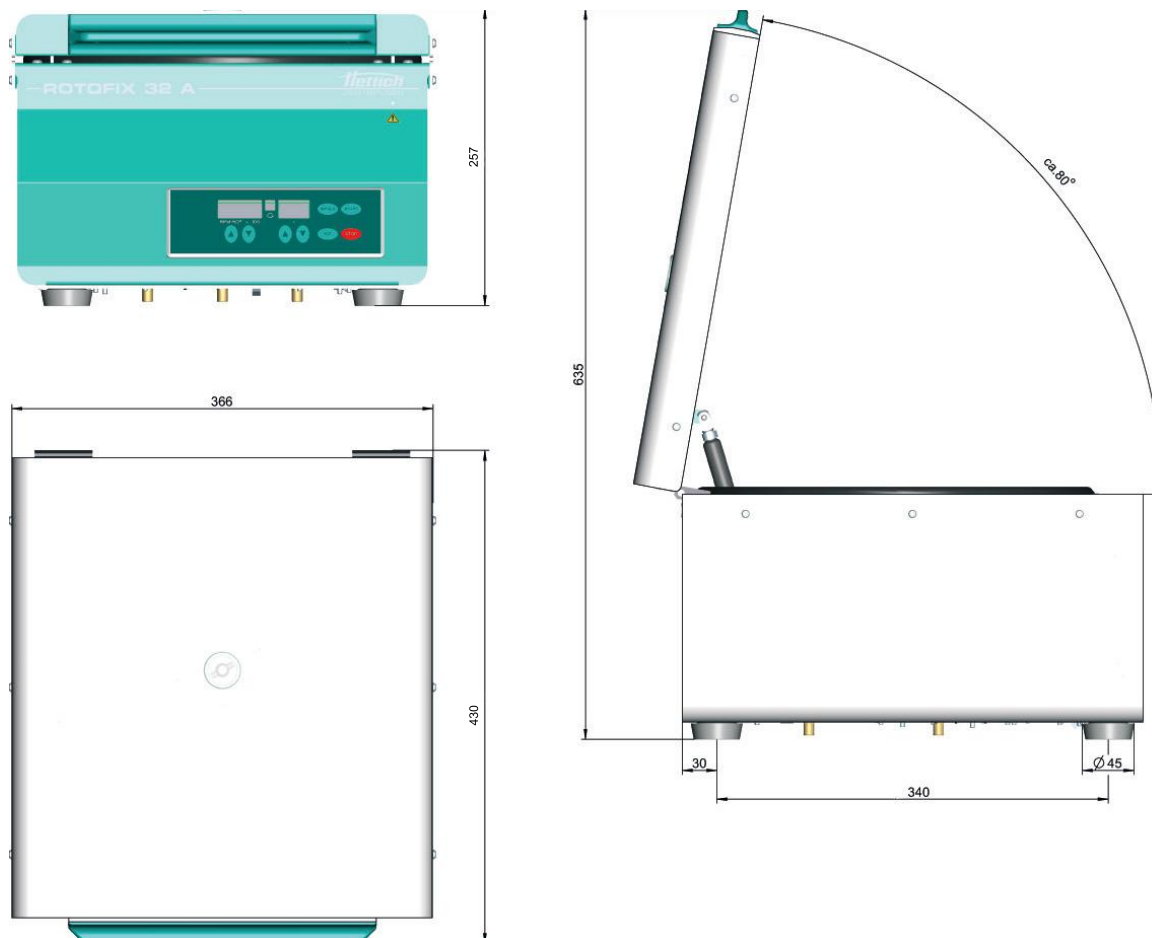


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DIMENSIONS





NF200

Bench Top Centrifuge



- Compact design for separation of blood samples, urine particle sedimentation and other routine applications in emergency and small laboratories
- N-Prime™ programmable microprocessor control system for accurate and reliable operations
- Easy programming with one button, just turn and push
- Two large LED displays for speed/RCF and time
- Possibility of programming RCF
- Pulse key for short centrifugation requirements
- Reduced temperature increase in the chamber by means of continuous air cooling through air channel in the lid
- Quiet brushless induction drive
- Safety ensured by steel body, lid and chamber, lid locking system and motor over temperature protection
- Delivered with 12x15 ml. angle rotor

N-prime

TECHNICAL SPECIFICATIONS

Maximum Speed	5.000 rpm
Maximum RCF	2.822xg
Tube Capacity	12x15 ml.
Control System	N-Prime™ Programmable Microprocessor Control
Speed Set Range	1.000-5.000 rpm
Speed Set Step	10 rpm
Timer Set Range	1-99 Minutes and Hold Position
Timer Set Step	1 minute
Motor	Induction Motor
Body, Lid and Chamber	Epoxy-Polyester Powder Coated Steel
Power Supply	230 V / 50-60 Hz (115 V / 60 Hz)
Power Consumption	150 W
External Dimensions (WxDxH) mm.	280x360x260
Packing Dimensions (WxDxH) mm.	350x420x480
Net / Packed Weight, kg.	12 / 16

ROTOR

Rotor Type	Capacity	Max. Tube Dia. (mm)	Radius (mm)	Max. Speed	Max. RCF
Angle	12x15 ml.	17	101	5.000 rpm	2.822xg

ADAPTORS

Code	Tube Type	Max. Tube Dia. (mm)
G 03 057	1.5/2 ml tubes	11
G 03 014	7 ml vacuumed/ non vacuumed tubes	13
G 03 015	5 ml vacuumed/ non vacuumed tubes	13



NÜVE SANAYİ MALZEMELERİ İMALAT VE TİCARET A.Ş.

Saracalar Mah. Saracalar Kümeevleri No: 4/2 Akyurt 06750 ANKARA / TURKEY t. +90 312 399 28 30 f. +90 312 399 21 97
nuve.com.tr sales@nuve.com.tr

ISO 9001: 2008
ISO 13485: 2003



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.

tubes³⁾

with
decanting aid

with
decanting aid

with
decanting aid


+ 0701



+ 0701



+ 0701



+ 0701



+ 0701



+ 0701



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 |


+ 0701



+ 0716



+ 0716


+ 0768¹⁶⁾


+ 0716



+ 0716



+ 1058



+ 1058



+ 1058



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

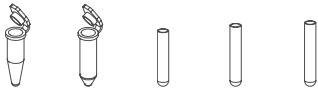
Cyto system available for this model.
More information on [page 178](#)

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

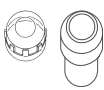
			
Rotor		Bucket	
max. RPM max. RCF	4,000 min ⁻¹ 1,968	Cat. No.	1366
max. capacity	48 x 4 ml		
run-up run-down, braked in sec	22 25		
angle max. noise level	90° 56 dB (A)		
Cat. No.	1624		

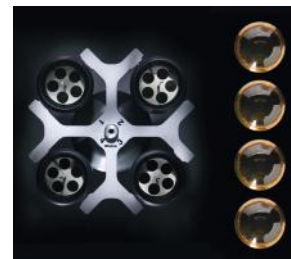


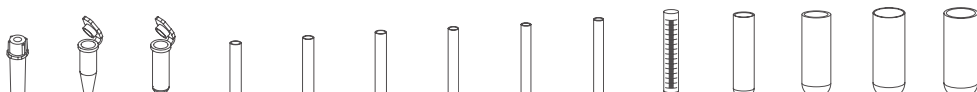
	
Vessels	
capacity in ml	1.5 2.0 1 3 4
Ø x L in mm	11 x 38 11 x 38 6 x 45 10 x 60 12 x 60
max. RCF ²⁾	1,968 1,968 1,950 1,932 1,932
radius in mm	110 110 109 108 108
Cat. No.	microliter tubes Rhesus tubes ²⁾

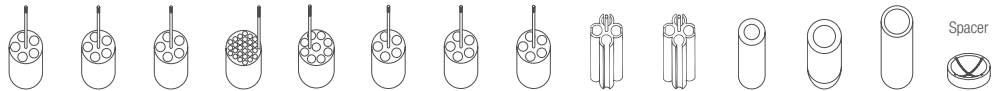
	
Adapter	
boring Ø x L in mm	11.5 x 38 11.5 x 38 6.5 x 23 10.5 x 23 12.5 x 44
vessels per rotor	36 36 120 48 48
Cat. No.	5277 5277 1357 1327 1326

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 tubes ²⁾

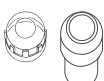
	
Adapter	
boring Ø x L in mm	11.2 x 38 11.2 x 38 11.2 x 38 6.5 x 34 10.5 x 43 13.4 x 48 13.4 x 48 13.4 x 48 17.6 x 91 17.6 x 91 25.2 x 87 35.2 x 87 38.5 x 92 45.9 x 98
vessels per rotor	20 20 20 108 36 20 20 20 16 16 4 4 4 4
Cat. No.	1351 1351 1351 1339 1343 1383 1383 1383 1329 1329 1330 1331 1396 0761

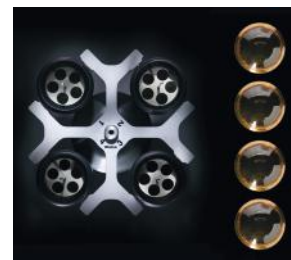
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.

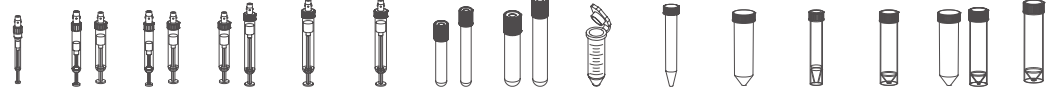
5) Tested by TÜV in conformity with DIN EN 61010, section 2 - 020.

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

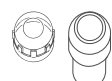
	
Vessels	
capacity in ml	10 30 50 85 30
Ø x L in mm	16 x 80 26 x 95 29x107 38x106 44x105
max. RCF ²⁾	2,522 2,451 2,630 2,612 2,540
radius in mm	141 137 147 146 142
Cat. No.	tubes with screw cap 0534⁶⁾

	
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

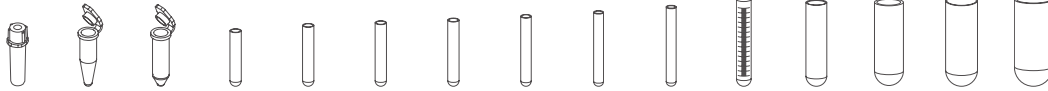
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 3) When using these tubes, bucket 1490 cannot be closed with lid 1492.
- 4) Please remove spacer.
- 5) Tested by TÜV in conformity with DIN EN 61010, section 2 - 020.
- 6) 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

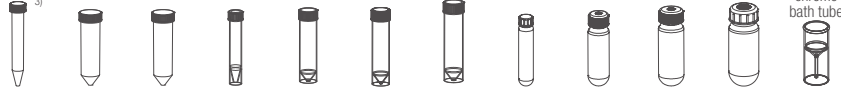


	
Vessels	
capacity in ml	0.5 1.5 2.0 1 3 4 5 6 7 9 15 25 50 94 100
Ø x L in mm	10.7x36 11x38 11x38 6x45 10x60 10x88 12x75 12x82 12x100 14x100 17x100 24x100 34x100 38x102 44x100
max. RCF ²⁾	2,343 2,415 2,415 2,558 2,594 2,594 2,522 2,522 2,522 2,504 2,504 2,397 2,379 2,576 2,522
radius in mm	131 135 135 143 145 145 141 141 141 140 140 134 133 144 141
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

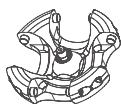
	
Vessels	
capacity in ml	15 ³⁾ 30 50 12 25 30 50 10 30 50 85 30
Ø x L in mm	17x120 25 x 110 29 x 115 17 x 100 25 x 90 25 x 110 29 x 115 16 x 80 26 x 95 29x107 38x106 44x105
max. RCF ²⁾	2,630 2,630 2,630 2,630 2,308 2,630 2,630 2,486 2,415 2,594 2,576 2,504
radius in mm	147 147 147 147 129 147 147 139 135 145 144 140
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



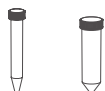
Rotor

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



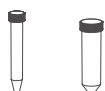
Rotor

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.	tubes²⁾					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	30.2 x 92	17.4 x 91	30.2 x 92	30.2 x 92	30.2 x 92
vessels per rotor	32	32	32	32	32	32	32	32	32	32	8	32	8	8	8
Cat. No.	1467	1467	1467	1467	1467	1467	1467	1467	1467	1467	1468	1467	1468	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.

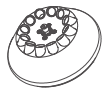
The max. RCF for glass tubes annotated with footnote 2) is 4,000.

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	10
Ø x L in mm	10.7x36	10x88	12x75	12x82	17x100	8 x 66	13x65	11x66	11x92	13x90	15x92	16x92	15x102
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	4,146
radius in mm	69	87	82	82	103	82	82	82	103	103	103	103	103
Cat. No.	Pediatric	tubes ²⁾				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	17.7 x 88
vessels per rotor	12	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:

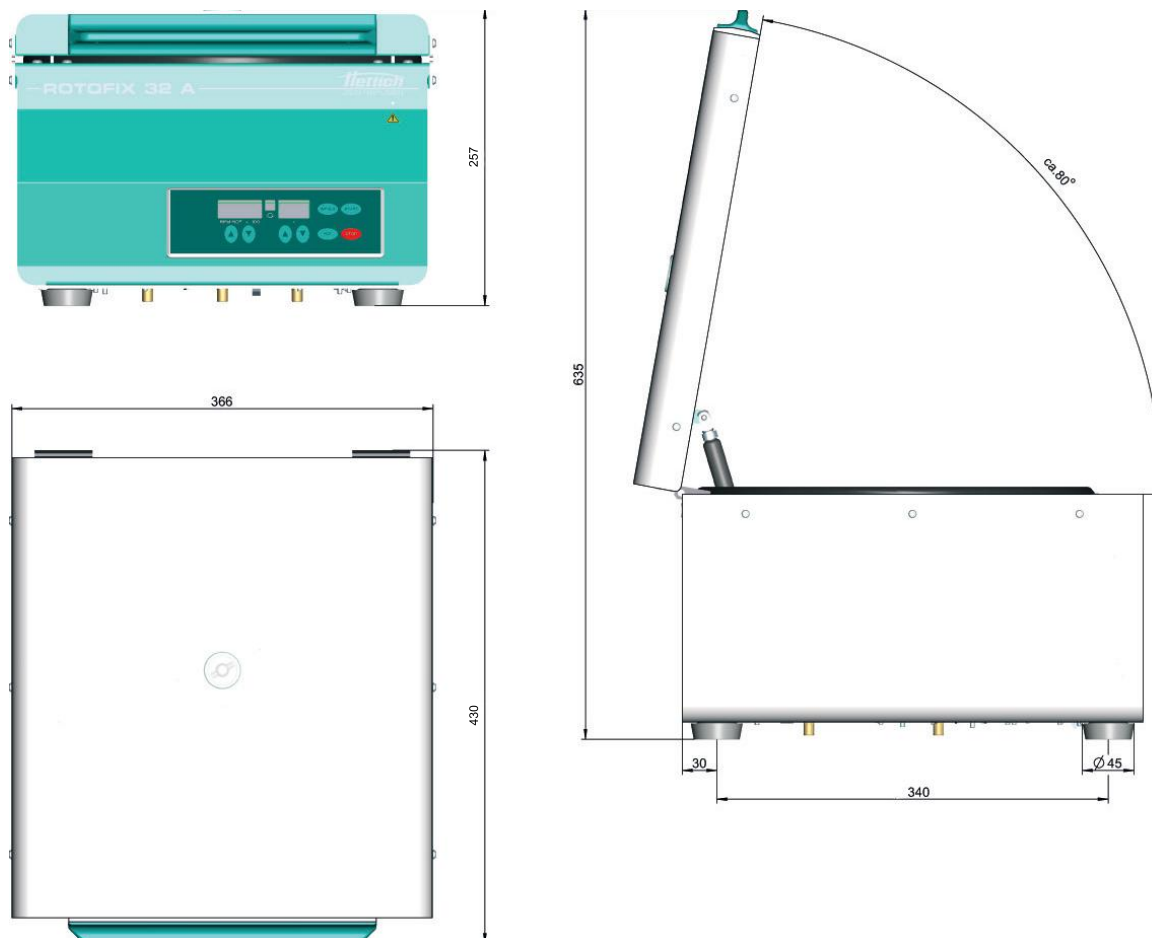


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Incubators



- Excellent incubation conditions for the applications in microbiology and biology; clinical diagnostic laboratories in the fields of medical, biotechnology and veterinary sciences; and quality control laboratories of different industries such as pharmaceutical, food, dairy, beverage and cosmetics
- Very homogeneous temperature distribution by natural air convection: Minimum turbulence and no cross contamination
- Anodic-oxidated aluminium chamber
- Frameless inner glass door for the observation of the samples without any temperature drop
- Reliable and accurate N-Prime™ programmable PID microprocessor control system
- User friendly control panel including large bright LED displays for temperature and time
- Easy programming with one button, just turn and push
- Password protected menu to secure the operation
- Programmable alarm limits
- Data recording on memory stick by means of USB port up to 125 days
- Programmable delayed start function
- Adjustable independent safety thermostat which takes over control in case of any failure

N-prime

TECHNICAL SPECIFICATIONS

	EN 300	EN 400	EN 500
Temperature Range	Ambient Temp + 5°C / 80°C		
Temperature Sensor	Fe-Const		
Control System	N-Prime™ Programmable Microprocessor		
Temperature Set and Display Sensitivity	0,1°C		
Temperature Variation (up to 40 °C)	± 0,5°C		
Temperature Fluctuation	± 0,1°C		
Programmable Alarm Limits	± 0,5°C / 5°C		
Timer	1 minute – 99,9 hours + Hold Position		
Delayed Start Timer	1 minute – 99,9 hours		
Selectable Recording Frequency on Memory Stick	10 or 30 seconds, 1, 5, 30 or 60 minutes		
Useful Volume, litres	22	48	120
Number of Shelves (Standard/ Max.)	2/6	2/7	2/10
Internal Material	Anodic-oxidated Aluminium		
External Material	Epoxy - Polyester Powder Coated Steel		
Power Consumption	100 W	250 W	350 W
Power Supply	230 V, 50/60 Hz		
Internal Dimensions (WxDxH) mm.	300x240x300	420x320x360	500x490x500
External Dimensions (WxDxH) mm.	555x380x460	705x475x540	785x635x680
Packing Dimensions (WxDxH) mm.	640x470x640	790x570x760	870x740x860
Net / Packed Weight kg.	26 / 31	39 / 45	60 / 70

ACCESSORIES

R 01 014 Aluminium Shelf for EN 300

R 01 136 Mesh type shelf for EN 400

R 01 135 Mesh type shelf for EN 500

K 23 031 Shelf carrier for EN 300

K 23 047 Shelf carrier for EN 400

K 23 046 Shelf carrier for EN 500

Note: 2 pcs. shelf carrier should be ordered for each shelf



NUVE SANAYİ MALZEMELERİ İMALAT VE TİCARET A.Ş.

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ISO 13485: 2003





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- Excellent Incubation conditions for the applications in microbiology and biology; clinical diagnostic laboratories in the fields of medical, biotechnology and veterinary sciences; and quality control laboratories of different industries such as pharmaceutical, food, dairy, beverage and cosmetics
- Air jacketed heating system for highly precise and constant temperatures
- Very homogeneous temperature distribution by natural air convection: Minimum turbulence and no cross contamination
- Triple insulation consisting of glass wool, aluminium layer and air gap for high efficiency
- Stainless steel chamber having smooth surfaces for easy cleaning and decontamination
- Frameless inner glass door for observation of the samples without any temperature drop
- Reliable and accurate N-Prime™ programmable PID microprocessor control system
- User friendly control panel including large bright LED displays for temperature and time
- Easy programming with one button, just turn and push
- Password protected menu to secure the operation
- Programmable alarm limits
- Data recording on memory stick by means of USB port up to 125 days
- Programmable delayed start function
- Highly visible dual displays for temperature and time
- Adjustable independent safety thermostat which takes over control in case of any failure

N-prime

TECHNICAL SPECIFICATIONS

	EN 032	EN 055	EN 120
Temperature Range	Ambient Temp + 5°C / 100°C		
Temperature Sensor	Fe-Const		
Control System	N-Prime™ Programmable Microprocessor		
Temperature Set and Display Sensitivity	0,1°C		
Temperature Variation* @37°C @56°C	≤ ±0,5°C ≤ ±1°C		
Temperature Fluctuation* @37°C @56°C	±0,1°C ±0,2°C		
Programmable Alarm Limits	± 0,5°C / 5°C		
Timer	1 minute – 99,9 hours + Hold Position		
Delayed Start Timer	1 minute – 99,9 hours		
Selectable Recording Frequency on Memory Stick	10 or 30 seconds, 1, 5, 30 or 60 minutes		
Useful Volume, litres	32	55	120
Number of Shelves (Standard/ Max.)	2/6	2/7	2/10
Internal Material	Stainless Steel		
External Material	Epoxy - Polyester Powder Coated Steel		
Power Consumption	300 W	350 W	400 W
Power Supply	230 V, 50/60 Hz		
Internal Dimensions (WxDxH) mm.	330x300x335	420x370x365	500x480x500
External Dimensions (WxDxH) mm.	565x500x685	645x560x710	730x670x850
Packing Dimensions (WxDxH) mm.	670x600x920	720x650x930	800x750x1070
Net / Packed Weight kg.	38 / 42	46 / 49	57 / 66

*At 22°C ambient temperature, closed ventilation hole

FACTORY FITTED OPTION

EN XXX N N-Smart™ Control system

OPTIONS FOR N-Smart™ CONTROL SYSTEM

A 08 190 NuveCom™ communication Unit
A 08 191 NuveCloser™ Software CD with 3 m. RS 232 cable (should be ordered with A 08 190)
A 08 195 AlerText™ GSM alarm module (should be ordered with A 08 190)

ACCESSORIES

R 01 133 Mesh type shelf for EN 032
R 01 127 Mesh type shelf for EN 055
R 01 131 Mesh type shelf for EN 120
K 23 049 Shelf carrier for (EN 032)
K 23 048 Shelf carrier for (EN 055)
K 23 040 Shelf carrier for (EN 120)
Note: 2 pcs. shelf carrier should be ordered for each shelf



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