

ROTOS

LOHA



ROTOFIX 32 A
Benchtop Centrifuge

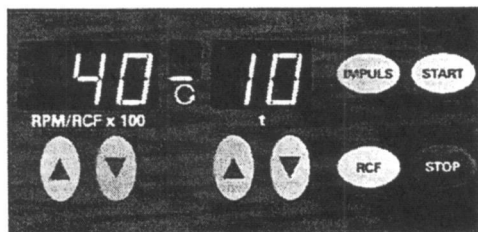
Schoeller
INSTRUMENTS

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Hettich
ZENTRIFUGEN

ROTOFIX 32 A

The ROTOFIX 32 A is a rugged, versatile and indispensable centrifuge for routine laboratory tasks in doctors' practices and small hospitals. But not only is the ROTOFIX 32 A ideally equipped for tasks in clinical chemistry, it can also play a vital role in cytology. Yet this versatile centrifuge can handle a lot more than medical applications. With its wide variety of accessories, the ROTOFIX 32 A can also be used for the preparation of samples in industrial and research laboratories. Tubes that are suitable for chrome bath testing are also available.



Control panel (E control panel)

PERFORMANCE

- max. RCF: 4,226
- max. capacity: 4 x 100 ml
 - max. 32 x 15 ml
 - max. 8 slide carriers for cyto preparations

98/79/EG

DESIGN

- metal housing and lid
- stainless steel centrifuging chamber
- practical lid locking device
- viewing port in the lid

SAFETY

- lid locking and holding
- imbalance switch-off
- automatic rotor recognition
- emergency lid lock release

DISPLAY AND CONTROLS

- foil keypad
 - fast, precise and easy entry of the parameters via selector keys
- speed RPM
 - entry in increments of 100
- time t/min
 - entry in minutes, max. 99 min.
- impulse key
 - for short centrifuging
- RCF key
 - Indication of the RCF during centrifugation, as long as the key is pressed. This requires the previous entry of the rotor radius.



ROTOFIX 32 A
Cat. No. 1206

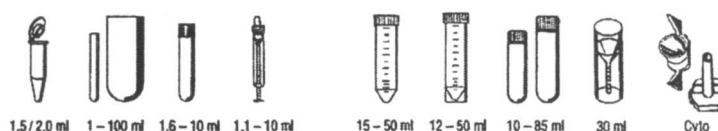
ROTORS

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



Swing-out rotor, 4-place

±90°
n = 4,000 min⁻¹
max. RCF 2,665
Cat. No. 1624



→
Page
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Swing-out rotor, 4-place

±90°
n = 4,000 min⁻¹
max. RCF 2,630
Cat. No. 1324



→
Page
6-8



Swing-out rotor, 8-place

±90°
n = 4,000 min⁻¹
max. RCF 2,415
Cat. No. 1611



→
Page
8



Swing-out rotor, 6-place

±90°
n = 4,000 min⁻¹
max. RCF 2,701
Cat. No. 1619



→
Page
8



Swing-out rotor, 12-place

±55° - 80°
n = 4,000 min⁻¹
max. RCF 2,683
Cat. No. 1628

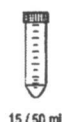


→
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9



Swing-out rotor, 8-place

±45°
n = 4,000 min⁻¹
max. RCF 2,469
Cat. No. 1617



→
Page
9



Angle rotor, 8-place

±45°
n = 4,000 min⁻¹
max. RCF 2,594
Cat. No. 1418



→
Page
9



Angle rotor, 12-place

±35°
n = 6,000 min⁻¹
max. RCF 4,146
Cat. No. 1613

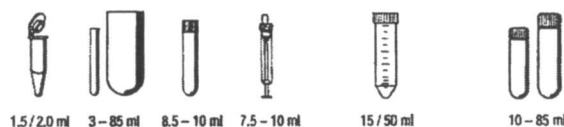


→
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10



Angle rotor, 6-place

±35°
n = 6,000 min⁻¹
max. RCF 4,226
Cat. No. 1620A



→
Page
11



Cyto rotor, 6-place

n = 4,000 min⁻¹
max. RCF 2,039
Cat. No. 1626

Detailed information on our comprehensive range of cyto accessories is provided in a separate brochure. We will be pleased to send one to you on request.



Cyto



Cyto rotor, 8-place

n = 4,000 min⁻¹
max. RCF 2,218
Cat. No. 1648

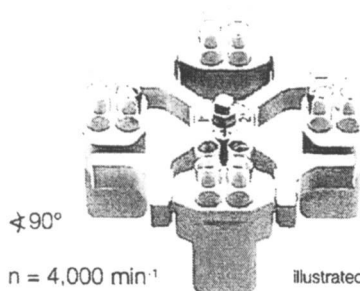


Cyto

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

ROTORS AND ACCESSORIES

Swing-out rotor, 4-place



90°

$n = 4,000 \text{ min}^{-1}$
max. RCF 2,665

illustrated with carriers 1369

Cat. No. (without carriers) **1624**

capacity in ml	5		6	7	9		15		20	25	45	50	1.1 – 1.4	2.6 – 3.4
Ø x L in mm	12 x 75		12 x 82	12 x 100	14 x 100		17 x 100		21 x 100	24 x 100	31 x 100	34 x 100	8 x 66	13 x 65
Cat. No.	0553 ²⁾		0501 ²⁾	0578 ²⁾	0500 ²⁾		0518 ²⁾		-	0519 ²⁾	-	0521 ²⁾	blood/urine tubes	
 rotor Cat. No. 1624														
	 with decanting aid		 with decanting aid			 + Ø701							 + Ø701	 + Ø715
Cat. No.	1369-91	1372	1369-92		1370	1741	1369	1742	1346	1745	1345	1746	1741	1742
boring Ø x L in mm	11.5 x 64.4	13.5 x 65	11.5 x 71.5		14.6 x 74	14.6 x 78	17.6 x 74	17.6 x 78	21.5 x 74	26 x 78	32 x 74	35 x 78	14.6 x 78	17.6 x 78
tubes per rotor	16	68	16		20	40	16	28	8		4		40	28
max. RCF ²⁾	2,057	2,164	2,308			2,415	2,308	2,451	2,361	2,451	2,361	2,451	2,415	2,325
radius in mm	115	121	129			135	129	137	132	137	132	137	135	130
run-up in sec	22													
run-down in sec, braked	25													

capacity in ml	4–5.5	4.9	1.6–5	4–7	8.5–10	30	suspensions for cyto accessories
Ø x L in mm	15 x 75	13 x 90	13 x 75	16 x 75	16 x 100	26 x 95	
Cat. No.	blood collection/urine tubes					0545	cyto chambers ³⁾
 rotor Cat. No. 1624							
							
Cat. No.	1742	1741	1742	1369	1745	1660	1680
boring Ø x L in mm	17.6 x 78	14.6 x 78	17.6 x 78	17.6 x 74	26 x 78	-	-
tubes per rotor	28	40	28	16	8	4	4
max. RCF ²⁾	2,325	2,451	2,325	2,308	2,451	1,646	1,467
radius in mm	130	137	130	129	137	92	82
run-up in sec	22						
run-down in sec, braked	25						

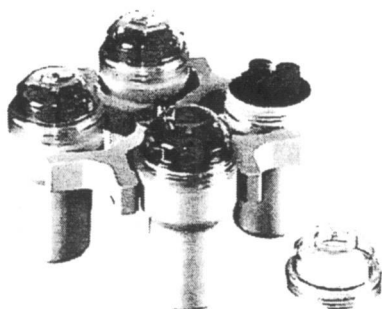
capacity in ml	1.5	2.0	1	3	4
Ø x L in mm	11 x 38	6 x 45	10 x 60	12 x 60	12 x 60
Cat. No.	2078	0536	Rhesus	-	-
 carrier Cat. No. 1366					
					
Cat. No.	5277	1357	1327	1326	
boring Ø x L in mm	11.5 x 38	6.5 x 23	10.5 x 23	12.5 x 44	
tubes per rotor	36	120	48		
max. RCF ²⁾	1,968	1,950	1,932		
radius in mm	110	109	108		
run-up in sec	22				
run-down in sec, braked	25				

¹⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

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 ask for our detailed cyto brochure.

ROTORS AND ACCESSORIES



Illustrated with carriers 1481 and lids 1492
with bio-containment¹⁾

Swing-out rotor Cat. No. (without carriers) **1624**

capacity in ml	1.5	2.0	1	3	5/6/7	9	15	25	50	85	100	1.1-1.4	2.7-5	2.6-4.9	4-8.5
Ø x L in mm	11 x 38		6 x 45	10 x 60	12 x 75/82/100	14 x 100	17 x 100	24 x 100	34 x 100	38 x 101	44 x 100	8 x 66	11 x 66/92	13 x 65/90	15 x 75/92
Cat. No.	2078	0536	Rhesus	-	0553 ²⁾ /0501 ²⁾ /0578 ²⁾	0500 ²⁾	0518 ²⁾	0519 ²⁾	0521 ²⁾	0549	0526 ²⁾	blood/urine tubes			
lid with bio-containment ¹⁾ Cat. No. 1492															
carrier Cat. No. 1481															
Cat. No.	1351	1339	1343	1383	1329	1330	1331	1396	0761	1457	1383	1459			
boring Ø x L in mm	11.2 x 38	6.5 x 34	10.5 x 43	13.4 x 48	17.6 x 91	25.2 x 87	35.2 x 87	38.5 x 92	45.9 x 98	9 x 47	13.4 x 48	15.6 x 47			
tubes per rotor	20	108	36	20	16	4				28	20	16			
max. RCF ²⁾	2,451	2,594	2,630	2,558	2,540	2,433	2,415	2,612	2,558	2,576	2,558	2,576			
radius in mm	137	145	147	143	142	136	135	146	143	144	143	144			
run-up in sec	22														
run-down in sec, braked	25														

capacity in ml	9-10	10	1.6-7	4-10	15	50	12	25	30	50	10	30	50	85	30
Ø x L in mm	16 x 92	15 x 102	13 x 75/100	16 x 75/100	17 x 120	29 x 115	17 x 100	25 x 90	25 x 110	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	44 x 105
Cat. No.	blood collection/urine tubes				0509	0513	-	-	-	-	-	0545	0546	0547	0534 ⁵⁾
lid with bio-containment ¹⁾ Cat. No. 1492															
carrier Cat. No. 1481															
Cat. No.	1329	1329 ⁴⁾	1383	1348	1347	1384	6311	1363	1365	6318	1348	4417	4416	1396	0765
boring Ø x L in mm	17.6 x 91	13.4 x 48	16.5 x 56	17 x 90	30 x 90	17 x 80	26 x 72	26 x 80	29.5 x 80	16.5 x 56	26 x 83	29 x 93	38.5 x 92	45.9 x 98	
tubes per rotor	16	20	16	4				16				4			
max. RCF ²⁾	2,540	2,665	2,558	2,522	2,665	2,343	2,665	2,522	2,451	2,630	2,612	2,540			
radius in mm	142	149	143	141	149	131	149	141	137	147	146	142			
run-up in sec	22														
run-down in sec, braked	25														

⁴⁾ Please remove the inserts.

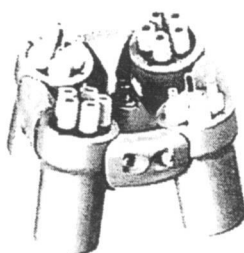
⁵⁾ A rubber stopper for closing the tube is available under Cat. No. 0535.

The tube may not be centrifuged with the stopper. The stopper only serves to close the tube for agitating or mixing.

ROTORS AND ACCESSORIES

Swing-out rotor, 4-place

± 90°



$n = 4,000 \text{ min}^{-1}$
max. RCF 2,630

illustrated with carriers 1398

Cat. No. (without carriers) **1324**

capacity in ml	1.5	2.0	1	3	4	5	6	7	9	15	25	50	85	100
Ø x L in mm	11x38		6x45	10x60	10x88	12x75	12x82	12x100	14x100	17x100	24x100	34x100	38x101	44x100
Cat. No.	2078	0536	Rhesus	-	-	0553 ²⁾	0501 ²⁾	0578 ²⁾	0500 ²⁾	0518 ²⁾	0519 ²⁾	0521 ²⁾	0549	0526 ²⁾
lid with bio-containment ¹⁾ Cat. No. 1492														
carrier Cat. No. 1490														
Cat. No.	1351		1339	1343		1383			1329		1330	1331	1396	0761
boring Ø x L in mm	11.2x38		6.5x34	10.5x43		13.4x48			17.6x91		25.2x87	35.2x87	38.5x92	45.9x100.5
tubes per rotor	20		108	36		20			16		4			
max. RCF ²⁾	2,415		2,558	2,594		2,522			2,504		2,397	2,379	2,576	2,522
radius in mm	135		143	145		141			140		134	133	144	141
run-up in sec	27													
run-down in sec, braked	30													

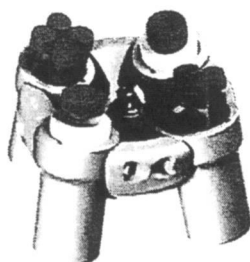
capacity in ml	1.1-1.4	2.6-3.4	4.9	2.7-3	4.5-5	4-5.5	7.5-8.5	9-10	10	1.6-5	4-7	4-7	8.5-10	
Ø x L in mm	8x66	13x65	13x90	11x66	11x92	15x75	15x92	16x92	15x102	13x75	13x100	16x75	16x100	
Cat. No.	blood collection/urine tubes													
lid with bio-containment ¹⁾ Cat. No. 1492														
carrier Cat. No. 1490														
Cat. No.	1457	1383				1459		1329	1329 ⁴⁾	1383		1348		
boring Ø x L in mm	9x47	13.4x48				15.6x47		17.6x91			13.4x48		16.5x56	
tubes per rotor	28	20				16				20		16		
max. RCF ²⁾	2,540	2,522				2,540		2,504	2,630	2,522		2,486		
radius in mm	142	141				142		140	147	141		139		
run-up in sec	27													
run-down in sec, braked	30													

¹⁾ Tested by the TÜV in conformity with DIN EN 61010, section 2-020

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.

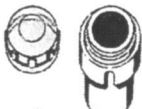
⁴⁾ Please remove the inserts

ROTORS AND ACCESSORIES



illustrated with carriers 1398

Swing-out rotor 1324

capacity in ml	15		30	50	12	25	30	50	10	30	50	85	30
Ø x L in mm	17 x 120		25 x 110	29 x 115	17 x 100	25 x 90	25 x 110	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	44 x 105
Cat. No.	0509		-	0513	-	-	-	-	-	0545	0546	0547	0534 ⁵⁾
lid with bio-containment ¹⁾ Cat. No. 1492													
 carrier Cat. No. 1490													
Cat. No.	1347	1356	1365	1384	6311	1363	1365	6318	1348	4417	4416	1396	0765
boring Ø x L in mm	17 x 90	17 x 107	26 x 80	30 x 90	17 x 80	26 x 72	26 x 80	29.5 x 80	16.5 x 56	26 x 83	29 x 93	38.5 x 92	45.9 x 100.5
tubes per rotor	4	12	4						16		4		
max. RCF ²⁾	2,630		2,630			2,308	2,630		2,486	2,415	2,594	2,576	2,504
radius in mm	147		147			129	147		139	135	145	144	140
run-up in sec	27												
run-down in sec, braked	30												

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	12
Ø x L in mm	12 x 75	12 x 82	12 x 100	14 x 100	17 x 100	13 x 65	11 x 66	15 x 75	11 x 92	13 x 90	16 x 92	15 x 102	13 x 75	13 x 100	16 x 75	17 x 102
Cat. No.	0553 ²⁾	0501 ²⁾	0578 ²⁾	0500 ²⁾	0518 ²⁾	blood collection/urine tubes										
 carrier Cat. No. 1398																
						 + 2 x 0716							 + 0716			
Cat. No.	1486		1482A		1486	1482A	1486	1482A		1486		1482A		1486	1482A	1487
boring Ø x L in mm	13.4 x 57.5		17.5 x 81		13.4 x 57.5	17.5 x 81	13.4 x 57.5	17.5 x 81		17.5 x 81		13.4 x 57.5		17.5 x 81	17.5 x 81	17.5 x 74
tubes per rotor	20		16		20	16	20	16		16		20		16	12	
max. RCF ²⁾	2,486		2,522		2,486	2,272	2,486	2,522		2,486		2,397		2,451		
radius in mm	139		141		139	127	139	141		139		134		137		
run-up in sec	27															
run-down in sec, braked	30															

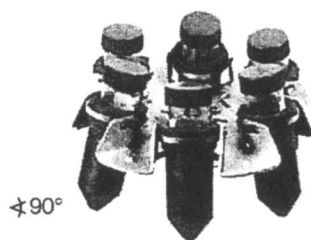
⁵⁾ A rubber stopper for closing the tube is available under Cat. No. 0535.

The tube may not be centrifuged with the stopper. The stopper only serves to close the tube for agitating or mixing.

⁶⁾ When using these tubes, bucket 1490 cannot be closed with lid 1492.

ROTORS AND ACCESSORIES

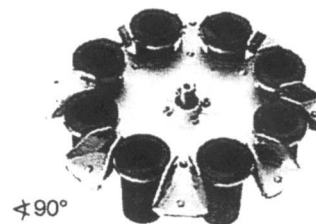
Swing-out rotor, 6-place



$n = 4,000 \text{ min}^{-1}$
max. RCF 2,701

Cat. No. (with carriers) 1619

Swing-out rotor, 8-place



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

Cat. No. (without carriers) 1611

Swing-out rotor 1324

capacity in ml	15	50	12	50
Ø x L in mm	17x120	29x115	17x100	29x115
Cat. No.	0509	0513	-	-
 carrier Cat. No. 1398				
				
Cat. No.	1483A	1484	1482A	1484 ⁴⁾
boring Ø x L in mm	17x100	30x98	17.5x81	30x98
tubes per rotor	16	4	16	4
max. RCF ²⁾	2,612	2,576	2,522	2,576
radius in mm	146	144	141	144
run-up in sec	27			
run-down in sec, braked	30			

capacity in ml	15	50
Ø x L in mm	17x120	29x115
Cat. No.	0509	0513
 rotor Cat. No. 1619		
		
Cat. No.	1462-A	-
boring Ø x L in mm	17 x 84	30x87.5
tubes per rotor	6	
max. RCF ²⁾	2,701	
radius in mm	151	
run-up in sec	22	
run-down in sec, braked	25	

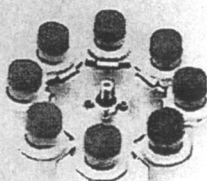
capacity in ml	5	6	7	10	15	2.6-3.4	2.7-3	4-5.5	4.5-5	7.5-8.5	1.6-5	4-7	4-7	8.5-10	
Ø x L in mm	12x75	12x82	12x100	17x70	13x100	17x100	13x65	11x66	15x75	11x92	15x92	13x75	13x100	16x75	16x100
Cat. No.	0553 ²⁾	0501 ²⁾	0578 ²⁾	2079	-	0518 ²⁾	blood collection/urine tubes								
 rotor Cat. No. 1611															
															
Cat. No.	1131	1643	1132	1643	1644	1131	1132	1643	1644	1131	1643	1132	1644		
boring Ø x L in mm	13 x 53	13.2x 81	17.5 x 53	13.2x 81	17.5 x 81	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		
tubes per rotor	8														
max. RCF ²⁾	1,914	2,415	1,914	2,415	2,415	1,914	2,415	1,914	2,415	1,914	2,415	1,914	2,415		
radius in mm	107	135	107	135	135	107	135	107	135	107	135	107	135		
run-up in sec	22														
run-down in sec, braked	25														

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 inserts

ROTORS AND ACCESSORIES

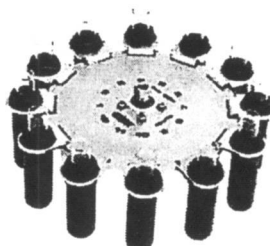
Swing-out rotor, 8-place

 $\angle 45^\circ$

n = 4,000 min⁻¹
max. RCF 2,469

Cat. No. (with carriers) 1617

Swing-out rotor, 12-place



455°
(with carriers 1127)

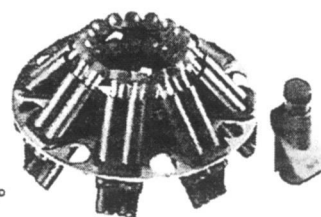
460°
(with carriers 1122)

480°
(with carriers 1621)

n = 4,000 min⁻¹
max. RCF 2,683

Cat. No. (without carriers) **1628**

Angle rotor, 8-place

 $\angle 45^\circ$

n = 4,000 min⁻¹
max. RCF 2,594

Cat. No. (without adapters) 1418

capacity in ml	15	50
Ø x L in mm	17 x 120	29 x 115
Cat. No.	0509	0513
 rotor Cat. No. 1617		
		
Cat. No.	1462-A	-
boring Ø x L in mm	17 x 84	30 x 94.5
tubes per rotor	8	
max. RCF ²⁾	2,469	
radius in mm	138	
run-up in sec	22	
run-down in sec, braked	25	

capacity in ml	5	10	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	12 x 75	17 x 70	17 x 100	13 x 65	11 x 66	15 x 75	15 x 92	13 x 75	16 x 75	16 x 100
Cat. No.	0553 ²⁾	2079	0518 ²⁾	blood collection/urine tubes						
 rotor Cat. No. 1628										
										
Cat. No.	1127	1122	1621	1127	1122	1621	1127	1122	1621	
boring Ø x L in mm	13.2 x 53	17.5 x 53	17.5 x 79	13.2 x 53	17.5 x 53	17.5 x 79	13.2 x 53	17.5 x 53	17.5 x 79	
tubes per rotor	12									
max. RCF ²⁾	2,236	2,254	2,683	2,236	2,254	2,683	2,236	2,254	2,683	
radius in mm	125	126	150	125	126	150	125	126	150	
run-up in sec	22									
run-down in sec, braked	25									

capacity in ml	5	15	1.1-1.4	2.6-3.4	2.7-3	9-10	1.6-5	8.5-10	12	15	50	12	50	50
Ø x L in mm	12x75	17x100	8x66	13x65	11x66	16x92	13x75	16x100	17x102	17x120	29x115	17x100	29x115	29x107
Cat. No.	0553 ²⁾	0518 ²⁾	blood collection/urine tubes							0509	0513	-	-	0546
 rotor Cat. No. 1418														
														
Cat. No.	1467	1467	1467			1467					1468	1467	1468	
boring Ø x L in mm	17.4x91	17.4x91	17.4x91			17.4x91					30.2x92	17.4 x 91	30.2 x 92	
tubes per rotor	32	32	32			32					8	32	8	
max. RCF ²⁾	2,182	2,540	2,182			2,540	2,182	2,540		2,594	2,486	2,540	2,486	
radius in mm	122	142	122			142	122	142		145	139	142	139	
run-up in sec	36													
run-down in sec, braked	43													

ROTORS AND ACCESSORIES

Angle rotor, 12-place



±35°

$n = 6,000 \text{ min}^{-1}$
max. RCF 4,146

Cat. No. 1613

capacity in ml	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	10x88	12x75	12x82	17x100	8x66	13x65	11x66	11x92	13x90	15x92	16x92	15x102
Cat. No.	-	0553 ²⁾	0501 ²⁾	0518 ²⁾	blood collection/urine tubes							
 rotor Cat. No. 1613												
												
Cat. No.	6305	1054-A	-		1054-A							
boring Ø x L in mm	11.5x67.5	13.5x60	17.7x88		13.5x60					17.7x88		
tubes per rotor	12											
max. RCF ²⁾	3,502	3,300	4,146		3,300					4,146		
radius in mm	87	82	103		82					103		
run-up in sec	13											
run-down in sec, braked	15											

capacity in ml	1.6–5	4–7	8	8.5–10	15
Ø x L in mm	13x75	13x100	16x125	16x100	17x120
Cat. No.	blood collection/urine tubes				0509
 rotor Cat. No. 1613					
					
Cat. No.	1054-A	1058	-		
boring Ø x L in mm	13.5x60	13.5x79	17.7x88		
tubes per rotor	12	12	6	12	6
max. RCF ²⁾	3,300	4,146			
radius in mm	82	103			
run-up in sec	13				
run-down in sec, braked	15				

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.
⁷⁾ 6-place adapter set for conical 50 ml tubes with screw cap

ROTOFIX 32 A

TECHNOLOGY

ROTOFIX 32 A

Benchtop centrifuge, without rotor		
Power supply ^{*)}	208 – 240 V 1 ~	100 – 127 V 1 ~
Frequency	50 – 60 Hz	
Consumption	300 VA	
Emission, Immunity	EN / IEC 61326-1, class B	FCC class B
 Max. capacity	4 x 100 ml / 32 x 15 ml	
 Max. RPM (speed)	6,000 min ⁻¹	
Max. RCF	4,226	
Running time	1 – 99 min, ∞ continuous run, short cycle mode (impulse key)	
Dimensions (HxWxD)	257 x 366 x 430 mm	
Weight	approx. 23 kg	
Cat. No.	1206	1206-01

^{*)} Other voltages on request.



Hettich centrifuges comply with all relevant EU standards in effect and conform to the European level of quality and safety for medical devices. Evidence is provided by national and international test marks such as IEC 61010 or the CE conformity. The ISO 9001, ISO 13485 and ISO 14001 certificates accredited to the company bear witness to the extreme care and responsibility Hettich puts into the manufacturing of centrifuges and their accessories.



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