

TOP
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EBA 21
Small Centrifuge

Maximum performance in microlitre centrifugation coupled with reliability in daily laboratory tasks.

The EBA 21 is powerful and versatile not only in microlitre centrifugation. Equipped with a variable, maintenance-free frequency drive, this centrifuge generates a max. RCF of 25,718 at a speed of 18,000 min⁻¹.

With its wide range of rotors, the EBA 21 easily meets all demands placed on a small, high-performance centrifuge.

PERFORMANCE

- High RCF
 - up to 3,904 with 50 ml tubes
 - up to 25,718 with microlitre tubes
- Extremely short run-up and run-down times
- Wide range of accessories
 - angle and swing-out rotors
 - adapters for many different centrifuge tubes



TECHNOLOGY

- Twist lock for effortless opening and closing of the lid
- Ergonomically arranged controls and displays
- Viewing port in the lid
- 3 complete running programmes can be stored and recalled

SAFETY

- Metal housing and lid
- Centrifuging chamber of stainless steel
- Lid locking and holding
- Lid dropping protection
- Emergency lid lock release
- Imbalance switch-off
- Automatic rotor recognition



EBA 21

Cat. No. 1004

OPERATION AND CONTROL

The fully developed up to date N control panel meets the requirements of the users and is extremely easy to operate.



Keypad of the EBA 21 (N control panel)

DIGITAL DISPLAY AND CONTROL PANEL

KEYPAD

← Guides the user through the menu options.

▲ Increases the relevant value.

▼ Decreases the relevant value.

IMPULS For short centrifugation steps.

START Starts centrifugation.

STOP Stops centrifugation manually.

PROG Stores the program.

RCF Switches from RPM to RCF display.
Entry of the RCF in increments of 10.
Input of rotor radius in mm in RCF mode.



Entry of the run-up time in ramps 1-9
Entry of the run-down time in ramps 1-9

An LED lights up:



· in the event of imbalance,



· as long as the rotor is rotating,



· when the lid can be opened on completion of the program.

ENTRY OF THE PARAMETERS

PROG Program number. Three programmable memories are available.

>RCF< Relative centrifugal force.

RPM Speed indication. Entry in increments of 10.

t/min:s Centrifugation time (max. 99 min : 59 sec).



ROTORS AND ACCESSORIES

Angle rotor, 6-place



∠ 35°

n = 6,000 min⁻¹
max. RCF 4,025

Cat. No. 1116

Angle rotor, 12-place



∠ 35°

n = 6,000 min⁻¹
max. RCF 4,146

Cat. No. 1416

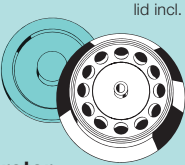








capacity in ml	7	15	25	50	9-10	10	1.6-5 ml	4-7 ml	15	50	30	50
Ø x L in mm	12x100	17x100	24x100	34x100	16x92	15x102	13 x 75	13 x 100	17x120	29x115	26x95	29x107
Cat. No.	0578 ²⁾	0518 ²⁾	0519 ²⁾	0521 ²⁾	blood collection / urine tubes				0509	0513	0545	0546
 rotor Cat. No. 1116												
Cat. No.	1632	1635	1633	-	1635				1631	1641	1633	1634
boring Ø x L in mm	13x92	17.5x95	26x88	35x96	17.5x95				17x98	30x98	26x88	29x95
tubes per rotor	18	6			6				6	3	6	
max. RCF ²⁾	3,944	3,783	3,703	4,025	3,783		2,978	3,783	3,824	3,824	3,703	3,904
radius in mm	98	94	92	100	94		74	94	95	95	92	97
run-up in sec	23											
run-down in sec	☐ 27 ☐ 624											

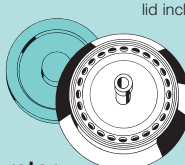








capacity in ml	5	15	1.1-1.4	2.6-3.4	2.7-3	4.5-5	4.9	7.5-8.5	9-10	10	1.6-5	4-7	8	8.5-10	15	
Ø x L in mm	12x75	17x100	8x66	13x65	11x66	11x92	13x90	15x92	16x92	15x102	13x75	13x100	16x125	16x100	17x120	
Cat. No.	0553 ²⁾	0518 ²⁾	blood collection/urine tubes										0509			
 rotor Cat. No. 1416																
Cat. No.	1054-A	-	1054-A			-						1054-A	-			
boring Ø x L in mm	13.5x60	17.7x88	13.5x60			17.7x88						13.5x60	17.7x88			
tubes per rotor	12	12	12			12						12	12	6	12	6
max. RCF ²⁾	3,300	4,146	3,300			4,146						3,300	4,146			
radius in mm	82	103	82			103						82	103			
run-up in sec	18															
run-down in sec	☐ 23 ☐ 391															

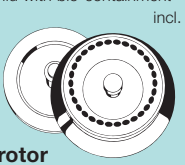








²⁾ Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote ²⁾ is 4,000.

ROTORS AND ACCESSORIES

Angle rotor, 12-place	Angle rotor, 24-place	Angle rotor, 30-place
		
↘ 45°	↘ 40°	↘ 45°
n = 18,000 min ⁻¹ max. RCF 25,718	n = 15,000 min ⁻¹ max. RCF 21,382	n = 14,000 min ⁻¹ max. RCF 21,255
Cat. No. 1022	Cat. No. 1024	Cat. No. 1089-A with bio-containment ⁵⁾

capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0
Ø x L in mm	6x18	6x45	8x30	8x45	11x38	
Cat. No.	-			2078	0536	
 lid incl.						
rotor Cat. No. 1022						
Cat. No.	2024	2023	2031⁷⁾	-		
boring Ø x L in mm	6x40		8x40	10.2x19	11.2x39.5	
tubes per rotor	12					
max. RCF ²⁾	25,718					
radius in mm	71					
run-up in sec	16					
run-down in sec	☐ 19 ☐ 359					

capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0
Ø x L in mm	6x18	6x45	8x30	8x45	11x38	
Cat. No.	-			2078	0536	
 lid incl.						
rotor Cat. No. 1024						
Cat. No.	2024	2023	2031⁷⁾	-		
boring Ø x L in mm	6x40		8x40	10.2x19	11.2x41.1	
tubes per rotor	24					
max. RCF ²⁾	21,382					
radius in mm	85					
run-up in sec	30					
run-down in sec	☐ 31 ☐ 419					

capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0
Ø x L in mm	6x18	6x45	8x30	8x45	11x38	
Cat. No.	-			2078	0536	
 lid with bio-containment ⁵⁾ incl.						
rotor Cat. No. 1089-A						
Cat. No.	2024	2023	2031⁷⁾	-		
boring Ø x L in mm	6x40		8x40	10.2x19	11.2x40.9	
tubes per rotor	30					
max. RCF ²⁾	21,255					
radius in mm	97					
run-up in sec	40					
run-down in sec	☐ 40 ☐ 800					

Optional for rotor 1024



lid Cat. No. **2425**
with bio-containment⁵⁾,
autoclavable



lid Cat. No. **2423**
with bio-containment⁵⁾,
autoclavable,
phenol-resistant

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

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

⁷⁾ For centrifugation at high speeds, we recommend to use form-fitting, phenol-resistant adapters 2031.

ROTORS AND ACCESSORIES

Angle rotor, 12-place



∠35°

n = 5,000 min⁻¹
max. RCF 2,879

Cat. No. 1118

Swing-out rotor, 8-place



∠55°
(with carrier 1127)

∠60°
(with carrier 1122)

n = 5,000 min⁻¹
max. RCF 2,999

Cat. No. (without carriers) 1114







Swing-out rotor, 6-place













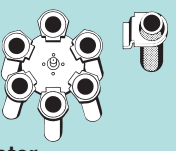
















∠40°

n = 5,000 min⁻¹
max. RCF 2,711

Cat. No. (without carriers) 1115

capacity in ml	5	6	7
∅ x L in mm	12x75	12 x 82	12x100
Cat. No.	0553²⁾	0501²⁾	0578²⁾
 rotor Cat. No. 1118			
Cat. No.	-		
boring ∅ x L in mm	12x66		
tubes per rotor	12		
max. RCF ²⁾	2,879		
radius in mm	103		
run-up in sec	10		
run-down in sec	 13  133		

capacity in ml	5	10	2.6–3.4	2.7–3	4–5.5	1.6–5	4–7
∅ x L in mm	12x75	17x70	13x65	11x66	15x75	13x75	16x75
Cat. No.	0553²⁾	2079	blood collection tubes				
 rotor Cat. No. 1114							
Cat. No.	1127	1122	1127	1122	1127	1122	1122
boring ∅ x L in mm	13.2x53	17.5x53	13.2x53	17.5x53	13.2x53	17.5x53	17.5x53
tubes per rotor	8						
max. RCF ²⁾	2,963	2,991	2,963	2,991	2,963	2,963	2,991
radius in mm	106	107	106	107	106	106	107
run-up in sec	9						
run-down in sec	 14  122						

capacity in ml	5	6	10	15	1.1–1.4	2.6–3.4	2.7–3	4–5.5	4.9	7.5–8.5	9–10	1.6–5	4–7	8.5–10
∅ x L in mm	12x75	12 x 82	17x70	17x100	8x66	13x65	11x66	15x75	13x90	15x92	16x92	13x75	16x75	16x100
Cat. No.	0553²⁾	0501²⁾	2079	0518²⁾	blood collection/urine tubes									
 rotor Cat. No. 1115														
Cat. No.	1054-A	2x0716	-	1054-A	-						1054-A	0716	-	
boring ∅ x L in mm	13.5x60	17.5x79		13.5x60	17.5x79						13.5x60	17.5x79		
tubes per rotor	6													
max. RCF ²⁾	2,068	2,376	2,711	2,068	2,711						2,068	2,543	2,711	
radius in mm	74	85	97	74	97						74	91	97	
run-up in sec	8													
run-down in sec	 12  72													

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.

ROTORS AND ACCESSORIES

Swing-out rotor, 8-place

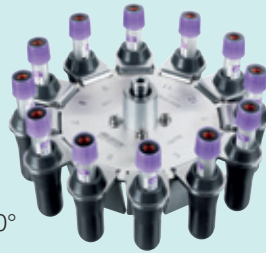


∅ 90°

n = 5,000 min⁻¹
max. RCF 2,879

Cat. No. (without carriers) **1120**

Swing-out rotor, 12-place

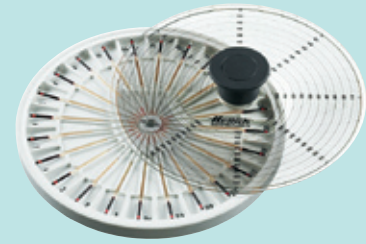


∅ 60°

n = 5,000 min⁻¹
max. RCF 2,963










Cat. No. (without carriers) **1126**

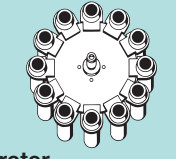




Hematocrit rotor, 24-place

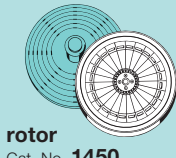



n = 15,000 min⁻¹
max. RCF 21,382

Cat. No. **1450**

capacity in ml	5	6	10	2.6–3.4	2.7–3	4–5.5	1.6–5	4–7
∅ x L in mm	12x75	12x82	17x70	13x65	11x66	15x75	13x75	16x75
Cat. No.	0553²⁾	0501²⁾	2079	blood collection tubes				
 rotor Cat. No. 1120								
Cat. No.	1131	1132	1131	1131	1132	1131	1132	1132
boring ∅ x L in mm	13x53	17.5x53	13x53	17.5x53	13x53	17.5x53	13x53	17.5x53
tubes per rotor	8							
max. RCF ²⁾	2,879							
radius in mm	103							
run-up in sec	8							
run-down in sec	☐ 12 ☐ 86							


capacity in ml	5	2.6–3.4	2.7–3	1.6–5
∅ x L in mm	12x75	13x65	11x66	13x75
Cat. No.	0553²⁾	blood collection tubes		
 rotor Cat. No. 1126				
Cat. No.	1127			
boring ∅ x L in mm	13.2x53			
tubes per rotor	12			
max. RCF ²⁾	2,963			
radius in mm	106			
run-up in sec	10			
run-down in sec	☐ 15 ☐ 165			

standard capillaries, heparinised	basic	mylar-coated	self-sealing and mylar-coated
Cat. No.	2074	1072	1071
lid as evaluation disk incl.  rotor Cat. No. 1450			
Cat. No.	2077		-
boring ∅ x L in mm	-		
capillaries per rotor	24		
max. RCF ²⁾	21,382		
radius in mm	85		
run-up in sec	8		
run-down in sec	☐ 12 ☐ 117		

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

TECHNOLOGY

EBA 21

Small centrifuge, without rotor		
Power supply ^{*)}	220–240 V 1 ~	110–127 V 1 ~
Frequency	50–60 Hz	
Consumption	500 VA	550 VA
Emission	EN 55011 group 1, class B EN 61000-3-2, EN 61000-3-3	FCC class B
Immunity	EN 61000-6-2	-
 Max. capacity	6x50 ml	
Max. RPM (speed)	18,000 min ⁻¹	
Max. RCF	25,718	
Running time	1 sec – 99 min : 59 sec, ∞ continuous run, short cycle mode (impulse key)	
Dimensions (H x W x D)	247 x 275 x 330 mm	
Weight	approx. 11 kg	
Cat. No.	1004	1004-01

^{*)} 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 9001:2008 and ISO 13485:2003 certificates accredited to the company bear witness to the extreme care and responsibility Hettich puts into the manufacturing of centrifuges and their accessories.