

**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 23,907 at a speed of 18,000 min<sup>-1</sup>.

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



EBA 21  
dimensions (H x W x D):  
247 x 275 x 330 mm

**Cat. No. 1004**

## PERFORMANCE

- High RCF
  - up to 3,904 with 50 ml tubes
  - up to 23,907 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

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










EBA 21 control panel (N control panel)

## DISPLAY

- 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).

## 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 mode.  
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.



# Accessories

Angle rotor, 6-place



∠ 35°

n = 6,000 min<sup>-1</sup>  
max. RCF 3,904

**Cat. No. 1116**






















Angle rotor, 12-place






















∠ 35°

n = 6,000 min<sup>-1</sup>  
max. RCF 4,146

**Cat. No. 1416**

capacity in ml	7	15	25	50	9-10	10	15	50	30	50	
∅ x L in mm	12x100	17x100	24x100	34x100	16x92	15x102	17x120	29x115	26x95	29x107	
<b>Cat. No.</b>	<b>0578</b> <sup>1)</sup>	<b>0518</b> <sup>1)</sup>	<b>0519</b> <sup>1)</sup>	<b>0521</b> <sup>1)</sup>	blood collection/ urine tubes		<b>0509</b>	<b>0513</b>	<b>0545</b>	<b>0546</b>	
 <b>rotor</b> Cat. No. <b>1116</b>											
											
<b>Cat. No.</b>	<b>1632</b>	<b>1635</b>	<b>1633</b>	-	<b>1635</b>		<b>1631</b>	<b>1641</b>	<b>1633</b>	<b>1634</b>	
boring ∅ x L in mm	13x92	17.5x95	26x88	35x96	17.5x95		17x98	30x98	26x88	29x95	
tubes per rotor	18	6						3	6		
max. RCF <sup>1)</sup>	3,824	3,703	3,622	3,904	3,703		3,743	3,824	3,622	3,783	
radius in mm	95	92	90	97	92		93	95	90	94	
run-up in sec	23										
run-down in sec	☐ 27    ☐ 624										

capacity in ml	5	15	1.1-1.4	2.6-2.9	2.7-3	4.5-5	4.9	7.5-8.2	9-10	10	1.6-5	4-7	8	8.5-10	15
∅ x L in mm	12x75	17x100	8x66	13x65	11x66	11x92	13x90	15x92	16x92	15x102	13x75	13x100	16x125	16x100	17x120
<b>Cat. No.</b>	<b>0553</b> <sup>1)</sup>	<b>0518</b> <sup>1)</sup>	blood collection/urine tubes												<b>0509</b>
 <b>rotor</b> Cat. No. <b>1416</b>															
															
<b>Cat. No.</b>	<b>1054-A</b>	-	<b>1054-A</b>				-				<b>1054-A</b>	-			
boring ∅ 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 <sup>1)</sup>	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														

<sup>1)</sup> 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 <sup>1)</sup> is 4,000.

### Angle rotor, 12-place

### Angle rotor, 24-place

### Angle rotor, 30-place



↘ 45°

n = 18,000 min<sup>-1</sup>  
max. RCF 23,907

**Cat. No. 1112**



↘ 45°

n = 15,000 min<sup>-1</sup>  
max. RCF 21,885

**Cat. No. 1095**

with bio-containment<sup>2)</sup>



↘ 45°

n = 14,000 min<sup>-1</sup>  
max. RCF 21,255

**Cat. No. 1089**

with bio-containment<sup>2)</sup>

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	
<b>Cat. No.</b>	-			<b>2078</b>	<b>0536</b>	
lid incl.						
<b>rotor</b> Cat. No. <b>1112</b>						
<b>Cat. No.</b>	<b>2024</b>	<b>2023</b>	<b>2031<sup>3)</sup></b>	-		
boring Ø x L in mm	6x40	8x40	10.2x19	11.4x39		
tubes per rotor	12					
max. RCF <sup>1)</sup>	23,907					
radius in mm	66					
run-up in sec	14					
run-down in sec	☐ 18    ☐ 172					

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	
<b>Cat. No.</b>	-			<b>2078</b>	<b>0536</b>	
lid with bio-containment <sup>2)</sup> incl.						
<b>rotor</b> Cat. No. <b>1095</b>						
<b>Cat. No.</b>	<b>2024</b>	<b>2023</b>	<b>2031<sup>3)</sup></b>	-		
boring Ø x L in mm	6x40	8x40	10.2x19	11.2x40.8		
tubes per rotor	24					
max. RCF <sup>1)</sup>	21,885					
radius in mm	87					
run-up in sec	32					
run-down in sec	☐ 32    ☐ 690					

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	
<b>Cat. No.</b>	-			<b>2078</b>	<b>0536</b>	
lid with bio-containment <sup>2)</sup> incl.						
<b>rotor</b> Cat. No. <b>1089</b>						
<b>Cat. No.</b>	<b>2024</b>	<b>2023</b>	<b>2031<sup>3)</sup></b>	-		
boring Ø x L in mm	6x40	8x40	10.2x19	11.2x40.9		
tubes per rotor	30					
max. RCF <sup>1)</sup>	21,255					
radius in mm	97					
run-up in sec	40					
run-down in sec	☐ 40    ☐ 800					

<sup>2)</sup> Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

<sup>3)</sup> For centrifugation at high speeds, we recommend to use form-fitting, phenol-resistant adapters 2031.

# Accessories

## Angle rotor, 12-place



↘35°

n = 5,000 min<sup>-1</sup>  
max. RCF 2,879

**Cat. No. 1118**

## Swing-out rotor, 8-place



↘55°

n = 5,000 min<sup>-1</sup>  
max. RCF 2,999

**Cat. No. (without carriers) 1114**




## Swing-out rotor, 6-place











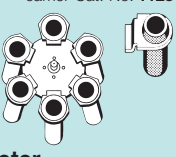













↘40°

n = 5,000 min<sup>-1</sup>  
max. RCF 2,711

**Cat. No. (without carriers) 1115**

capacity in ml	5	7
Ø x L in mm	12x75	12x100
<b>Cat. No.</b>	<b>0553<sup>1)</sup></b>	<b>0578<sup>1)</sup></b>
 <b>rotor</b> Cat. No. <b>1118</b>		
<b>Cat. No.</b>	-	
boring Ø x L in mm	12x66	
tubes per rotor	12	
max. RCF <sup>1)</sup>	2,879	
radius in mm	103	
run-up in sec	10	
run-down in sec	☐ 13    ○ 133	

capacity in ml	5	10	2.6–2.9	2.7–3	4–5.5	1.6–5	4–7
Ø x L in mm	12x75	17x70	13x65	11x66	15x75	13x75	16x75
<b>Cat. No.</b>	<b>0553<sup>1)</sup></b>	<b>2079</b>	<b>blood collection tubes</b>				
 <b>rotor</b> Cat. No. <b>1114</b>							
<b>Cat. No.</b>	<b>1127</b>	<b>1122</b>	<b>1127</b>	<b>1122</b>	<b>1127</b>	<b>1122</b>	<b>1122</b>
boring Ø x L in mm	13.2x53	17.5x53	13.2x53	17.5x53	13.2x53	17.5x53	17.5x53
tubes per rotor	8						
max. RCF <sup>1)</sup>	2,957	2,999	2,957	2,999	2,957	2,999	2,999
radius in mm	106	107	106	107	106	107	107
run-up in sec	9						
run-down in sec	☐ 14    ○ 122						

capacity in ml	5	10	15	1.1–1.4	2.6–2.9	2.7–3	4–5.5	4.9	7.5–8.2	9–10	1.6–5	4–7	8.5–10
Ø x L in mm	12x75	17x70	17x100	8x66	13x65	11x66	15x75	13x90	15x92	16x92	13x75	16x75	16x100
<b>Cat. No.</b>	<b>0553<sup>1)</sup></b>	<b>2079</b>	<b>0518<sup>1)</sup></b>	<b>blood collection/urine tubes</b>									
 <b>rotor</b> Cat. No. <b>1115</b>													
<b>Cat. No.</b>	<b>1054-A</b>	<b>2x0716</b>	-	<b>1054-A</b>				-			<b>1054-A</b>	<b>0716</b>	-
boring Ø x L in mm	13.5x60	17.5x79		13.5x60				17.5x79			13.5x60	17.5x79	
tubes per rotor	6												
max. RCF <sup>1)</sup>	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												

<sup>1)</sup> 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 <sup>1)</sup> is 4,000.

### Swing-out rotor, 8-place



∠90°

n = 5,000 min<sup>-1</sup>  
max. RCF 2,879

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

### Swing-out rotor, 12-place



∠60°

n = 5,000 min<sup>-1</sup>  
max. RCF 2,960










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

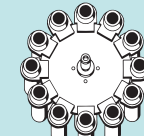




### Hematocrit rotor, 24-place





n = 15,000 min<sup>-1</sup>  
max. RCF 21,382

**Cat. No.** **1450**

capacity in ml	5	6	10	2.6-2.9	2.7-3	4-5.5	1.6-5	4-7
∅ x L in mm	12x75	12x82	17x70	13x65	11x66	15x75	13x75	16x75
<b>Cat. No.</b>	<b>0553<sup>1)</sup></b>	<b>0501<sup>1)</sup></b>	<b>2079</b>	<b>blood collection tubes</b>				
 <b>rotor</b> Cat. No. <b>1120</b>								
<b>Cat. No.</b>	<b>1131</b>	<b>1132</b>	<b>1131</b>	<b>1132</b>	<b>1131</b>	<b>1132</b>	<b>1131</b>	<b>1132</b>
boring ∅ x L in mm	13x53	17.5x53	13x53	17.5x53	13x53	17.5x53	13x53	17.5x53
tubes per rotor	8							
max. RCF <sup>1)</sup>	2,879							
radius in mm	103							
run-up in sec	8							
run-down in sec	☐ 12    ◻ 86							


capacity in ml	5	2.6-2.9	2.7-3	1.6-5
∅ x L in mm	12x75	13x65	11x66	13x75
<b>Cat. No.</b>	<b>0553<sup>1)</sup></b>	<b>blood collection tubes</b>		
 <b>rotor</b> Cat. No. <b>1126</b>				
<b>Cat. No.</b>	<b>1127</b>			
boring ∅ x L in mm	13.2x53			
tubes per rotor	12			
max. RCF <sup>1)</sup>	2,960			
radius in mm	106			
run-up in sec	10			
run-down in sec	☐ 15    ◻ 165			

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

# EBA 21

## TECHNOLOGY

## EBA 21

Small centrifuge, without rotor		
Power supply <sup>*)</sup>	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		
	6 x 50 ml	
Max. RPM (speed)		
	18,000 min <sup>-1</sup>	
Max. RCF		
	23,907	
Running time	1 sec – 99 min : 59 sec, ∞ continuous run, short cycle mode (impulse key)	
Dimensions (HxWxD)		
	247 x 275 x 330 mm	
Weight		
	approx. 11 kg	
<b>Cat. No.</b>	<b>1004</b>	<b>1004-01</b>

<sup>\*)</sup> 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 9001:2000 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.

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National Service: -202  
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