

EBA 280 / 280 S

Small centrifuges

Practical: The rotor can be quickly changed to offer maximum adaptability



EBA 280/280 S



View into the centrifuging chamber
showing the rotor 1146
with blood collection tubes

THESE SMALL CENTRIFUGES OFFER MAXIMUM USER COMFORT

The EBA 280 and EBA 280S offer exceptional user comfort for small centrifuges and a choice between six rotors. Thanks to a newly-developed rapid changeover system it is possible to quickly switch from one rotor to another, without the need to use any tools and with just one hand. The rotor locks automatically in place and sits securely without the need for screws or tightening.

With the 1146 swing-out rotor the EBA 280 achieves an RCF of 3,112 with up to six 15-ml tubes. The higher-performance EBA 280S can achieve a maximum RCF of 5,071 with the same tubes. This corresponds to 6,000 RPM. With run-up and run-down times of 11 resp. 13 seconds, emergency samples can be processed within a few minutes.

Both models are suitable for use in medical diagnostics, environmental analysis and research labs, for example for the sedimentation of cells and yeasts or to clarify water and soil samples.



EBA 280
Small centrifuge

Cat. No. 1101



EBA 280S
Small centrifuge

Cat. No. 1102

EBA 280/280S



COMPREHENSIVE RANGE OF ACCESSORIES

Both the EBA 280 and the EBA 280S can be used with three angle rotors and three swing-out rotors. The swing-out rotors have an integrated base on which they can stand. They can thus be loaded in comfort outside the centrifuge. All of the common blood collection tubes, urine tubes, screw-top tubes and glass tubes up to 50 ml can be used with adapters. Cells may also be washed in the 1133 decanting rotor.

SOPHISTICATED CONTROL SYSTEM

In addition to the innovative rotor changeover system, the EBA 280 and EBA 280S also feature versatile control systems. The systems are programmable, with 10 memory slots. The parameters time, RPM and RCF can easily be entered via arrow keys. A choice of nine resp. ten ramps is available for the run-up and run-down times.



AT A GLANCE



FIELDS OF APPLICATION

- **Medical diagnostics**
Centrifugation of blood and urine samples
- **Environmental analyses**
Clarification of water and soil samples
- **Research**
Sedimentation of cells, yeast cells, bacteria, etc.

EASE OF OPERATION

- Rapid and easy change of rotors through the rapid rotor change system
- Control system with 10 programmable memories
- Swing-out rotors with integrated stand
- Rapid and precise setting of centrifugation time, RPM and RCF via arrow keys
- Entry of run-up and run-down times in ramps of 1 (0) to 9

SAFETY

- Lid locking and holding
- Lid dropping protection
- Imbalance switch-off
- Emergency lid lock release

DESIGN

- Compact design, saving space
- Smooth plastic housing, easy to clean
- Centrifuging chamber of stainless steel
- Metal lid
- Backlit LCD display

MAX. RCF

- 4,146 (EBA 280)
- 5,071 (EBA 280S)

MAX. CAPACITY

- 6 x 50 ml

EBA 280/280S IN ACTION

Scan the QR code or follow this link:
<http://youtu.be/6GSCMYsszs4>



ACCESSORIES



Swing-out rotor, 6-place



±90°
n = 4,700 min⁻¹ / 6,000 min⁻¹
max. RCF 3,112/5,071

Cat. No. (without carriers) 1146

capacity in ml	0.5	1.5	2.0	4	5	6	15	1.1–1.4	2.6–3.4	
Ø x L in mm	10.7 x 36	11 x 38	11 x 38	10 x 88	12 x 75	12 x 82	17 x 100	8 x 66	13 x 65	
Cat. No.	Pediatric	2078	0536	-	0553 ¹⁾	0501 ¹⁾	0518 ¹⁾	blood/urine tubes		
carriers Cat. No. 1147-6 (6 pcs.)										
rotor Cat. No. 1146										
Cat. No.	1063-6 (6 pcs.)			-	1053-6 (6 pcs.)	0767-6 (6 pcs.)	-	1053-6 (6 pcs.)		
boring Ø x L in mm	11 x 35			17.5 x 80	13.5 x 59	17.5 x 80	17.5 x 80	13.5 x 59		
tubes per rotor	6									
max. RCF ¹⁾ EBA 280	1,877	1,902		3,112	2,618	2,865	3,112	2,618		
max. RCF ¹⁾ EBA 280 S	3,059	3,099		5,071	4,266	4,669	5,071	4,266		
radius in mm	76	77		126	106	116	126	106		
run-up in sec	9 (EBA 280) / 11 (EBA 280 S)									
run-down in sec, braked	11 (EBA 280) / 13 (EBA 280 S)									

capacity in ml	2.7–3	4–5.5	4.5–5	4.9	7.5–10	1.6–5	4–7	4–7	8.5–10	12
Ø x L in mm	11 x 66	15 x 75	11 x 92	13 x 90	15/16 x 92	13 x 75	16 x 75	13 x 100	16 x 100	17 x 102
Cat. No.	blood collection/urine tubes									
carriers Cat. No. 1147-6 (6 pcs.)										
rotor Cat. No. 1146										
Cat. No.	1053-6 (6 pcs.)		-		1053-6 (6 pcs.)	0767-6 (6 pcs.)	-			
boring Ø x L in mm	13.5 x 59	17.5 x 80			13.5 x 59	17.5 x 80	17.5 x 80			
tubes per rotor	6									
max. RCF ¹⁾ EBA 280	2,618	3,112			2,618	2,865	3,112			
max. RCF ¹⁾ EBA 280 S	4,266	5,071			4,266	4,669	5,071			
radius in mm	106	126			106	116	126			
run-up in sec	9 (EBA 280) / 11 (EBA 280 S)									
run-down in sec, braked	11 (EBA 280) / 13 (EBA 280 S)									

¹⁾ 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 ¹⁾ is 4,000.

ACCESSORIES



Swing-out rotor, 8-place



$\sphericalangle 90^\circ$
 $n = 5,000 \text{ min}^{-1}$
 max. RCF 2,991

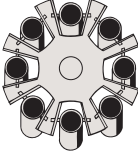











Cat. No. (without carriers) 1148

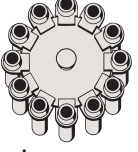





Swing-out rotor, 12-place



$\sphericalangle 60^\circ$
 $n = 5,000 \text{ RPM}$
 max. RCF 2,963

Cat. No. (without carriers) 1142

capacity in ml	5	6	2.6–3.4	2.7–3	4–5.5	1.6–5	4–7
Ø x L in mm	12x75	12x82	13x65	11x66	15x75	13x75	16x75
Cat. No.	0553¹⁾	0501¹⁾	blood collection/urine tubes				
 rotor Cat. No. 1148							
							
Cat. No.	1131-A				1132-A	1131-A	1132-A
boring Ø x L in mm	13x53				17.5x53	13x53	17.5x53
tubes per rotor	8						
max. RCF ¹⁾	2,991						
radius in mm	107						
run-up in sec	8						
run-down in sec, braked	10						

capacity in ml	5	2,6–3,4	2,7–3	1,6–5
Ø x L in mm	12x75	13x65	11x66	13x75
Cat. No.	0553¹⁾	blood collection/urine tubes		
 rotor Cat. No. 1142				
				
Cat. No.	1127-A			
boring Ø x L in mm	13.2x53			
tubes per rotor	12			
max. RCF ¹⁾	2.963			
radius in mm	106			
run-up in sec	10			
run-down in sec, braked	12			

ACCESSORIES



Angle rotor, 12-place, for decanting



∠35°
n = 5,000 min⁻¹
max. RCF 2,879

Cat. No. 1133

Angle rotor, 6-place



∠35°
n = 6,000 min⁻¹
max. RCF 4,025

Cat. No. 1137

capacity in ml	5	6	7
∅ x L in mm	12x75	12x82	12x100
Cat. No.	0553 ¹⁾	0501 ¹⁾	0578 ¹⁾



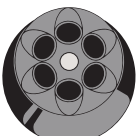























rotor
Cat. No. 1133

Cat. No.	-
boring ∅ x L in mm	12.5 x 66
tubes per rotor	12
max. RCF ¹⁾	2,879
radius in mm	103
run-up in sec	8
run-down in sec, braked	10

Rotor 1133

What makes the 1133 rotor special is its adapters with a decanting aid. The decanting aid firmly holds the tube and keeps it from falling out when the supernatant is decanted.

The 1133 rotor is often used for manual washing of erythrocytes in blood group serology.

capacity in ml	7	15	25	50	9–10	10	1.6–5	4–7	15	50	30	50
∅ x L in mm	12x100	17x100	24x100	34x100	16x92	15x102	13x75	13x100	17x120	29x115	26x95	29x107
Cat. No.	0578 ¹⁾	0518 ¹⁾	0519 ¹⁾	0521 ¹⁾	blood collection / urine tubes				0509	0513	0545	0546
												
rotor Cat. No. 1137				-								
Cat. No.	1632	1635	1633	-	1635				1631	1641	1633	1634
boring ∅ 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 ¹⁾	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	20											
run-down in sec, braked	17											

¹⁾ 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 ¹⁾ is 4,000.

ACCESSORIES

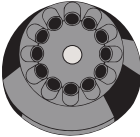















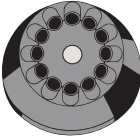











Angle rotor, 12-place



$\angle 35^\circ$
 $n = 6,000 \text{ min}^{-1}$
 max. RCF 4,146

Cat. No. 1139

capacity in ml	0.5	1.5	2.0	5	6	15	1.1–1.4	2.6–3.4	2.7–3	4.5–5
Ø x L in mm	10.7x36	11x38	11x38	12x75	12x82	17x100	8x66	13x65	11x66	11x92
Cat. No.	Pediatric	2078	0536	0553¹⁾	0501¹⁾	0518¹⁾	blood collection/urine tubes			
 rotor Cat. No. 1139										
										
Cat. No.	1063-6 (6 pcs.)			1054-A	-	1054-A	-			
boring Ø x L in mm	11 x 35			13.5 x 60	17.7 x 88	13.5 x 60	17.7 x 88			
tubes per rotor	12			12	12	12	12			
max. RCF ¹⁾	2,777	2,737	3,300		4,146	3,300	4,146			
radius in mm	69	68	82		103	82	103			
run-up in sec	16									
run-down in sec, braked	16									

capacity in ml	4.9	7.5–10	10	1.6–5	4–7	8	8.5–10	12	15	
Ø x L in mm	13x90	15/16x92	15x102	13x75	13x100	16x125	16x100	17x102	17x120	
Cat. No.	blood collection/urine tubes								0509	
 rotor Cat. No. 1139										
										
Cat. No.	-			1054-A	1058	-				
boring Ø x L in mm	17.7 x 88			13.5 x 60	13.5 x 79	17.7 x 88				
tubes per rotor	12	12		12	6	12	6	6		
max. RCF ¹⁾	4,146			3,300	4,146					
radius in mm	103			82	103					
run-up in sec	16									
run-down in sec, braked	16									

TECHNICAL DATA



TECHNOLOGY	EBA 280		EBA 280 S	
Small centrifuge, without rotor				
Power supply ¹⁾	200–240 V 1 ~	100–127 V 1 ~	200–240 V 1 ~	100–127 V 1 ~
Frequency	50–60 Hz	50–60 Hz	50–60 Hz	50–60 Hz
Consumption	185 VA	185 VA	330 VA	330 VA
Emission, Immunity	EN/IEC 61326-1, class B	FCC class B	EN/IEC 61326-1, class B	FCC class B
Max. capacity	6 x 50 ml	6 x 50 ml	6 x 50 ml	6 x 50 ml
Max. RPM (speed)	6,000 min ⁻¹	6,000 min ⁻¹	6,000 min ⁻¹	6,000 min ⁻¹
Max. RCF	4,146	4,146	5,071	5,071
Running time	1 s–99 min :59 s, ∞ continuous run, short cycle mode (impulse key)			
Dimensions (HxWxD)	242 x 326 x 400 mm	242 x 326 x 400 mm	242 x 326 x 400 mm	242 x 326 x 400 mm
Weight	approx. 12 kg	approx. 12 kg	approx. 12 kg	approx. 12 kg
Cat. No.	1101	1101-01	1102	1102-01

¹⁾ 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.



Our certification as an “Authorized Economic Operator” enables accelerated customs clearance.



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