Hettich
ZENTRIFUGEN

EBA 280 / 280 S
Small centrifuges

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

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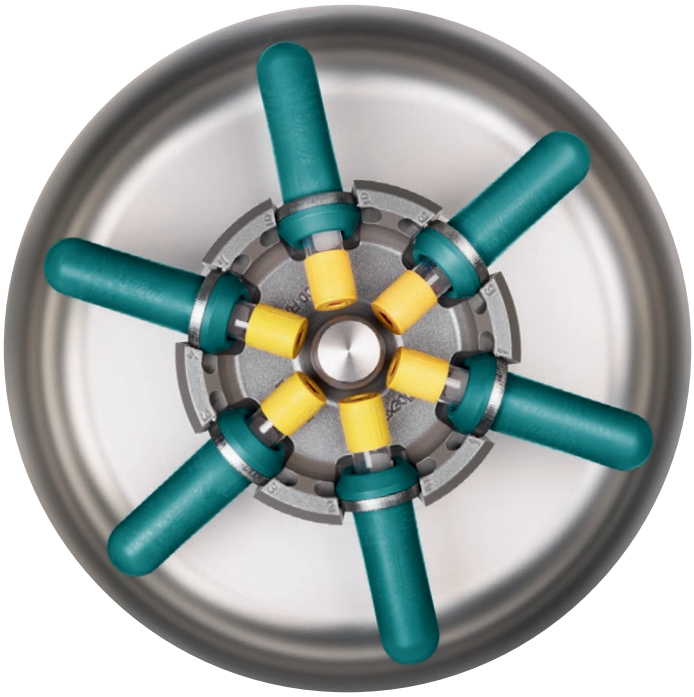
EBA 280 / 280 S



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 280 S 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 280 S 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 280 S
Small centrifuge

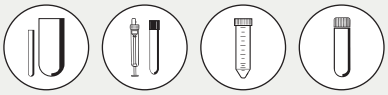
Cat. No. 1102

EBA 280 / 280 S

COMPREHENSIVE RANGE OF ACCESSORIES
Both the EBA 280 and the EBA 280 S 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 280 S 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 280 S)

MAX. CAPACITY

- 6 x 50 ml

OUR SERVICE
You will find information on Hettich partners in your country at www.hettichlab.com

ACCESSORIES

Swing-out rotor, 6-place

∢90°
n = 4,700 min^{-1} / 6,000 min^{-1}
max. RCF 3,112 / 5,071

Cat. No. 1146

capacity in ml	0.5	4	5	6	15	1.1–1.4	2.6–3.4	2.7–3	4–5.5	4.5–5
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	15 x 75	11 x 92
Cat. No.	**Pediatric**	**-**	**0553** [1]	**0501** [1]	**0518** [1]	**blood collection / urine tubes**				
carrier Cat. No. 1147										
rotor Cat. No. 1146										
Cat. No.	**1063**	**-**	**1053**	**0767**	**-**	**1053**			**-**	
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			17.5 x 80	
tubes per rotor	6									
max. RCF [1] EBA 280	1,877	3,112	2,618	2,865	3,112	2,618			3,112	
max. RCF [1] EBA 280 S	3,059	5,071	4,266	4,669	5,071	4,266			5,071	
radius in mm	76	126	106	116	126	106			126	
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	4.9	7.5–10	1.6–5	4–7	4–7	8.5–10	12
Ø x L in mm	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**						
carrier Cat. No. 1147							
rotor Cat. No. 1146							
Cat. No.	**-**		**1053**	**0767**	**-**		
boring Ø x L in mm	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	3,112		2,618	2,865	3,112		
max. RCF [1] EBA 280 S	5,071		4,266	4,669	5,071		
radius in mm	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)						

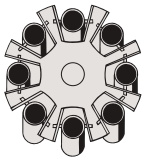
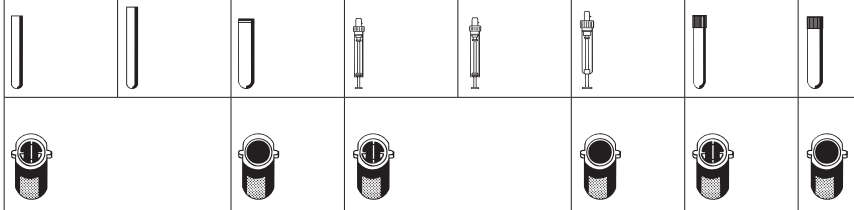
[1] Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote [1] is 4,000.

ACCESSORIES

Swing-out rotor, 8-place

∢90°
n = 5,000 min^{-1}
max. RCF 2,991

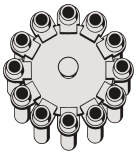
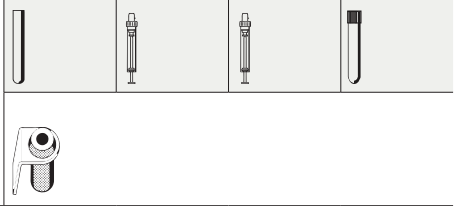
Cat. No. (without carriers) **1148**

capacity in ml	5	6	10	2.6–3.4	2.7–3	4–5.5	1.6–5	4–7
Ø x L in mm	12x75	12x82	17x70	13x65	11x66	15x75	13x75	16x75
Cat. No.	**0553** [1]	**0501** [1]	**2079**	**blood collection / urine tubes**				
 **rotor Cat. No. 1148**								
Cat. No.	**1131-A**		**1132-A**	**1131-A**		**1132-A**	**1131-A**	**1132-A**
boring Ø x L in mm	13x53		17.5x53	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							

Swing-out rotor, 12-place

∢60°
n = 5,000 RPM
max. RCF 2,963

Cat. No. (without carriers) **1142**

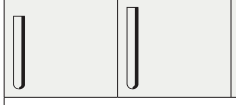
capacity in ml	5	2,6–3,4	2,7–3	1,6–5
Ø x L in mm	12x75	13x65	11x66	13x75
Cat. No.	**0553** [1]	**blood collection / urine tubes**		
 **rotor Cat. No. 1142**				
Cat. No.	**1127-A**			
boring Ø x L in mm	13.2x53			
tubes per rotor	12			
max. RCF [1]	2.963			
radius in mm	106			
run-up in sec	10			
run-down in sec. braked	12			

ACCESSORIES

Angle rotor, 12-place

∢35°
n = 5,000 min^{-1}
max. RCF 2,879

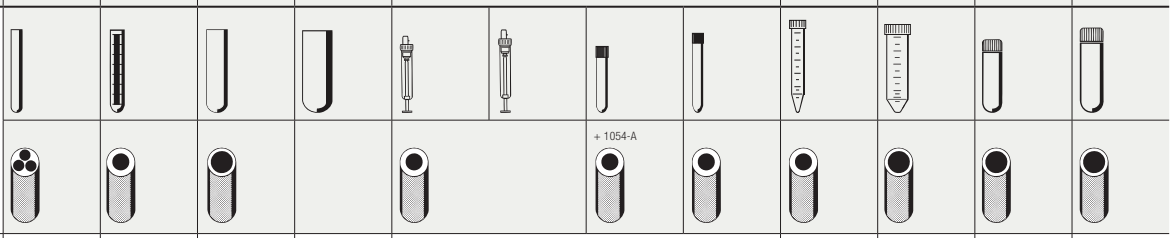
Cat. No. 1133

capacity in ml	5	6	7
Ø x L in mm	12x75	12x82	12x100
Cat. No.	**0553** [1]	**0501** [1]	**0578** [1]
 **rotor Cat. No. 1133**			
Cat. No.	**-**		
boring Ø x L in mm	12.5x66		
tubes per rotor	12		
max. RCF [1]	2,879		
radius in mm	103		
run-up in sec	8		
run-down in sec, braked	10		

Angle rotor, 6-place

∢35°
n = 6,000 min^{-1}
max. RCF 4,025

Cat. No. 1137

capacity in ml	7	15	25	50	9–10	10	1.6–5	4–7	15	50	30	50
Ø 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 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 [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											

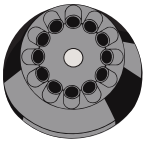
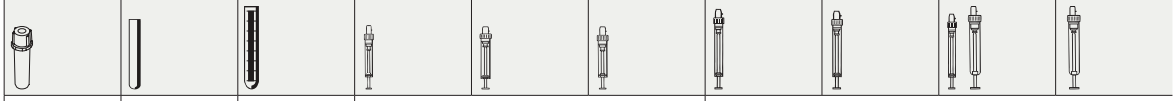
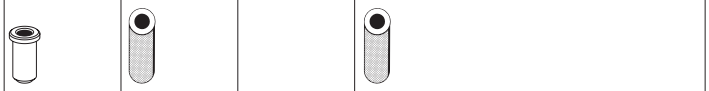
[1] Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote [1] is 4,000.

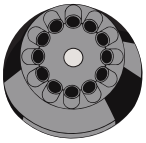
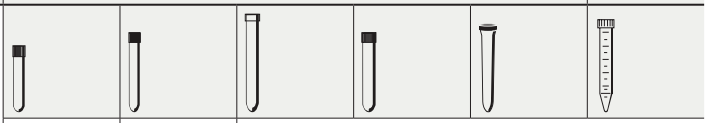
ACCESSORIES

Angle rotor, 12-place

∢35°
n = 6,000 min^{-1}
max. RCF 4,146

Cat. No. 1139

capacity in ml	0.5	5	15	1.1–1.4	2.6–3.4	2.7–3	4.5–5	4.9	7.5–10	10
Ø x L in mm	10.7x36	12x75	17x100	8x66	13x65	11x66	11x92	13x90	15/16x92	15x102
Cat. No.	**Pediatric**	**0553** [1]	**0518** [1]	**blood collection/urine tubes**						
 **rotor Cat. No. 1139**	 									
Cat. No.	**1063**	**1054-A**	**-**	**1054-A**			**-**			
boring Ø x L in mm	11x35	13.5x60	17.7x88	13.5x60			17.7x88			
tubes per rotor	12	12	12	12			12			
max. RCF [1]	2,777	3,300	4,146	3,300			4,146			
radius in mm	69	82	103	82			103			
run-up in sec	16									
run-down in sec, braked	16									

capacity in ml	1.6–5	4–7	8	8.5–10	12	15
Ø x L in mm	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	13.5x60	13.5x79	17.7x88			
tubes per rotor	12	12	6	12	6	6
max. RCF [1]	3,300	4,146				
radius in mm	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 *)	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 (H x W x D)	242 x 326 x 389 mm	242 x 326 x 389 mm	242 x 326 x 389 mm	242 x 326 x 389 mm
Weight	approx. 11 kg	approx. 11 kg	approx. 11 kg	approx. 11 kg
Cat. No.	**1101**	**1101-01**	**1102**	**1102-01**

*) 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.

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

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LAB TECHNOLOGY