

## SMALL CENTRIFUGES

# EBA 280 | 280 S

## SIMPLE ROTOR CHANGE FOR GREATER VERSATILITY

The EBA 280 and EBA 280 S offer exceptional user comfort and a choice of 6 rotors. The rotor can be removed and replaced easily thanks to the quick release system. The rotor locks in place and remains secure without the use of tools or extra effort. The backlit digital control panel offers the opportunity to save multiple program settings.



## HIGHLIGHTS

- RPM: 200 - 6,000 min<sup>-1</sup>  
Adjustable in increments of 10
- max. RCF: 4,146 | 5,071
- max. capacity: 6 x 50 ml
- small centrifuge with rapid rotor change system
- Choice of 6 rotors
- IVD-conform according to directive 98/79/EC
- maximum noise level of ≤ 51 dB(A) | ≤ 56 dB(A)
- impulse key for short cycle mode
- 9 individual acceleration and deceleration stages
- easy operation with keypad
- 9 programmable memory settings

## FEATURES

- plastic housing
- metal lid
- viewing port in the lid
- one-hand lid lock
- lid dropping protection
- emergency lid lock release
- stainless steel chamber
- automatic rotor recognition
- brushless drive
- error display
- imbalance monitoring and switch-off
- backlit panel with actual values of all parameters
- 3 adjustable messages after completion of the centrifugation run (audio + visual)



## TECHNICAL DATA

	EBA 280	EBA 280 S
voltage *)	200 – 240 V 1 ~	200 – 240 V 1 ~
frequency	50 – 60 Hz	50 – 60 Hz
consumption	185 VA	330 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	6x50 ml	6x50 ml
max. RPM	6,000 min <sup>-1</sup>	6,000 min <sup>-1</sup>
max. RCF	4,146	5,071
running time	1 – 99 min: 59 sec, y continuous run, short cycle mode (impulse button)	1 – 99 min: 59 sec, y continuous run, short cycle mode (impulse button)
dimensions (WxDxH)	326x400x242 mm	326x400x242 mm
weight	approx. 12 kg	approx. 12 kg
max. noise level	≤ 51 dB (A)	≤ 56 dB (A)
<b>Cat. No.</b>	<b>1101</b>	<b>1102</b>
100 – 127 V 1 ~ / 50–60 Hz	1101-01	1102-01
emission, immunity	FCC class B	FCC class B




\*) Other voltages on request.

## AVAILABLE ROTORS

### SWING-OUT ROTORS

	angle	max. RPM	max. capacity	Cat. No.	page
 swing-out rotor, 6-place	90°	6,000 min <sup>-1</sup>	6 x 15 ml	<b>1146</b>	3
 swing-out rotor, 8-place	90°	5,000 min <sup>-1</sup>	8 x 7 ml	<b>1148</b>	4
 swing-out rotor, 12-place	60°	5,000 min <sup>-1</sup>	12 x 5 ml	<b>1142</b>	4

### ANGLE ROTORS

 angle rotor, 6-place	35°	6,000 min <sup>-1</sup>	6 x 50 ml	<b>1137</b>	5
 angle rotor, 12-place	35°	5,000 min <sup>-1</sup>	12 x 7 ml	<b>1133</b>	5
 angle rotor, 12-place	35°	6,000 min <sup>-1</sup>	12 x 15 ml	<b>1139</b>	6

## SWING-OUT ROTOR, 6-PLACE | 1146



<b>Rotor</b>	
max. RPM	EBA 280   EBA 280 S 4,700 min <sup>-1</sup>   6,000 min <sup>-1</sup>
max. RCF	3,112   5,071
max. capacity	6 x 15 ml
run up / run down, braked in sec	9 / 11   11 / 13
angle   max. noise level	90°   49 dB (A)
<b>Cat. No.</b>	<b>1146</b>

<b>Bucket</b>	
<b>Cat. No.</b>	<b>1147-6 (6 pcs.)</b>



<b>Vessels</b>															
capacity in ml	0.5	1.5	2	4	5	6	15	1.1-1.4	2.6-3.4	2.7-3	4-5.5	4.5-5	4.9	7.5-10	1.6-5
Ø x L in mm	10.7x36	11 x 38	11 x 38	10x88	12x75	12x82	17x100	8x66	13x65	11x66	15x75	11x92	13x90	15/16x92	13x75
max. RCF <sup>2)</sup>	EBA 280 1,877	1,902	1,902	3,112	2,618	2,865	3,112	2,618	2,618	2,618	3,112	3,112	3,112	3,112	2,618
max. RCF <sup>2)</sup>	EBA 280 S 3,059	3,099	3,099	5,071	4,266	4,669	5,071	4,266	4,266	4,266	5,071	5,071	5,071	5,071	4,266
radius in mm	76	77	77	126	106	116	126	106	106	106	126	126	126	126	106
<b>Cat. No.</b>	<b>Pediatric</b>	<b>microliter tubes</b>		<b>tubes<sup>2)</sup></b>				<b>blood collection / urine tubes</b>							

<b>Adapter</b>															
boring Ø x L in mm	11 x 35	11 x 35	11 x 35	17.5x80	13.5x59	17.5x80	17.5x80	13.5x59	13.5x59	13.5x59	17.5x80	17.5x80	17.5x80	17.5x80	13.5x59
vessels per rotor	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
<b>Cat. No.</b>	<b>1063-8 (6 pcs.)</b>			-	<b>1053-6</b>	<b>0767-6</b>	-	<b>1053-6 (6 pcs.)</b>			-	-	-	-	<b>1053-6</b>

<b>Vessels</b>				
capacity in ml	4-7	4-7	8.5-5	12
Ø x L in mm	16x75	13x100	16 x 100	17x102
max. RCF <sup>2)</sup>	EBA 280 2,865	3,112	3,112	3,112
max. RCF <sup>2)</sup>	EBA 280 S 4,669	5,071	5,071	5,071
radius in mm	116	126	126	126
<b>Cat. No.</b>	<b>blood collection/urine tubes</b>			

<b>Adapter</b>				
boring Ø x L in mm	17.5x80	17.5x80	17.5x80	17.5x80
vessels per rotor	6	6	6	6
<b>Cat. No.</b>	<b>0767-6</b>	-	-	-

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.

## — SWING-OUT ROTOR, 8-PLACE | 1148



### Rotor

max. RPM   max. RCF	5,000 min <sup>-1</sup>   2,991
max. capacity	8 x 7 ml
run up   run down, braked in sec	8   10
angle   max. noise level	90°   50 dB (A)
<b>Cat. No.</b>	<b>1148</b>



### Vessels

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	12 x 75	12 x 82	13 x 65	11 x 66	15 x 75	13 x 75	16 x 75
max. RCF <sup>2)</sup>	2,991	2,991	2,991	2,991	2,991	2,991	2,991
radius in mm	107	107	107	107	107	107	107
<b>Cat. No.</b>	<b>tubes<sup>2)</sup></b>		<b>blood collection / urine tubes</b>				



### Bucket

boring Ø x L in mm	13 x 53	13 x 53	13 x 53	13 x 53	17.5 x 53	13 x 53	17.5 x 53
vessels per rotor	8	8	8	8	8	8	8
<b>Cat. No.</b>	<b>1131-A</b>	<b>1131-A</b>	<b>1131-A</b>	<b>1131-A</b>	<b>1132-A</b>	<b>1131-A</b>	<b>1132-A</b>

## — SWING-OUT ROTOR, 12-PLACE | 1142



### Rotor

max. RPM   max. RCF	5,000 min <sup>-1</sup>   2,963
max. capacity	12 x 5 ml
run up   run down, braked in sec	10   12
angle   max. noise level	60°   49 dB (A)
<b>Cat. No.</b>	<b>1142</b>



### Vessels

capacity in ml	5	2.6–3.4	2.7–3	1.6–5
Ø x L in mm	12 x 75	13 x 65	11 x 66	13 x 75
max. RCF <sup>2)</sup>	2,963	2,963	2,963	2,963
radius in mm	106	106	106	106
<b>Cat. No.</b>	<b>tube<sup>2)</sup></b>	<b>blood collection / urine tubes</b>		



### Bucket

boring Ø x L in mm	13.2 x 53	13.2 x 53	13.2 x 53	13.2 x 53
vessels per rotor	12	12	12	12
<b>Cat. No.</b>	<b>1127-A</b>	<b>1127-A</b>	<b>1127-A</b>	<b>1127-A</b>

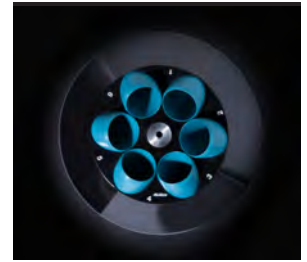
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

## — ANGLE ROTOR, 6-PLACE | 1137



### Rotor

max. RPM   max. RCF	6,000 min <sup>-1</sup>   4,025
max. capacity	6 x 50 ml
run up   run down, braked in sec	20   17
angle   max. noise level	35°   47 dB (A)
<b>Cat. No.</b>	<b>1137</b>



### Vessels

capacity in ml	7	15	25	50	9-10	10	1.6-5	4-7	15	50	30	50
Ø x L in mm	12 x 100	17 x 100	24 x 100	34 x 100	16 x 92	15 x 102	13 x 75	13 x 100	17 x 120	29 x 115	26 x 95	29 x 107
max. RCF <sup>2)</sup>	3,944	3,783	3,703	4,025	3,783	3,783	2,978	3,783	3,824	3,824	3,703	3,904
radius in mm	98	94	92	100	94	94	74	94	95	95	92	97
<b>Cat. No.</b>	tubes <sup>2)</sup>			blood collection / urine tubes				tubes with screw cap				



### Adapter

boring Ø x L in mm	13 x 92	17.5 x 95	26 x 88	35 x 96	17.5 x 95	17.5 x 95	17.5 x 95	17.5 x 95	17 x 98	30 x 98	26 x 88	29 x 95
vessels per rotor	18	6	6	6	6	6	6	6	6	3	6	6
<b>Cat. No.</b>	<b>1632</b>	<b>1635</b>	<b>1633</b>	-	<b>1635</b>	<b>1635</b>	<b>1635</b>	<b>1635</b>	<b>1631</b>	<b>1641</b>	<b>1633</b>	<b>1634</b>

## — ANGLE ROTOR, 12-PLACE | 1133



### Rotor

max. RPM   max. RCF	5,000 min <sup>-1</sup>   2,879
max. capacity	12 x 7 ml
run up   run down, braked in sec	8   10
angle   max. noise level	35°   51 dB (A)
<b>Cat. No.</b>	<b>1133</b>



### Vessels

capacity in ml	5	6	7
Ø x L in mm	12 x 75	12 x 82	12 x 100
max. RCF <sup>2)</sup>	2,879	2,879	2,879
radius in mm	103	103	103
<b>Cat. No.</b>	tubes <sup>2)</sup>		



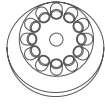
### Adapter

boring Ø x L in mm	12.5 x 66	12.5 x 66	12.5 x 66
vessels per rotor	12	12	12
<b>Cat. No.</b>	-	-	-

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 in blood typing serology.

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.

## — ANGLE ROTOR, 12-PLACE | 1139



### Rotor

max. RPM   max. RCF	6,000 min <sup>-1</sup>   4,146
max. capacity	12 x 15 ml
run up   run down, braked in sec	16   16
angle   max. noise level	35°   50 dB (A)
<b>Cat. No.</b>	<b>1139</b>



### Vessels

capacity in ml	0.5	1.5	2	5	6	15	1.1-1.4	2.6-3.4	2.7-3	4.5-5	4.9	7.5-10	10	1.6-5	4-7
Ø x L in mm	10.7 x 36	11 x 38	11 x 38	12 x 75	12 x 82	17 x 100	8 x 66	13 x 65	11 x 66	11 x 92	13 x 90	15/16 x 92	15 x 102	13 x 75	13 x 100
max. RCF <sup>2)</sup>	2,777	2,737	2,737	3,300	3,300	4,146	3,300	3,300	3,300	4,146	4,146	4,146	4,146	3,300	4,146
radius in mm	69	68	68	82	82	103	82	82	82	103	103	103	103	82	103
<b>Cat. No.</b>	<b>Pediatric</b>	<b>microliter tubes</b>	<b>tubes<sup>2)</sup></b>	<b>blood collection / urine tubes</b>											



### Adapter

boring Ø x L in mm	11 x 35	11 x 35	11 x 35	13.5 x 60	13.5 x 60	17.7 x 88	13.5 x 60	13.5 x 60	13.5 x 60	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88	13.5 x 60	13.5 x 79
vessels per rotor	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
<b>Cat. No.</b>	<b>1063-6 (6 pcs.)</b>	<b>1054-A</b>	<b>1054-A</b>	<b>-</b>	<b>1054-A</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1054-A</b>	<b>1058</b>

### Vessels

capacity in ml	8	8.5-10	12	5	15
Ø x L in mm	16 x 125	16 x 100	17 x 102	17 x 59	17 x 120
max. RCF <sup>2)</sup>	4,146	4,146	4,146	3,180	4,146
radius in mm	103	103	103	79	103
<b>Cat. No.</b>	<b>blood collection / urine tubes</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>



### Adapter

boring Ø x L in mm	17.7 x 88
vessels per rotor	6
<b>Cat. No.</b>	<b>1064</b>

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.

CERTIFICATES / REGISTRATIONS



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DIMENSIONS

