

## 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
- IVDR-conform according to regulation (EU) 2017/746
- 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      | 6 x 50 ml   | 6 x 50 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) | 326 x 400 x 242 mm  | 326 x 400 x 242 mm  |
| weight             | approx. 12 kg   | approx. 12 kg   |
| noise level        | ≤ 47 dB (A) with rotor 1137   | ≤ 50 dB (A) with rotor 1137   |
| <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 10 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>                     |                     | + | <b>Bucket</b>   |                        |
|----------------------------------|---------------------|---|-----------------|------------------------|
| max. RPM                         | EBA 280   EBA 280 S |   | <b>Cat. No.</b> | <b>1147-6 (6 pcs.)</b> |
| max. RCF                         |                     |   |                 |                        |
| max. capacity                    |                     |   |                 |                        |
| run up / run down, braked in sec |                     |   |                 |                        |
| angle   max. noise level         |                     |   |                 |                        |
| <b>Cat. No.</b>                  | <b>1146</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            | 10.7x46   | 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   | 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   | 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>1063-6 (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   | 8.5-10  | 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   |
| max. RCF <sup>2)</sup> | EBA 280 S   | 4,669   | 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   | 13.5x79   | 17.5x80   | 17.5x80   |
| vessels per rotor  | 6   | 6   | 6   | 6   |
| <b>Cat. No.</b>    | <b>0767-6</b>   | <b>1058</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 10 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       | 10      | 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 | 17 x 70 | 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   | 2,991   |
| radius in mm           | 107                       | 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       | 17.5 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             | 8             |
| <b>Cat. No.</b>    | <b>1131-A</b> | <b>1131-A</b> | <b>1132-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            | 13 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

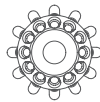
|                        |                     |          |          |                                |         |          |         |                      |          |          |         |          |
|------------------------|---------------------|----------|----------|--------------------------------|---------|----------|---------|----------------------|----------|----------|---------|----------|
|                        |                     |          |          |                                |         |          |         |                      |          |          |         |          |
| 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

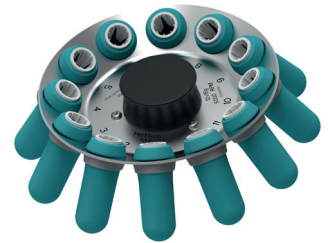
|                    |             |             |             |         |             |             |             |             |             |             |             |             |
|--------------------|-------------|-------------|-------------|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                    |             |             |             |         |             |             |             |             |             |             |             |             |
| 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> |         |          |



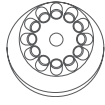
### Adapter

|                    |           |           |           |
|--------------------|-----------|-----------|-----------|
|                    |           |           |           |
| 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       | 4       | 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   |  |
| Ø x L in mm            | 10.7 x 46        | 11 x 38                 | 11 x 38 | 10 x 88 | 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 |  |
| max. RCF <sup>2)</sup> | 2,777            | 2,737                   | 2,737   | 3,300   | 3,300                     | 3,300   | 4,146    | 3,300                                 | 3,300   | 3,300   | 4,146   | 4,146   | 4,146      | 4,146    | 3,300   |  |
| radius in mm           | 69               | 68                      | 68      | 82      | 82                        | 82      | 103      | 82                                    | 82      | 82      | 103     | 103     | 103        | 103      | 82      |  |
| <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 | 11,5 x 67,5 | 13,5 x 60     | 13,5 x 60     | 17,7 x 88 | 13,5 x 60     | 13,5 x 60     | 13,5 x 60     | 13,5 x 60     | 13,5 x 60     | 13,5 x 60     | 17,7 x 88 | 17,7 x 88 | 13,5 x 60     |
| vessels per rotor  | 12                     | 12      | 12      | 12          | 12            | 12            | 12        | 12            | 12            | 12            | 12            | 12            | 12            | 12        | 12        | 12            |
| <b>Cat. No.</b>    | <b>1063-6 (6 uds.)</b> |         |         | <b>6305</b> | <b>1054-A</b> | <b>1054-A</b> | <b>-</b>  | <b>1054-A</b> | <b>1054-A</b> | <b>1054-A</b> | <b>1054-A</b> | <b>1054-A</b> | <b>1054-A</b> | <b>-</b>  | <b>-</b>  | <b>1054-A</b> |

### Vessels

|                        |                                       |          |          |          |          |
|------------------------|---------------------------------------|----------|----------|----------|----------|
|                        |                                       |          |          |          |          |
| capacity in ml         | 4-7                                   | 8        | 8.5-10   | 12       | 15       |
| Ø x L in mm            | 13 x 100                              | 16 x 125 | 16 x 100 | 17 x 102 | 17 x 120 |
| max. RCF <sup>2)</sup> | 4,146                                 | 4,146    | 4,146    | 4,146    | 4,146    |
| radius in mm           | 103                                   | 103      | 103      | 103      | 103      |
| <b>Cat. No.</b>        | <b>blood collection / urine tubes</b> |          |          |          | <b>-</b> |



### Adapter

|                    |             |           |           |               |           |
|--------------------|-------------|-----------|-----------|---------------|-----------|
|                    |             |           |           |               |           |
| boring Ø x L in mm | 13.5 x 79   | 17.7 x 88 | 17.7 x 88 | 13.5 x 60     | 17.7 x 88 |
| vessels per rotor  | 12          | 6         | 12        | 12            | 6         |
| <b>Cat. No.</b>    | <b>1058</b> | <b>-</b>  | <b>-</b>  | <b>1054-A</b> | <b>-</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.

## CERTIFICATIONS / REGISTRATIONS

Product certification:



Product registration:



Company certifications:



## DIMENSIONS – EBA 280 | 280 S

