

## Swing-out rotor, 4-place

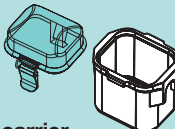
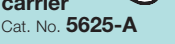


✂ 90°

$n = 4,600 \text{ min}^{-1}$   
max. RCF 5,063

illustrated with carriers 5625-A  
and lids 5627  
with bio-containment<sup>5)</sup>

**Cat. No.** (without carriers) **5699**

|                                                                                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
| capacity in ml                                                                                                                               | 1.5                                                                               | 2.0                                                                               | 3                                                                                 | 4                                                                                 | 4                                                                                 | 5                                                                                 | 6                                                                                  | 7                                                                                   | 10                                                                                  | 15                                                                                  | 25                                                                                  | 50                                                                                  | 75                                                                                  | 94                                                                                  |                                                                                     |  |
| Ø x L in mm                                                                                                                                  | 11x38                                                                             |                                                                                   | 10x60                                                                             | 10x88                                                                             | 12x60                                                                             | 12x75                                                                             | 12x82                                                                              | 12x100                                                                              | 17x70                                                                               | 17x100                                                                              | 24x100                                                                              | 34x100                                                                              | 35x105                                                                              | 38x102                                                                              |                                                                                     |  |
| Cat. No.                                                                                                                                     | 2078                                                                              | 0536                                                                              | -                                                                                 |                                                                                   |                                                                                   | 0553 <sup>2)</sup>                                                                | 0501 <sup>2)</sup>                                                                 | 0578 <sup>2)</sup>                                                                  | 2079                                                                                | 0518 <sup>2)</sup>                                                                  | 0519 <sup>2)</sup>                                                                  | 0521 <sup>2)</sup>                                                                  | 0548                                                                                | 0549                                                                                |                                                                                     |  |
| lid with bio-containment <sup>5)</sup><br>Cat. No. 5627<br> |  |  |  |  |  |  |   |    |    |   |  |  |  |  |                                                                                     |  |
|                                                                                                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cat. No.                                                                                                                                     | 4730                                                                              |                                                                                   |                                                                                   |                                                                                   | 4732                                                                              |                                                                                   |                                                                                    |                                                                                     | 4733                                                                                |                                                                                     | 4734                                                                                | 4735                                                                                | 4736                                                                                |                                                                                     |                                                                                     |  |
| boring Ø x L in mm                                                                                                                           | 11x84                                                                             |                                                                                   |                                                                                   |                                                                                   | 13.5x84                                                                           |                                                                                   |                                                                                    |                                                                                     | 17.5x84                                                                             |                                                                                     | 26.5x84                                                                             |                                                                                     | 36x80                                                                               |                                                                                     | 42x80                                                                               |  |
| tubes per rotor                                                                                                                              | 224                                                                               |                                                                                   | 120                                                                               |                                                                                   | 80                                                                                |                                                                                   |                                                                                    |                                                                                     | 68                                                                                  |                                                                                     | 24                                                                                  | 12                                                                                  |                                                                                     |                                                                                     |                                                                                     |  |
| max. RCF <sup>2)</sup> upper/lower                                                                                                           | 3,572/4,637                                                                       |                                                                                   | 4,637                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 4,495                                                                               |  |
| radius in mm upper/lower                                                                                                                     | 151/196                                                                           |                                                                                   | 196                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 190                                                                                 |  |
| run-up in sec                                                                                                                                | 90                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
| run-down in sec, braked                                                                                                                      | 95                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |
| temperature in °C <sup>1)</sup>                                                                                                              | +4                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |  |

|                                                         |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|---------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| capacity in ml                                          | 100                                                                                 | 100                                                                                 | 250                                                                                 | 1.1–1.4                                                                             | 2.6–3.4                                                                             | 2.7–3                                                                               | 4–5.5                                                                               | 4.5–5                                                                                 | 4.9                                                                                 | 7.5–8.5                                                                               | 9–10                                                                                  | 10                                                                                    |
| Ø x L in mm                                             | 44x100                                                                              | 40x115                                                                              | 65x115                                                                              | 8x66                                                                                | 13x65                                                                               | 11x66                                                                               | 15x75                                                                               | 11x92                                                                                 | 13x90                                                                               | 15x92                                                                                 | 16x92                                                                                 | 15x102                                                                                |
| Cat. No.                                                | 0526 <sup>2)</sup>                                                                  | 0523 <sup>2)</sup>                                                                  | 0530 <sup>2)</sup>                                                                  | blood collection/urine tubes                                                        |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| lid with bio-containment <sup>5)</sup><br>Cat. No. 5627 |  |  |  |  |  |  |  |    |  |  |  |  |
|                                                         |  |  |  |  |  |  |  |  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| carrier<br>Cat. No. 5625-A                              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| Cat. No.                                                | 4737                                                                                | 4736                                                                                | 4738                                                                                | 4730                                                                                | 4732                                                                                | 4733                                                                                | 4732                                                                                | 4733                                                                                  |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| boring Ø x L in mm                                      | 46x84                                                                               | 42x80                                                                               | 66x80                                                                               | 11x84                                                                               | 13.5x84                                                                             | 17.5x84                                                                             | 13.5x84                                                                             | 17.5x84                                                                               |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| tubes per rotor                                         | 8                                                                                   | 12                                                                                  | 4                                                                                   | 120                                                                                 | 80                                                                                  | 68                                                                                  | 80                                                                                  | 68                                                                                    |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| max. RCF <sup>2)</sup>                                  | 4,637                                                                               | 4,495                                                                               | 4,637                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| radius in mm                                            | 196                                                                                 | 190                                                                                 | 196                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| run-up in sec                                           | 90                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| run-down in sec, braked                                 | 95                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| temperature in °C <sup>1)</sup>                         | +4                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                     |                                                                                       |                                                                                       |                                                                                       |

<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.

<sup>2)</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>2)</sup> is 4,000.

<sup>4)</sup> Please remove the inserts.



Most of the adapters for carriers 5625-A and 4880 are built in layers. For shorter tubes, 1 to 2 layers should be removed. In the tables, the required layers are marked in grey.

## Swing-out rotor 5699

|                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|---------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| capacity in ml                                          | 1.6–5                                                                             | 4–7                                                                               | 4–7                                                                               | 8.5–10                                                                            | 14                                                                                | 15                                                                                | 50                                                                                | 12                                                                                | 25                                                                                 | 30                                                                                  | 50                                                                                  | 10                                                                                  | 30                                                                                  | 50                                                                                  | 85                                                                                  | 94                                                                                  |
| Ø x L in mm                                             | 13x75                                                                             | 13x100                                                                            | 16x75                                                                             | 16x100                                                                            | 16.5x106                                                                          | 17x120                                                                            | 29x115                                                                            | 17x100                                                                            | 25x90                                                                              | 25x110                                                                              | 29x115                                                                              | 16x80                                                                               | 26x95                                                                               | 29x107                                                                              | 38x106                                                                              | 38x102                                                                              |
| Cat. No.                                                | blood collection/urine tubes                                                      |                                                                                   |                                                                                   |                                                                                   | -                                                                                 | 0509                                                                              | 0513                                                                              | -                                                                                 |                                                                                    |                                                                                     |                                                                                     | -                                                                                   | 0545                                                                                | 0546                                                                                | 0547                                                                                | 0538 <sup>13)</sup>                                                                 |
| lid with bio-containment <sup>3)</sup><br>Cat. No. 5627 |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |
|                                                         |  |  |  |  |  |  |  |  |  |                                                                                     |  |  |  |  |  |  |
| carrier<br>Cat. No. 5625-A                              | 4732                                                                              |                                                                                   | 4733                                                                              |                                                                                   | 4739 <sup>4)</sup>                                                                | 4739                                                                              | 4740                                                                              | 4739 <sup>4)</sup>                                                                | 4734                                                                               |                                                                                     | 4740 <sup>4)</sup>                                                                  | 4733                                                                                | 4734                                                                                | 4740 <sup>4)</sup>                                                                  | 4736                                                                                |                                                                                     |
| boring Ø x L in mm                                      | 13.5x84                                                                           |                                                                                   | 17.5x84                                                                           |                                                                                   | 17x80                                                                             |                                                                                   | 30x80                                                                             | 17x80                                                                             | 26.5x84                                                                            |                                                                                     | 30x80                                                                               | 17.5x84                                                                             | 26.5x84                                                                             | 30x80                                                                               | 42x80                                                                               |                                                                                     |
| tubes per rotor                                         | 80                                                                                |                                                                                   | 68                                                                                |                                                                                   | 48                                                                                |                                                                                   | 20                                                                                | 48                                                                                | 24                                                                                 |                                                                                     | 20                                                                                  | 68                                                                                  | 24                                                                                  | 20                                                                                  | 12                                                                                  |                                                                                     |
| max. RCF <sup>2)</sup>                                  | 4,637                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 4,495                                                                               |
| radius in mm                                            | 196                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | 190                                                                                 |
| run-up in sec                                           | 90                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| run-down in sec, braked                                 | 95                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| temperature in °C <sup>1)</sup>                         | +4                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

|                                                                                                                                                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| capacity in ml                                                                                                                                                            | 1.5                                                                                 | 2.0                                                                                 | 3                                                                                   | 4                                                                                   | 4                                                                                   | 5                                                                                   | 6                                                                                   | 7                                                                                    | 10                                                                                    | 15                                                                                    | 25                                                                                    | 45                                                                                    | 50                                                                                    | 75                                                                                    | 94                                                                                    | 100                                                                                   |  |
| Ø x L in mm                                                                                                                                                               | 11x38                                                                               |                                                                                     | 10x60                                                                               | 10x88                                                                               | 12x60                                                                               | 12x75                                                                               | 12x82                                                                               | 12x100                                                                               | 17x70                                                                                 | 17x100                                                                                | 24x100                                                                                | 31x100                                                                                | 34x100                                                                                | 35x105                                                                                | 38x102                                                                                | 40x115                                                                                |  |
| Cat. No.                                                                                                                                                                  | 2078                                                                                | 0536                                                                                | -                                                                                   |                                                                                     |                                                                                     | 0553 <sup>2)</sup>                                                                  | 0501 <sup>2)</sup>                                                                  | 0578 <sup>2)</sup>                                                                   | 2079                                                                                  | 0518 <sup>2)</sup>                                                                    | 0519 <sup>2)</sup>                                                                    | -                                                                                     | 0521 <sup>2)</sup>                                                                    | 0548                                                                                  | 0549                                                                                  | 0523 <sup>2)</sup>                                                                    |  |
| lid with bio-containment <sup>5)</sup><br>Cat. No. 4883<br><br>carrier<br>Cat. No. 4880 |  |  |  |  |  |  |  |   |    |   |  |  |  |  |  |  |  |
|                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |                                                                                       |                                                                                       |  |                                                                                       |                                                                                       |  |
| Cat. No.                                                                                                                                                                  | 4830                                                                                |                                                                                     |                                                                                     |                                                                                     | 4832                                                                                |                                                                                     |                                                                                     |                                                                                      | 4833                                                                                  |                                                                                       | 4834                                                                                  | 4835                                                                                  |                                                                                       | 4836                                                                                  |                                                                                       |                                                                                       |  |
| boring Ø x L in mm                                                                                                                                                        | 11x84                                                                               |                                                                                     |                                                                                     |                                                                                     | 13.5x84                                                                             |                                                                                     |                                                                                     |                                                                                      | 17.5x84                                                                               |                                                                                       | 26.5x84                                                                               |                                                                                       | 36x80                                                                                 |                                                                                       | 42x80                                                                                 |                                                                                       |  |
| tubes per rotor                                                                                                                                                           | 192                                                                                 |                                                                                     | 96                                                                                  |                                                                                     | 76                                                                                  |                                                                                     |                                                                                     |                                                                                      |                                                                                       | 28                                                                                    |                                                                                       | 16                                                                                    |                                                                                       | 12                                                                                    |                                                                                       |                                                                                       |  |
| max. RCF <sup>2)</sup> upper / lower                                                                                                                                      | 3,572/4,637                                                                         |                                                                                     | 4,637                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 4,495                                                                                 |                                                                                       |                                                                                       |                                                                                       |  |
| radius in mm upper / lower                                                                                                                                                | 151/196                                                                             |                                                                                     | 196                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       | 190                                                                                   |                                                                                       |                                                                                       |                                                                                       |  |
| run-up in sec                                                                                                                                                             | 90                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |  |
| run-down in sec, braked                                                                                                                                                   | 95                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |  |
| temperature in °C <sup>1)</sup>                                                                                                                                           | +4                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |  |

<sup>5)</sup> Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

<sup>13)</sup> The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38x110 mm.





illustrated with carriers 4880  
and lids 4883  
with bio-containment<sup>5)</sup>

## Swing-out rotor 5699

|                                                                                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| capacity in ml                                                                                                                               | 100                                                                               | 250                                                                               | 1.1–1.4                                                                           | 2.6–3.4                                                                           | 2.6–3.4                                                                           | 2.7–3                                                                             | 4–5.5                                                                             | 4.5–5                                                                              | 4.9                                                                                 | 4.9                                                                                 | 7.5–8.5                                                                             | 9–10                                                                                | 9–10                                                                                | 10                                                                                  | 1.6–5                                                                               | 1.6–5                                                                               |
| Ø x L in mm                                                                                                                                  | 44x100                                                                            | 65x115                                                                            | 8x66                                                                              | 13x65                                                                             | 13x65                                                                             | 11x66                                                                             | 15x75                                                                             | 11x92                                                                              | 13x90                                                                               | 13x90                                                                               | 15x92                                                                               | 16x92                                                                               | 16x92                                                                               | 15x102                                                                              | 13x75                                                                               | 13x75                                                                               |
| Cat. No.                                                                                                                                     | 0526 <sup>2)</sup>                                                                | 0530 <sup>2)</sup>                                                                | blood collection/urine tubes                                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| lid with bio-containment <sup>5)</sup><br>Cat. No. 4883<br> |  |  |  |  |  |  |  |   |    |  |  |  |  |  |  |  |
|                                                                                                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                     |                                                                                     |                                                                                     |
| Cat. No.                                                                                                                                     | 4837                                                                              | 4838                                                                              | 4830                                                                              | 4847                                                                              | 4832                                                                              |                                                                                   | 4833                                                                              | 4832                                                                               |                                                                                     | 4847 <sup>4)</sup>                                                                  | 4833                                                                                | 4848                                                                                | 4833                                                                                |                                                                                     | 4847                                                                                | 4832                                                                                |
| boring Ø x L in mm                                                                                                                           | 46x84                                                                             | 66x80                                                                             | 11x84                                                                             | 13.2x61                                                                           | 13.5x84                                                                           |                                                                                   | 17.5x84                                                                           | 13.5x84                                                                            |                                                                                     | 13.2x61                                                                             | 17.5x84                                                                             | 17.5x61                                                                             | 17.5x84                                                                             |                                                                                     | 13.2x61                                                                             | 13.5x84                                                                             |
| tubes per rotor                                                                                                                              | 8                                                                                 | 4                                                                                 | 96                                                                                | 108                                                                               |                                                                                   |                                                                                   | 76                                                                                |                                                                                    |                                                                                     | 108                                                                                 | 76                                                                                  | 88                                                                                  | 76                                                                                  |                                                                                     | 108                                                                                 | 76                                                                                  |
| max. RCF <sup>2)</sup>                                                                                                                       | 4,637                                                                             | 4,495                                                                             | 4,637                                                                             | 4,116                                                                             |                                                                                   |                                                                                   | 4,637                                                                             |                                                                                    |                                                                                     | 4,684                                                                               | 4,637                                                                               | 4,684                                                                               | 4,637                                                                               |                                                                                     | 4,116                                                                               | 4,637                                                                               |
| radius in mm                                                                                                                                 | 196                                                                               | 190                                                                               | 196                                                                               | 174                                                                               |                                                                                   |                                                                                   | 196                                                                               |                                                                                    |                                                                                     | 198                                                                                 | 196                                                                                 | 198                                                                                 | 196                                                                                 |                                                                                     | 174                                                                                 | 196                                                                                 |
| run-up in sec                                                                                                                                | 90                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| run-down in sec, braked                                                                                                                      | 95                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| temperature in °C <sup>1)</sup>                                                                                                              | +4                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

|                                                                                                                                                                                                                                                                       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| capacity in ml                                                                                                                                                                                                                                                        | 4–7                                                                                 | 4–7                                                                                 | 4–7                                                                                 | 4–7                                                                                 | 8                                                                                   | 8.5–10                                                                              | 8.5–10                                                                              | 5                                                                                    | 14                                                                                    | 15                                                                                    | 50                                                                                    | 50                                                                                    | 12                                                                                    | 25                                                                                    | 30                                                                                    |
| Ø x L in mm                                                                                                                                                                                                                                                           | 13x100                                                                              | 13x100                                                                              | 16x75                                                                               | 16x75                                                                               | 16x125                                                                              | 16x100                                                                              | 16x100                                                                              | 17x59                                                                                | 16.5x106                                                                              | 17x120                                                                                | 29x115                                                                                | 29x115                                                                                | 17x100                                                                                | 25x90                                                                                 | 25x110                                                                                |
| Cat. No.                                                                                                                                                                                                                                                              | blood collection/urine tubes                                                        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | -                                                                                    |                                                                                       | 0509                                                                                  | 0513                                                                                  | 0513                                                                                  | -                                                                                     |                                                                                       | -                                                                                     |
| lid with bio-containment <sup>5)</sup><br>Cat. No. 4883<br><br><br>carrier<br>Cat. No. 4880<br> |  |  |  |  |  |  |  |   |    |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                       |                                                                                       |
| Cat. No.                                                                                                                                                                                                                                                              | 4847 <sup>4)</sup>                                                                  | 4832                                                                                | 4833                                                                                | 4848                                                                                | 4833                                                                                | 4848                                                                                | 4839                                                                                | 4839 <sup>4)</sup>                                                                   | 4839                                                                                  | 5647                                                                                  | 4840                                                                                  | 4839 <sup>4)</sup>                                                                    | 4834                                                                                  |                                                                                       |                                                                                       |
| boring Ø x L in mm                                                                                                                                                                                                                                                    | 13.2x61                                                                             | 13.5x84                                                                             | 17.5x84                                                                             | 17.5x61                                                                             | 17.5x84                                                                             | 17.5x61                                                                             | 17x80                                                                               |                                                                                      |                                                                                       | 30x96.5                                                                               |                                                                                       | 30x80                                                                                 | 17x80                                                                                 | 26.5x84                                                                               |                                                                                       |
| tubes per rotor                                                                                                                                                                                                                                                       | 108                                                                                 | 76                                                                                  | 76                                                                                  | 88                                                                                  | 76                                                                                  | 88                                                                                  | 56                                                                                  |                                                                                      |                                                                                       | 28                                                                                    |                                                                                       | 20                                                                                    | 56                                                                                    | 28                                                                                    |                                                                                       |
| max. RCF <sup>2)</sup>                                                                                                                                                                                                                                                | 4,684                                                                               | 4,637                                                                               | 4,637                                                                               | 4,684                                                                               | 4,637                                                                               | 4,684                                                                               | 4,637                                                                               |                                                                                      |                                                                                       | 4,708                                                                                 |                                                                                       | 4,637                                                                                 |                                                                                       |                                                                                       |                                                                                       |
| radius in mm                                                                                                                                                                                                                                                          | 198                                                                                 | 196                                                                                 | 196                                                                                 | 198                                                                                 | 196                                                                                 | 198                                                                                 | 196                                                                                 |                                                                                      |                                                                                       | 199                                                                                   |                                                                                       | 196                                                                                   |                                                                                       |                                                                                       |                                                                                       |
| run-up in sec                                                                                                                                                                                                                                                         | 90                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| run-down in sec, braked                                                                                                                                                                                                                                               | 95                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| temperature in °C <sup>1)</sup>                                                                                                                                                                                                                                       | +4                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |

<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.

<sup>2)</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>2)</sup> is 4,000.

<sup>3)</sup> When using these tubes, carrier 4880 cannot be closed with lid 4883.

<sup>4)</sup> Please remove the inserts.

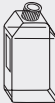
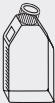


### Carrier 4885

The 4880 carrier is also available without a lid and clamp lock.  
The catalogue number is 4885.<sup>17)</sup>

## Swing-out rotor 5699

|                                                         |                    |                    |         |         |         |                    |                    |        |                     |                     |                  |                                                      |                     |                     |                     |
|---------------------------------------------------------|--------------------|--------------------|---------|---------|---------|--------------------|--------------------|--------|---------------------|---------------------|------------------|------------------------------------------------------|---------------------|---------------------|---------------------|
| capacity in ml                                          | 50                 | 50                 | 10      | 10      | 30      | 50                 | 50                 | 85     | 94                  | 250                 | 290              | 500                                                  | 600                 | 650                 | 750                 |
| Ø x L in mm                                             | 29x115             | 29x115             | 16x80   | 16x80   | 26x95   | 29x107             | 29x107             | 38x106 | 38x102              | 61x122              | 62x137           | 96x147                                               | 93x134              | 97x139              | 97x152              |
| Cat. No.                                                | -                  | -                  | -       | -       | 0545    | 0546               | 0546               | 0547   | 0538 <sup>13)</sup> | 5127 <sup>28)</sup> | - <sup>28)</sup> | Corning®                                             | 0551 <sup>28)</sup> | 0554 <sup>28)</sup> | 0512 <sup>28)</sup> |
| lid with bio-containment <sup>5)</sup><br>Cat. No. 4883 |                    |                    |         |         |         |                    |                    |        |                     |                     |                  |                                                      |                     |                     |                     |
| carrier<br>Cat. No. 4880                                |                    |                    |         |         |         |                    |                    |        |                     |                     |                  |                                                      |                     |                     |                     |
| Cat. No.                                                | 5647 <sup>4)</sup> | 4840 <sup>4)</sup> | 4833    | 4848    | 4834    | 4840 <sup>4)</sup> | 5647 <sup>4)</sup> | 4836   |                     | 4841                |                  | Adapter 4845 + support cushion 431124 (from Corning) | 4845                | 4846                | 4845                |
| boring Ø x L in mm                                      | 30x96.5            | 30x80              | 17.5x84 | 17.5x61 | 26.5x84 | 30x80              | 30x96.5            | 42x80  |                     | 62x100              |                  | 98x100                                               | 94x95               |                     | 98x100              |
| tubes per rotor                                         | 28                 | 20                 | 76      | 88      | 28      | 20                 | 28                 | 12     |                     |                     |                  | 4                                                    |                     |                     |                     |
| max. RCF <sup>2)</sup>                                  | 4,708              | 4,637              | 4,637   | 4,684   | 4,637   | 4,708              | 4,495              |        |                     |                     |                  | 4,779                                                |                     |                     |                     |
| radius in mm                                            | 199                | 196                | 196     | 198     | 196     | 199                | 190                |        |                     |                     |                  | 202                                                  |                     |                     |                     |
| run-up in sec                                           |                    |                    |         |         |         |                    |                    | 90     |                     |                     |                  |                                                      |                     |                     |                     |
| run-down in sec, braked                                 |                    |                    |         |         |         |                    |                    | 95     |                     |                     |                  |                                                      |                     |                     |                     |
| temperature in °C <sup>1)</sup>                         |                    |                    |         |         |         |                    |                    | +4     |                     |                     |                  |                                                      |                     |                     |                     |

|                                                         |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
|---------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| capacity in ml                                          | 450                                                                                 | 750                                                                                 | 30/50                                                                               | 40                                                                                  | 160                                                                                 | 200                                                                                 |                                                                                     |                                                                                     |                                                                                       |
| Ø x L in mm                                             | 97x113                                                                              | 96x135                                                                              | -                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| Cat. No.                                                | 4447                                                                                | 4234-A                                                                              | Falcon®                                                                             | Corning®                                                                            | Nunc®                                                                               | Nunc®                                                                               | Falcon®                                                                             | Greiner                                                                             | Nunc®                                                                                 |
| lid with bio-containment <sup>5)</sup><br>Cat. No. 4883 |  |  |  |  |  |  |  |  |  |
| carrier<br>Cat. No. 4880                                |  |  |  |  |  |  |                                                                                     |                                                                                     |                                                                                       |
| Cat. No.                                                | 4845                                                                                |                                                                                     | 4849                                                                                |                                                                                     | 4852                                                                                | 4851                                                                                | 4831                                                                                |                                                                                     |                                                                                       |
| boring Ø x L in mm                                      | 98x100                                                                              |                                                                                     | -                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| tubes per rotor                                         | 4                                                                                   |                                                                                     | 4                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| max. RCF <sup>2)</sup>                                  | 4,779                                                                               |                                                                                     | 4,613 <sup>31)</sup>                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| radius in mm                                            | 202                                                                                 |                                                                                     | 195                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| run-up in sec                                           | 90                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| run-down in sec, braked                                 | 95                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |
| temperature in °C <sup>1)</sup>                         | +4                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |

### Accommodated cell culture flasks:

**30/50 ml**  
from Becton Dickinson, No. 353014  
from Corning, No. 430168

**40 ml**  
from Nunc, No. 156340

**160 ml**  
from Nunc, No. 156472

**200 ml**  
from Becton Dickinson, No. 353024  
from Greiner, No. 658170  
from Nunc, No. 153732 or 147589

<sup>5)</sup> Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

<sup>13)</sup> The screw cap for tube No. 0538 is available with Cat. No. 0539. Dimensions with cap 38x110 mm.

<sup>17)</sup> With the E3905 add-on kit and the 4883 lid, the 4885 carrier can be converted at a later time to a 4880 carrier with single-hand clamp lock.

<sup>28)</sup> At temperatures of over +40 °C and/or when not filled to capacity, bottles may warp during centrifugation.

<sup>31)</sup> Please note that the RCF values indicated refer only to rotor performance.

The max. RCF for the accommodated cell culture flasks is 2,300.

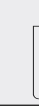
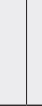
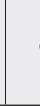


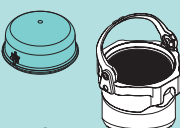
illustrated with carriers 4890  
and lids 4883  
with bio-containment<sup>5)</sup>



illustrated with carriers 4890

## Swing-out rotor 5699

|                                                                                                                                                                                                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| capacity in ml                                                                                                                                                                                                                                                    | 1.5                                                                               | 2.0                                                                               | 5                                                                                 | 7                                                                                 | 8                                                                                 | 9                                                                                 | 10                                                                                | 15                                                                                | 25                                                                                | 50                                                                                 | 100                                                                                 | 2.6–3.4                                                                             | 2.7–3                                                                               | 4–5.5                                                                               | 4.5–5                                                                               |
| Ø x L in mm                                                                                                                                                                                                                                                       | 11x38                                                                             |                                                                                   | 12x75                                                                             | 12x100                                                                            | 16x81                                                                             | 14x100                                                                            | 17x70                                                                             | 17x100                                                                            | 24x100                                                                            | 34x100                                                                             | 44x100                                                                              | 13x65                                                                               | 11x66                                                                               | 15x75                                                                               | 11x92                                                                               |
| Cat. No.                                                                                                                                                                                                                                                          | 2078                                                                              | 0536                                                                              | 0553 <sup>2)</sup>                                                                | 0578 <sup>2)</sup>                                                                | -                                                                                 | 0500 <sup>2)</sup>                                                                | 2079                                                                              | 0518 <sup>2)</sup>                                                                | 0519 <sup>2)</sup>                                                                | 0521 <sup>2)</sup>                                                                 | 0526 <sup>2)</sup>                                                                  | blood collection tubes                                                              |                                                                                     |                                                                                     |                                                                                     |
| lid with bio-containment <sup>5)</sup><br>Cat. No. 4883<br><br><br>carrier<br>Cat. No. 4890<br> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                   |  |  |  |                                                                                   |  |                                                                                   |                                                                                   |                                                                                   |  |  |  |  |  |  |  |
| Cat. No.                                                                                                                                                                                                                                                          | 4432                                                                              |                                                                                   | 4433                                                                              |                                                                                   | 4434                                                                              |                                                                                   |                                                                                   |                                                                                   | 4438                                                                              | 4439                                                                               | 4442                                                                                | 4435                                                                                | 4433                                                                                | 4434                                                                                | 4433                                                                                |
| boring Ø x L in mm                                                                                                                                                                                                                                                | 11.5x38                                                                           |                                                                                   | 13x58                                                                             |                                                                                   | 17.5x53                                                                           |                                                                                   |                                                                                   |                                                                                   | 26x72                                                                             | 36x79                                                                              | 45x78                                                                               | 13.5x58                                                                             | 13x58                                                                               | 17.5x53                                                                             | 13x58                                                                               |
| tubes per rotor                                                                                                                                                                                                                                                   | 168                                                                               |                                                                                   | 120                                                                               |                                                                                   | 76                                                                                |                                                                                   |                                                                                   |                                                                                   | 28                                                                                | 16                                                                                 | 8                                                                                   | 84                                                                                  | 120                                                                                 | 76                                                                                  | 120                                                                                 |
| max. RCF <sup>2)</sup> upper/lower                                                                                                                                                                                                                                | 3,407 / 4,542                                                                     |                                                                                   | 4,471                                                                             |                                                                                   | 4,637                                                                             |                                                                                   |                                                                                   |                                                                                   | 4,353                                                                             | 4,424                                                                              | 4,400                                                                               | 4,471                                                                               |                                                                                     | 4,637                                                                               | 4,471                                                                               |
| radius in mm upper/lower                                                                                                                                                                                                                                          | 144 / 192                                                                         |                                                                                   | 189                                                                               |                                                                                   | 196                                                                               |                                                                                   |                                                                                   |                                                                                   | 184                                                                               | 187                                                                                | 186                                                                                 | 189                                                                                 |                                                                                     | 196                                                                                 | 189                                                                                 |
| run-up in sec                                                                                                                                                                                                                                                     | 90                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| run-down in sec, braked                                                                                                                                                                                                                                           | 95                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| temperature in °C <sup>1)</sup>                                                                                                                                                                                                                                   | +4                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

|                                                                                                                                                                            |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| capacity in ml                                                                                                                                                             | 4.9                                                                                 | 7.5–8.5                                                                             | 9–10                                                                                | 10                                                                                  | 1.6–5                                                                               | 4–7                                                                                 | 4–7                                                                                 | 8                                                                                   | 8.5–10                                                                              | 10                                                                                   | 15                                                                                    | 50                                                                                    | 25                                                                                    | 30                                                                                    | 50                                                                                    | 50                                                                                    |                                                                                       |
| Ø x L in mm                                                                                                                                                                | 13x90                                                                               | 15x92                                                                               | 16x92                                                                               | 15x102                                                                              | 13x75                                                                               | 13x100                                                                              | 16x75                                                                               | 16x125                                                                              | 16x100                                                                              | 16x80                                                                                | 17x120                                                                                | 29x115                                                                                | 25x90                                                                                 | 25x110                                                                                | 29x115                                                                                | 29x107                                                                                |                                                                                       |
| Cat. No.                                                                                                                                                                   | blood collection/urine tubes                                                        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      | -                                                                                     | 0509                                                                                  | 0513                                                                                  | -                                                                                     | -                                                                                     | -                                                                                     | 0546                                                                                  |
| lid with bio-containment <sup>5)</sup><br>Cat. No. 4883<br><br>carrier<br>Cat. No. 4890 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                                       |
|                                                                                                                                                                            |  |  |                                                                                     |                                                                                     |  |                                                                                     |  |                                                                                     |                                                                                     |                                                                                      |  |  |  |                                                                                       |  |                                                                                       |  |
| Cat. No.                                                                                                                                                                   | 4435                                                                                | 4434                                                                                |                                                                                     |                                                                                     | 4435                                                                                |                                                                                     | 4434                                                                                |                                                                                     |                                                                                     |                                                                                      | 4469                                                                                  |                                                                                       | 4468                                                                                  | 4438                                                                                  |                                                                                       | 4468 <sup>4)</sup>                                                                    | 4468                                                                                  |
| boring Ø x L in mm                                                                                                                                                         | 13.5x58                                                                             | 17.5x53                                                                             |                                                                                     |                                                                                     | 13.5x58                                                                             |                                                                                     | 17.5x53                                                                             |                                                                                     |                                                                                     |                                                                                      | 17x93.1                                                                               |                                                                                       | 31x96                                                                                 | 26x72                                                                                 |                                                                                       | 31x96                                                                                 |                                                                                       |
| tubes per rotor                                                                                                                                                            | 84                                                                                  | 76                                                                                  |                                                                                     |                                                                                     | 84                                                                                  |                                                                                     | 76                                                                                  |                                                                                     |                                                                                     |                                                                                      | 56                                                                                    |                                                                                       | 28                                                                                    | 28                                                                                    |                                                                                       | 28                                                                                    |                                                                                       |
| max. RCF <sup>2)</sup>                                                                                                                                                     | 4,471                                                                               | 4,637                                                                               |                                                                                     |                                                                                     | 4,471                                                                               |                                                                                     | 4,637                                                                               |                                                                                     |                                                                                     |                                                                                      | 4,755                                                                                 |                                                                                       | 4,613                                                                                 | 4,566                                                                                 |                                                                                       | 4,613                                                                                 |                                                                                       |
| radius in mm                                                                                                                                                               | 189                                                                                 | 196                                                                                 |                                                                                     |                                                                                     | 189                                                                                 |                                                                                     | 196                                                                                 |                                                                                     |                                                                                     |                                                                                      | 201                                                                                   |                                                                                       | 195                                                                                   | 193                                                                                   |                                                                                       | 195                                                                                   |                                                                                       |
| run-up in sec                                                                                                                                                              | 90                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| run-down in sec, braked                                                                                                                                                    | 95                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| temperature in °C <sup>1)</sup>                                                                                                                                            | +4                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |

1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.

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.

3) When using these tubes, carrier 4890 cannot be closed with lid 4883.

4) Please remove the inserts.



**Carrier 4895**

The 4890 carrier is also available without a lid and clamp lock.  
The catalogue number is 4895.<sup>17)</sup>

**Swing-out rotor 5699**

|                                                                                                                                                                                                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| capacity in ml                                                                                                                                                                                                                                               | 250                                                                               | 290                                                                               | 650                                                                               | 750                                                                               | 175                                                                               | 175                                                                               | 200                                                                               | 225                                                                                 | 250                                                                                 | 500                                                                                 |
| Ø x L in mm                                                                                                                                                                                                                                                  | 61x122                                                                            | 62x137                                                                            | 97x139                                                                            | 97x152                                                                            | 61x118                                                                            | 62x144                                                                            | 60x130                                                                            | 61x137                                                                              | 60x162                                                                              | 96x147                                                                              |
| Cat. No.                                                                                                                                                                                                                                                     | 5127 <sup>28)</sup>                                                               | - <sup>28)</sup>                                                                  | 0554 <sup>28)</sup>                                                               | 0512 <sup>28)</sup>                                                               | Falcon®                                                                           | Nalgene®                                                                          | Nunc®                                                                             | Falcon®                                                                             | Corning®                                                                            | Corning®                                                                            |
| lid with bio-containment <sup>5)</sup><br>Cat. No. 4883<br><br><br>carrier<br>Cat. No. 4890 |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                              |  |                                                                                   |                                                                                   |                                                                                   |  |  |  |  |  |  |
| Cat. No.                                                                                                                                                                                                                                                     | 4443                                                                              |                                                                                   | 4451                                                                              |                                                                                   | 4440                                                                              | 4430                                                                              | 4440                                                                              | 4430                                                                                | 4449                                                                                |                                                                                     |
| boring Ø x L in mm                                                                                                                                                                                                                                           | 62x92                                                                             |                                                                                   | 98.4x116                                                                          |                                                                                   | -                                                                                 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| tubes per rotor                                                                                                                                                                                                                                              | 4                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| max. RCF <sup>2)</sup>                                                                                                                                                                                                                                       | 4,873                                                                             |                                                                                   |                                                                                   |                                                                                   | 5,063                                                                             |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| radius in mm                                                                                                                                                                                                                                                 | 206                                                                               |                                                                                   |                                                                                   |                                                                                   | 214                                                                               |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| run-up in sec                                                                                                                                                                                                                                                | 90                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| run-down in sec, braked                                                                                                                                                                                                                                      | 95                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| temperature in °C <sup>1)</sup>                                                                                                                                                                                                                              | +4                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |

|                                                                                                                       |                                                                                     |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| capacity in ml                                                                                                        | 450                                                                                 | 750                                                                                 | 450                                                                                 |
| Ø x L in mm                                                                                                           | 97 x 113                                                                            | 96 x 135                                                                            | triple system without filter                                                        |
| <b>Cat. No.</b>                                                                                                       | <b>4447</b>                                                                         | <b>4234-A</b>                                                                       | <b>blood bags<sup>32)</sup></b>                                                     |
| lid with bio-containment <sup>5)</sup><br>Cat. No. 4883                                                               |  |  |  |
| <br><b>carrier</b><br>Cat. No. 4890 |  |                                                                                     |                                                                                     |
| <b>Cat. No.</b>                                                                                                       | <b>4451</b>                                                                         |                                                                                     | -                                                                                   |
| boring Ø x L in mm                                                                                                    | 98.4 x 116                                                                          |                                                                                     |                                                                                     |
| tubes per rotor                                                                                                       | 4                                                                                   |                                                                                     |                                                                                     |
| max. RCF <sup>2)</sup>                                                                                                | 5,063                                                                               |                                                                                     |                                                                                     |
| radius in mm                                                                                                          | 214                                                                                 |                                                                                     |                                                                                     |
| run-up in sec                                                                                                         | 90                                                                                  |                                                                                     |                                                                                     |
| run-down in sec, braked                                                                                               | 95                                                                                  |                                                                                     |                                                                                     |
| temperature in °C <sup>1)</sup>                                                                                       | +4                                                                                  |                                                                                     |                                                                                     |

<sup>5)</sup> Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

<sup>17)</sup> With the E3906 add-on kit and the 4883 lid, the 4895 carrier can be converted at a later time to a 4890 carrier with single-hand clamp lock.

<sup>28)</sup> At temperatures of over +40 °C and/or when not filled to capacity, bottles may warp during centrifugation.

<sup>32)</sup> We recommend the use of the refrigerated ROTANTA 460R, 460RC or 460RF to ensure that the temperature of the blood is maintained during centrifugation.





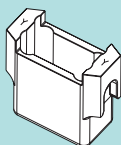
carrier 5691-A, insert 5692  
and holders 5693 and 5695

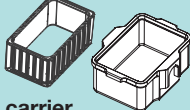


illustrated with carriers 5628  
and adapters 6338-B

## Swing-out rotor 5699

|                                                                                                                               |                                                                                   |                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| capacity in ml                                                                                                                | 450                                                                               |                                                                                   |
| <b>blood bags</b> <sup>32)</sup>                                                                                              | triple system                                                                     | quadruple system                                                                  |
| <b>Cat. No.</b>                                                                                                               | <b>5693</b>                                                                       | <b>5695</b>                                                                       |
| <br><b>carrier</b><br>Cat. No. <b>5691-A</b> | holder for systems without filter                                                 | holder for systems with or without filter                                         |
|                                                                                                                               |  |  |
| <b>Cat. No.</b>                                                                                                               | <b>5692</b>                                                                       |                                                                                   |
| boring Ø x L in mm                                                                                                            | -                                                                                 |                                                                                   |
| blood bag systems per rotor                                                                                                   | 4                                                                                 |                                                                                   |
| max. RCF <sup>2)</sup>                                                                                                        | 4,637                                                                             |                                                                                   |
| radius in mm                                                                                                                  | 196                                                                               |                                                                                   |
| run-up in sec                                                                                                                 | 90                                                                                |                                                                                   |
| run-down in sec, braked                                                                                                       | 95                                                                                |                                                                                   |
| temperature in °C <sup>1)</sup>                                                                                               | +11                                                                               |                                                                                   |

|                                                                                                                             |                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| capacity in ml                                                                                                              | -                                                                                  |
| LxWxH in mm                                                                                                                 | 152.5x85.5x12                                                                      |
| <b>Cat. No.</b>                                                                                                             | -                                                                                  |
| <br><b>carrier</b><br>Cat. No. <b>5636</b> | TaqMan Array                                                                       |
|                                                                                                                             |  |
| <b>Cat. No.</b>                                                                                                             | <b>5648</b>                                                                        |
| boring Ø x L in mm                                                                                                          | -                                                                                  |
| arrays per rotor                                                                                                            | 12                                                                                 |
| max. RCF <sup>2)</sup>                                                                                                      | 4,921                                                                              |
| radius in mm                                                                                                                | 208                                                                                |
| run-up in sec                                                                                                               | 90                                                                                 |
| run-down in sec, braked                                                                                                     | 95                                                                                 |
| temperature in °C <sup>1)</sup>                                                                                             | +4                                                                                 |

|                                                                                                                                                                                                                      |                                                                                                 |                                                                                                 |                                                                                                 |                                                                                                 |                                                                                     |                                                                                                 |                                                                                     |                                                                                                 |                                                                                                   |                                                                                                   |                                                                                                   |                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| capacity in ml                                                                                                                                                                                                       | 1.5                                                                                             | 2.0                                                                                             | 3                                                                                               | 5                                                                                               | 6                                                                                   | 7                                                                                               | 9                                                                                   | 25                                                                                              | 50                                                                                                | 100                                                                                               | 100                                                                                               | 250                                                                                               |
| Ø x L in mm                                                                                                                                                                                                          | 11x38                                                                                           |                                                                                                 | 10x60                                                                                           | 12x75                                                                                           | 12x82                                                                               | 12x100                                                                                          | 14x100                                                                              | 24x100                                                                                          | 34x100                                                                                            | 44x100                                                                                            | 40x115                                                                                            | 65x115                                                                                            |
| Cat. No.                                                                                                                                                                                                             | 2078                                                                                            | 0536                                                                                            | -                                                                                               | 0553 <sup>2)</sup>                                                                              | 0501 <sup>2)</sup>                                                                  | 0578 <sup>2)</sup>                                                                              | 0500 <sup>2)</sup>                                                                  | 0519 <sup>2)</sup>                                                                              | 0521 <sup>2)</sup>                                                                                | 0526 <sup>2)</sup>                                                                                | 0523 <sup>2)</sup>                                                                                | 0530 <sup>2)</sup>                                                                                |
| <div>(without lid 5629)<br/>adapting frame<br/>Cat. No. 5220-A</div> <div></div> <div>carrier<br/>Cat. No. 5628<sup>1)</sup></div> |              |              |              |              |  |              |  |              |              |              |              |              |
|                                                                                                                                                                                                                      | + 5220-A<br> | + 5220-A<br> | + 5220-A<br> | + 5220-A<br> |                                                                                     | + 5220-A<br> |                                                                                     | + 5220-A<br> | + 5220-A<br> | + 5220-A<br> | + 5220-A<br> | + 5220-A<br> |
| Cat. No. <sup>22)</sup>                                                                                                                                                                                              | 5281                                                                                            | 5267                                                                                            |                                                                                                 | 5268                                                                                            |                                                                                     | 5264                                                                                            | 5242                                                                                | 5243                                                                                            | 5262                                                                                              | 5249                                                                                              | 5263-A                                                                                            |                                                                                                   |
| boring Ø x L in mm                                                                                                                                                                                                   | 11.5x50                                                                                         |                                                                                                 | 11x44                                                                                           | 13.5x52                                                                                         |                                                                                     | 16x50                                                                                           |                                                                                     | 26x86                                                                                           | 36x86                                                                                             | 45.5x86                                                                                           | 42x86                                                                                             | 66x87                                                                                             |
| tubes per rotor                                                                                                                                                                                                      | 128                                                                                             |                                                                                                 | 160                                                                                             | 96                                                                                              |                                                                                     | 96                                                                                              |                                                                                     | 40                                                                                              | 16                                                                                                | 8                                                                                                 |                                                                                                   | 4                                                                                                 |
| max. RCF <sup>2)</sup>                                                                                                                                                                                               | 4,164                                                                                           |                                                                                                 | 4,069                                                                                           | 4,164                                                                                           |                                                                                     | 4,116                                                                                           |                                                                                     | 4,093                                                                                           |                                                                                                   | 4,069                                                                                             |                                                                                                   | 4,045                                                                                             |
| radius in mm                                                                                                                                                                                                         | 176                                                                                             |                                                                                                 | 172                                                                                             | 176                                                                                             |                                                                                     | 174                                                                                             |                                                                                     | 173                                                                                             |                                                                                                   | 172                                                                                               |                                                                                                   | 171                                                                                               |
| run-up in sec                                                                                                                                                                                                        | 90                                                                                              |                                                                                                 |                                                                                                 |                                                                                                 |                                                                                     |                                                                                                 |                                                                                     |                                                                                                 |                                                                                                   |                                                                                                   |                                                                                                   |                                                                                                   |
| run-down in sec, braked                                                                                                                                                                                              | 95                                                                                              |                                                                                                 |                                                                                                 |                                                                                                 |                                                                                     |                                                                                                 |                                                                                     |                                                                                                 |                                                                                                   |                                                                                                   |                                                                                                   |                                                                                                   |
| temperature in °C <sup>1)</sup>                                                                                                                                                                                      | +4                                                                                              |                                                                                                 |                                                                                                 |                                                                                                 |                                                                                     |                                                                                                 |                                                                                     |                                                                                                 |                                                                                                   |                                                                                                   |                                                                                                   |                                                                                                   |

<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.

<sup>2)</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>2)</sup> is 4,000.

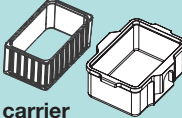
<sup>4)</sup> Please remove the inserts.

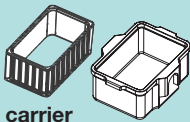
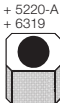
<sup>11)</sup> Please make sure not to exceed the max. permissible loading weight of 800 g of carrier 5628. The loading weight is the sum of the weight of the respective adapters, of frame 5220-A (where required), the tubes, and their contents.



illustrated with carriers 5628,  
adapting frame 5220-A and  
adapters 5258

## Swing-out rotor 5699

|                                                                                                                                                                                                                      |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                                 |                                                                                                 |                                                                                                 |                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| capacity in ml                                                                                                                                                                                                       | 1.1–1.4                                                                                       | 2.6–3.4                                                                                       | 2.7–3                                                                                         | 4–5.5                                                                                         | 4.5–5                                                                                         | 4.9                                                                                           | 7.5–8.5                                                                                       | 9–10                                                                                          | 1.6–5                                                                                           | 4–7                                                                                             | 4–7                                                                                             | 8.5–10                                                                                          |
| Ø x L in mm                                                                                                                                                                                                          | 8x66                                                                                          | 13x65                                                                                         | 11x66                                                                                         | 15x75                                                                                         | 11x92                                                                                         | 13x90                                                                                         | 15x92                                                                                         | 16x92                                                                                         | 13x75                                                                                           | 16x75                                                                                           | 13x100                                                                                          | 16x100                                                                                          |
| Cat. No.                                                                                                                                                                                                             | blood collection / urine tubes                                                                |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                                 |                                                                                                 |                                                                                                 |                                                                                                 |
| <div>(without lid 5629)<br/>adapting frame<br/>Cat. No. 5220-A</div> <div></div> <div>carrier<br/>Cat. No. 5628 <sup>11)</sup></div> |              |              |              |              |              |              |              |              |              |              |              |              |
|                                                                                                                                                                                                                      | + 5220-A<br> | + 5220-A<br> | + 5220-A<br> | + 5220-A<br> | + 5220-A<br> | + 5220-A<br> | + 5220-A<br> | + 5220-A<br> | + 5220-A<br> | + 5220-A<br> | + 5220-A<br> | + 5220-A<br> |
| Cat. No. <sup>22)</sup>                                                                                                                                                                                              | 5267                                                                                          | 5268                                                                                          | 5227                                                                                          | 5264                                                                                          | 5227                                                                                          | 5268                                                                                          | 5264                                                                                          | 5258                                                                                          | 5268                                                                                            | 5264                                                                                            | 5268                                                                                            | 5258                                                                                            |
| boring Ø x L in mm                                                                                                                                                                                                   | 11x44                                                                                         | 13.5x52                                                                                       | 12.5x42                                                                                       | 16x50                                                                                         | 12.5x42                                                                                       | 13.5x52                                                                                       | 16x50                                                                                         | 17.6x86                                                                                       | 13.5x52                                                                                         | 16x50                                                                                           | 13.5x52                                                                                         | 17.6x86                                                                                         |
| tubes per rotor                                                                                                                                                                                                      | 160                                                                                           | 96                                                                                            | 160                                                                                           | 96                                                                                            | 160                                                                                           | 96                                                                                            | 96                                                                                            | 88                                                                                            | 96                                                                                              |                                                                                                 | 88                                                                                              |                                                                                                 |
| max. RCF <sup>2)</sup>                                                                                                                                                                                               | 4,069                                                                                         | 4,164                                                                                         | 4,116                                                                                         |                                                                                               |                                                                                               | 4,164                                                                                         | 4,116                                                                                         | 4,093                                                                                         | 4,164                                                                                           | 4,116                                                                                           | 4,164                                                                                           | 4,093                                                                                           |
| radius in mm                                                                                                                                                                                                         | 172                                                                                           | 176                                                                                           | 174                                                                                           |                                                                                               |                                                                                               | 176                                                                                           | 174                                                                                           | 173                                                                                           | 176                                                                                             | 174                                                                                             | 176                                                                                             | 173                                                                                             |
| run-up in sec                                                                                                                                                                                                        | 90                                                                                            |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                                 |                                                                                                 |                                                                                                 |                                                                                                 |
| run-down in sec, braked                                                                                                                                                                                              | 95                                                                                            |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                                 |                                                                                                 |                                                                                                 |                                                                                                 |
| temperature in °C <sup>1)</sup>                                                                                                                                                                                      | +4                                                                                            |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                               |                                                                                                 |                                                                                                 |                                                                                                 |                                                                                                 |

|                                                         |                                                                                    |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                            |
|---------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| capacity in ml                                          | 15                                                                                 | 30                                                                                                                                                                         | 50                                                                                                                                                                         | 50                                                                                                                                                                         | 250                                                                                                                                                                        | two-tier frame for<br>cyto accessories                                                                                                                                     |                                                                                                                                                                            |
| Ø x L in mm                                             | 17x120                                                                             | 25x110                                                                                                                                                                     | 29x115                                                                                                                                                                     | 29x115                                                                                                                                                                     | 61x122                                                                                                                                                                     |                                                                                                                                                                            |                                                                                                                                                                            |
| Cat. No.                                                | 0509                                                                               | -                                                                                                                                                                          | 0513                                                                                                                                                                       | -                                                                                                                                                                          | 5127 <sup>28)</sup>                                                                                                                                                        | cyto chambers <sup>23)</sup>                                                                                                                                               |                                                                                                                                                                            |
| (without lid 5629)<br>adapting frame<br>Cat. No. 5220-A |  | <br> | <br> | <br> | <br> | <br> | <br> |
| carrier<br>Cat. No. 5628 <sup>11)</sup>                 |                                                                                    | + 5220-A                                                                                                                                                                   |                                                                                                                                                                            |                                                                                                                                                                            | + 5220-A<br>+ 6319                                                                                                                                                         | + 5220-A                                                                                                                                                                   |                                                                                                                                                                            |
| Cat. No. <sup>22)</sup>                                 | 6337-B                                                                             | 5266 <sup>4)</sup>                                                                                                                                                         | 6338-B                                                                                                                                                                     | 6339-A                                                                                                                                                                     | 5263-A <sup>4)</sup>                                                                                                                                                       | 5280                                                                                                                                                                       |                                                                                                                                                                            |
| boring Ø x L in mm                                      | 17x90                                                                              | 26x86                                                                                                                                                                      | 30x90                                                                                                                                                                      | 30x87                                                                                                                                                                      | 66x87                                                                                                                                                                      | -                                                                                                                                                                          |                                                                                                                                                                            |
| tubes per rotor                                         | 56                                                                                 | 40                                                                                                                                                                         | 24                                                                                                                                                                         | 24                                                                                                                                                                         | 4                                                                                                                                                                          | 16                                                                                                                                                                         |                                                                                                                                                                            |
| max. RCF <sup>2)</sup> upper / lower                    | 4,258                                                                              | 4,187                                                                                                                                                                      | 4,258                                                                                                                                                                      | 4,187                                                                                                                                                                      |                                                                                                                                                                            | 2,744 / 4,069                                                                                                                                                              |                                                                                                                                                                            |
| radius in mm upper / lower                              | 180                                                                                | 177                                                                                                                                                                        | 180                                                                                                                                                                        | 177                                                                                                                                                                        |                                                                                                                                                                            | 116 / 172                                                                                                                                                                  |                                                                                                                                                                            |
| run-up in sec                                           | 90                                                                                 |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                            |
| run-down in sec, braked                                 | 95                                                                                 |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                            |
| temperature in °C <sup>1)</sup>                         | +4                                                                                 |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                            |                                                                                                                                                                            |



Carrier 5628, adapting frame 5220-A and  
adapters 5258



Carrier 5628 and adapter 6338-B

<sup>22)</sup> With the exception of adapters 5263-A, 6337-B, 6338-B and 6339-A, two of these adapters need to be placed into carrier 5628.

<sup>23)</sup> Please ask for our detailed cyto brochure.

<sup>28)</sup> At temperatures of over +40 °C and/or when not filled to capacity, bottles may warp during centrifugation.

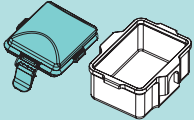
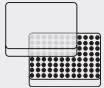
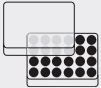
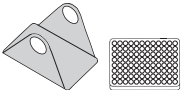
<sup>32)</sup> We recommend the use of the refrigerated ROTANTA 460R, 460RC or 460RF to ensure that the temperature of the blood is maintained during centrifugation.





illustrated with carriers 5628  
and lids 5629  
with bio-containment<sup>5)</sup>  
and removal frame 4626

## Swing-out rotor 5699

|                                                                                                                                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| DxWxH in mm                                                                                                                                                                           | 86x128x15                                                                         | 86x128x17.5                                                                       | 86x128x22                                                                         | 86x128x44.5                                                                       | 86x128x46                                                                         | 86x128x83                                                                          | 59x84x11                                                                            | 82x124x20                                                                           | -                                                                                   |
| capacity in ml                                                                                                                                                                        | -                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | 0.2                                                                                 |
| Cat. No.                                                                                                                                                                              | MTP                                                                               |                                                                                   | CP                                                                                | DWP                                                                               | MS                                                                                | QP                                                                                 | Microtest plate (Terasaki)                                                          | PCR plate, 96 wells                                                                 | PCR strips                                                                          |
| lid with bio-containment <sup>5)</sup><br>Cat. No. 5629<br><br>carrier<br>Cat. No. 5628 <sup>1)</sup> |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                       |  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |  |                                                                                     |
| Cat. No.                                                                                                                                                                              | 4626                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | 4626 + 1485                                                                         |                                                                                     |
| boring Ø x L in mm                                                                                                                                                                    | -                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| plates/strips per rotor                                                                                                                                                               | 24                                                                                | 20                                                                                | 16                                                                                | 4                                                                                 | 4                                                                                 | 4                                                                                  | 8                                                                                   | 4                                                                                   | 48x8                                                                                |
| max. RCF <sup>2)</sup>                                                                                                                                                                | 4,211                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| radius in mm                                                                                                                                                                          | max. 178                                                                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| run-up in sec                                                                                                                                                                         | 90                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| run-down in sec, braked                                                                                                                                                               | 95                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| temperature in °C <sup>1)</sup>                                                                                                                                                       | +4                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |

<sup>1)</sup> Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.

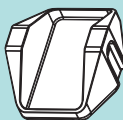
<sup>2)</sup> Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote <sup>2)</sup> is 4,000.

<sup>5)</sup> Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.



illustrated with carriers 5630-B  
and removal frame 4626

## Swing-out rotor 5699

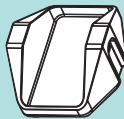
|                                                                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| capacity in ml                                                                                                                | 40                                                                                | 160                                                                               | 200                                                                               |                                                                                   |                                                                                   |
| LxWxH in mm                                                                                                                   | -                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Cat. No.                                                                                                                      | Nunc®                                                                             | Nunc®                                                                             | Falcon®                                                                           | Greiner                                                                           | Nunc®                                                                             |
| <br><b>carrier</b><br>Cat. No. <b>5630-B</b> |  |  |  |  |  |
|                                                                                                                               |  |  |  |                                                                                   |                                                                                   |
| Cat. No.                                                                                                                      | <b>5672</b>                                                                       | <b>5673</b>                                                                       | <b>5671</b>                                                                       |                                                                                   |                                                                                   |
| boring Ø x L in mm                                                                                                            | -                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| flasks per rotor                                                                                                              | 4                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| max. RCF <sup>2)</sup>                                                                                                        | 3,785 <sup>31)</sup>                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| radius in mm                                                                                                                  | 160                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| run-up in sec                                                                                                                 | 90                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| run-down in sec, braked                                                                                                       | 95                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| temperature in °C <sup>1)</sup>                                                                                               | +4                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |

### Accommodated cell culture flasks:

**40 ml**  
from Nunc, No. 156340 or 156367

**160 ml**  
from Nunc, No. 156472 or 156499

**200 ml**  
from Becton Dickinson, No. 353024  
from Greiner, No. 658170  
from Nunc, No. 153732 or 147589

|                                                                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                                                                                                             |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| capacity in ml                                                                                                                  | 86x128x15                                                                           | 86x128x17.5                                                                         | 86x128x22                                                                           | 86x128x44.5                                                                         | 86x128x46                                                                           | 86x128x83                                                                           | 59x84x11                                                                             | 82x124x20                                                                                                                                                                   | -                                                                                     |
| LxWxH in mm                                                                                                                     | -                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                                                                                                             | 0.2                                                                                   |
| Cat. No.                                                                                                                        | MTP                                                                                 |                                                                                     | CP                                                                                  | DWP                                                                                 | MS                                                                                  | QP                                                                                  | Microtest plate<br>(Terasaki)                                                        | PCR plate,<br>96 wells                                                                                                                                                      | PCR strips                                                                            |
| <br><b>carrier</b><br>Cat. No. <b>5630-B</b> |  |  |  |  |  |  |  |                                                                                        |  |
|                                                                                                                                 |  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |   |                                                                                       |
| Cat. No.                                                                                                                        | 4626                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      | 4626 + 1485                                                                                                                                                                 |                                                                                       |
| boring Ø x L in mm                                                                                                              | -                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                                                                                                             |                                                                                       |
| plates/strips per rotor                                                                                                         | 20                                                                                  | 16                                                                                  | 12                                                                                  | 4                                                                                   | 4                                                                                   | 4                                                                                   | 8                                                                                    | 4                                                                                                                                                                           | 48x8                                                                                  |
| max. RCF <sup>2)</sup>                                                                                                          | 3,832                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                                                                                                             |                                                                                       |
| radius in mm                                                                                                                    | max. 162                                                                            |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                                                                                                             |                                                                                       |
| run-up in sec                                                                                                                   | 90                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                                                                                                             |                                                                                       |
| run-down in sec, braked                                                                                                         | 95                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                                                                                                             |                                                                                       |
| temperature in °C <sup>1)</sup>                                                                                                 | +4                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                                                                                                             |                                                                                       |

<sup>1)</sup> Please make sure not to exceed the max. permissible loading weight of 800 g of carrier 5628. The loading weight is the sum of the weight of the respective adapters, of frame 5220-A (where required), the tubes, and their contents.  
<sup>31)</sup> Please note that the RCF values indicated refer only to rotor performance.  
The max. RCF for the accommodated cell culture flasks is 2,300.