



## *Offering Flexibility to Maximize Sample Preparation*

- Choose from a range of rotors to be used with Frontier centrifuges to match capacities and flexibility required for your basic to high-performance sample preparation needs
- Designed with usability in mind, the Frontier rotors can be effortlessly installed or removed in a few quick and simple steps, and users have easy access to the samples
- The sturdy rotors are constructed of high-quality materials, built to last through demanding workflows from autoclave sterilization to sub-zero temperature
- OHAUS Frontier centrifuges are reliable, versatile and ideal for numerous laboratory applications
- Features include small to medium capacity, various speed ranges and non-refrigerated or refrigerated options to suit all requirements

*Ingeniously Practical*

# FRONTIER™ 5000 Series

## Powerful and Versatile Centrifuges for Virtually Every Lab Application

- The intuitive design of the centrifuges & accessories enable easy access to parameter settings, and quick rotation between applications.
- Our multi-purpose centrifuges offer a high-speed centrifuge platform which can be customized to fit workflow needs using a wide variety of rotors and accessories.
- The performance of these centrifuges is propelled by German engineering, and high-quality components for reliable use.

## Specifications

| Model   | Item No.  | Voltage  | Speed Range      | Temp. Range   | Max. g-force | Max. Capacity   | Product Dimensions/Weight     | Shipping Dimensions/Weight    |
|---------|-----------|----------|------------------|---------------|--------------|-----------------|-------------------------------|-------------------------------|
| FC5916  | 30553036  | 230V     | 200 - 16,000 rpm | Air Cooled    | 24,325 xg    | 4 x 750 ml      | 540 x 670 x 390 mm<br>85 kg   | 780 x 670 x 590 mm<br>98 kg   |
| FC5916R | 30553101  | 230V     | 200 - 16,000 rpm | -20°C to 40°C | 26,331 xg    | 4 x 750 ml      | 730 x 670 x 390 mm<br>118 kg  | 900 x 70 x 560 mm<br>137 kg   |
| FC5816  | 30314816  | 230V     | 200 - 15,000 rpm | Air Cooled    | 21,379 xg    | 6 x 250 ml      | 530 x 440 x 350 mm<br>52 kg   | 670 x 550 x 530 mm<br>56 kg   |
| FC5816R | 30314818  | 230V     | 200 - 16,000 rpm | -20°C to 40°C | 24,325 xg    | 6 x 250 ml      | 530 x 720 x 350 mm<br>77 kg   | 840 x 640 x 590 mm<br>87 kg   |
| FC5718  | 30314812  | 230V     | 200 - 18,000 rpm | Air Cooled    | 23,542 xg    | 4 x 100 ml      | 490 x 400 x 490 mm<br>43 kg   | 650 x 490 x 520 mm<br>53 kg   |
| FC5718R | 30314814  | 230V     | 200 - 18,000 rpm | -20°C to 40°C | 23,542 xg    | 4 x 100 ml      | 730 x 400 x 350 mm<br>60 kg   | 840 x 640 x 590 mm<br>77 kg   |
| FC5714  | 30314810  | 230V     | 200 - 14,000 rpm | Air Cooled    | 18,624 xg    | 4 x 100 ml      | 490 x 360 x 330 mm<br>30 kg   | 580 x 490 x 280 mm<br>32.5 kg |
| FC5707* | 30393189  | 100-230V | 200 - 6,800 rpm  | Air Cooled    | 4,445 xg     | 8 x 15 ml       | 277 x 356 x 236 mm<br>10 kg   | 370 x 470 x 340 mm<br>11.5 kg |
| FC5706  | 30130875  | 230V     | 200 - 6,000 rpm  | Air Cooled    | 4,427 xg     | 6 x 50 ml       | 390 x 290 x 260 mm<br>10 kg   | 540 x 400 x 380 mm<br>14 kg   |
| FC5515  | 30130866  | 230V     | 200 - 15,000 rpm | Air Cooled    | 21,953 xg    | 44 x 1.5/2.0 ml | 390 x 280 x 290 mm<br>17 kg   | 540 x 400 x 380 mm<br>20 kg   |
| FC5515R | 30130868  | 230V     | 200 - 15,000 rpm | -20°C to 40°C | 21,953 xg    | 44 x 1.5/2.0 ml | 560 x 280 x 290 mm<br>35 kg   | 660 x 400 x 520 mm<br>44 kg   |
| FC5513  | 30393187  | 230V     | 200 - 13,500 rpm | Air Cooled    | 17,317 xg    | 24 x 1.5/2.0 ml | 277 x 356 x 236 mm<br>12.6 kg | 370 x 470 x 340 mm<br>14.0 kg |
|         | 30370691* |          |                  |               |              |                 |                               |                               |
| FC5306* | 30134156  | 100-240V | 6,000 rpm        | Air Cooled    | 2,000 xg     | 8 x 1.5/2.0 ml  | 150 x 168 x 128 mm<br>1.1 kg  | 216 x 305 x 194 mm<br>1.9 kg  |

\*Rotor Included

## Rotors for FRONTIER™ FC5916 and FC5916R



| Angle Rotor 24 x 1.5/2.0 ml BIOSEALS |                 |
|--------------------------------------|-----------------|
| Item No.                             | 30304361        |
| Rotor Capacity                       | 24 x 1.5/2.0 ml |
| Rotor Type                           | Angle, 45°      |
| Permissible Net Weight               | 24 x 3.4 g      |
| Lowest Temperatures                  | 6 °C            |


| Accessory Specifications  | n/a               |                   |                   |
|---------------------------|-------------------|-------------------|-------------------|
| Accessory Item No.        | n/a               | 30130884          | 30130885          |
| Accessory Type            | n/a               | Adapter           |                   |
| Max. RPM (FC5916/FC5916R) | 16,000/16,000     |                   |                   |
| Quantity in Package       | n/a               | 6/pk              |                   |
| Max. RCF                  | 24,325/24,325 x g | 21,463/21,463 x g | 23,466/23,466 x g |
| Tube Specifications       |                   |                   |                   |
| Tube Type                 | Micro Tube        |                   |                   |
| Tube volume               | 1.5/2.0 ml        | 0.2/0.4 ml        | 0.5 ml            |
| Tubes per Rotor           | 24                |                   |                   |
| Max. Tube Diameter (mm)   | 11                | 6                 | 8                 |
| Tube Height (mm)          | 40                | 20                | 30                |






| Angle Rotor 6 x 250 ml |            |
|------------------------|------------|
| Item No.               | 30314821   |
| Rotor Capacity         | 6 x 250 ml |
| Rotor Type             | Angle, 28° |
| Permissible Net Weight | 6 x 355 g  |
| Lowest Temperatures    | 3 °C       |


| Accessory Specifications  | n/a                 |                   |                   |                   |                   |                   |                   |                   |                   |                |
|---------------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|
| Accessory Item No.        | n/a                 | 30304369          | 30304370          | 30304371          | 30304372          | 30304373          | 30304374          | 30559412          | 30559413          | 30559414       |
| Accessory Type            | n/a                 | Adapter           |                   |                   |                   |                   |                   |                   |                   |                |
| Max. RPM (FC5916/FC5916R) | 8,000/8,000         |                   |                   |                   |                   |                   |                   |                   |                   |                |
| Quantity in Package       | n/a                 | 2 /pk             |                   |                   |                   |                   |                   | 3 /pk             | 2 /pk             |                |
| Max. RCF                  | 10,016 / 10,016 x g | 9,444 / 9,444 x g | 9,515 / 9,515 x g | 9,301 / 9,301 x g | 8,943 / 8,943 x g | 8,585 / 8,585 x g | 8,371 / 8,371 x g | 9,444 / 9,444 x g | 10,016/10,016 x g |                |
| Tube Specifications       |                     |                   |                   |                   |                   |                   |                   |                   |                   |                |
| Tube Type                 | Flat Bottom         | Micro Tube        | Round Bottom      | Falcon            | Round Bottom      |                   | Falcon            | Micro Tube        |                   | Conical Bottom |
| Tube volume               | 250 ml              | 1.5/2.0 ml        | 10 ml             | 15 ml             | 30 ml             | 50 ml             |                   | 1.5/2.0 ml        | 250 ml            | 175-225 ml     |
| Tubes per Rotor           | 6                   | 48                | 30                | 24                | 12                | 6                 |                   | 90                | 6                 |                |
| Max. Tube Diameter (mm)   | 62                  | 11                | 16                | 17                | 26                | 29                | 30                | 11                | 60                | 61             |
| Tube Height (mm)          | 140                 | 42                | 80                | 120               | 92                | 103               | 118               | 42                | 118/137           | 159            |

## Rotors for FRONTIER™ FC5916 and FC5916R


















| Swing Out Rotor 2 x 3 MTP w/Bucket |                  |
|------------------------------------|------------------|
| Item No.                           | 30314824         |
| Rotor Capacity                     | 2 x 3 MTP        |
| Rotor Type                         | Swing Out, 0-90° |
| Permissible Net Weight             | 2 x 310 g        |
| Lowest Temperature                 | -3 °C            |


| Accessory Specifications  |  |  |
|---------------------------|---|---|
| Accessory Item No.        | 30314890  | 30314891  |
| Accessory Type            | Bucket  | Adapter   |
| Max. RPM (FC5916/FC5916R) | 4,500/4,500   |   |
| Quantity in Package       | 2/pk  |   |
| Max. RCF                  | 2,716/2,716 x g   |   |
| Tube Specifications       | n/a   |  |
| Tube Type                 | Microplate  | Microtube   |
| Tube volume               | MTP   | 1.5/2.0 ml  |
| Tubes per Rotor           | 6 Standard Microplates or 2 Deepwell Plates                                       | 96  |
| Max. Tube Diameter (mm)   | 87 x 128  | 11  |
| Tube Height (mm)          | 51  | 42  |


















| Angle Rotor 6 x 85 ml  |            |
|------------------------|------------|
| Item No.               | 30314826   |
| Rotor Capacity         | 6 x 85 ml  |
| Rotor Type             | Angle, 38° |
| Permissible Net Weight | 6 x 140 g  |
| Lowest Temperatures    | 15°C       |

| Accessory Specifications  | n/a   |  |  |  |  |  |  |  |
|---------------------------|---|---|---|---|---|---|---|---|
| Accessory Item No.        | n/a   | 30314893  | 30314894  | 30314895  | 30314896  | 30314897  | 30314898  | 30314899  |
| Accessory Type            | n/a   | Adapter   |   |   |   |   |   |   |
| Max. RPM (FC5916/FC5916R) | 11,000/13,000   |   |   |   |   |   |   |   |
| Quantity in Package       | n/a   | 2/pk  |   |   |   |   |   |   |
| Max. RCF                  | 15,555 / 21,762 x g   | 14,338 / 20,025 x g   | 14,067 / 19,647 x g   | 14,743 / 20,592 x g   | 14,338 / 20,025 x g   | 14,067 / 19,647 x g   | 15,014 / 20,970 x g   | 14,067 / 19,647 x g   |
| Tube Specifications       |  |  |  |  |  |  |  |  |
| Tube Type                 | Round Bottom  |   |   | Falcon  |   | Round Bottom  |   |   |
| Tube volume               | 85 ml   | 15 ml   | 30 ml   | 50 ml   |   | 15 ml   |   | 16 ml   |
| Tubes per Rotor           | 6   |   |   |   |   |   | 12  | 6   |
| Max. Tube Diameter (mm)   | 38  | 17  | 25  | 29  |   | 17  |   | 18  |
| Tube Height (mm)          | 113   | 103/110   | 90/103  | 105   | 118   | 120   | 95/100  | 103/110   |


## Rotors for FRONTIER™ FC5916 and FC5916R














| Angle Rotor 4 x 85 ml  |            |
|------------------------|------------|
| Item No.               | 30314827   |
| Rotor Capacity         | 4 x 85 ml  |
| Rotor Type             | Angle, 30° |
| Permissible Net Weight | 4 x 140 g  |
| Lowest Temperatures    | 5 °C       |

| Accessory Specifications  | n/a   |  |  |  |  |  |  |  |
|---------------------------|---|---|---|---|---|---|---|---|
| Accessory Item No.        | n/a   | 30314893  | 30314894  | 30314895  | 30314896*   | 30314897*   | 30314898  | 30314899  |
| Accessory Type            | n/a   | Adapter   |   |   |   |   |   |   |
| Max. RPM (FC5916/FC5916R) | 15,000/16,000   |   |   |   |   |   |   |   |
| Quantity in Package       | n/a   | 2/pk  |   |   |   |   |   |   |
| Max. RCF                  | 23,685 / 26,331 x g   | 17,103 / 18,243 x g   | 16,902 / 18,028 x g   | 17,908 / 19,101 x g   | 17,304 / 18,457 x g   | 16,700 / 17,813 x g   | 15,091 / 16,097 x g   | 16,700 / 17,813 x g   |
| Tube Specifications       |  |  |  |  |  |  |  |  |
| Tube Type                 | Round Bottom  |   |   |   | Falcon  |   | Round Bottom  |   |
| Tube volume               | 85 ml   | 15 ml   | 30 ml   | 50 ml   |   | 15 ml   |   | 16 ml   |
| Tubes per Rotor           | 4   |   |   |   |   |   | 12  | 6   |
| Max. Tube Diameter (mm)   | 38  | 17  | 25  | 29  |   | 17  |   | 18  |
| Tube Height (mm)          | 113   | 103/110   | 90/103  | 105   | 118   | 120   | 95/100  | 103/110   |

\*Only without rotor lid




| Angle Rotor 10 x 50 ml |            |
|------------------------|------------|
| Item No.               | 30314829   |
| Rotor Capacity         | 10 x 50 ml |
| Rotor Type             | Angle, 38° |
| Permissible Net Weight | 10 x 74 g  |
| Lowest Temperatures    | 9°C        |










| Accessory Specifications  | n/a   |  |  |  |  |  |
|---------------------------|---|---|---|---|---|---|
| Accessory Item No.        | n/a   | 30130886*   | 30130889*   | 30130890*   | 30472300  | 30472307  |
| Accessory Type            | n/a   | Adapter   |   |   |   |   |
| Max. RPM (FC5916/FC5916R) | 10,000/10,500   |   |   |   |   |   |
| Quantity in Package       | n/a   | 6/pk  |   | 2/pk  |   |   |
| Max. RCF                  | 10,899 / 11,444 x g   | 7,461 / 7,834 x g   | 10,228 / 10,739 x g   | 8,719 / 9,155 x g   | 10,480 / 11,004 x g   | 10,731 / 11,267 x g   |
| Tube Specifications       |  |  |  |  |  |  |
| Tube Type                 | Falcon  | Micro Tube  | Round Bottom  |   | Conical   |   |
| Tube Volume               | 50 ml   | 1.5/2.0 ml  | 7 ml  | 5 ml  | 15 ml   |   |
| Tubes per Rotor           | 10  |   |   |   |   |   |
| Max. Tube Diameter (mm)   | 29  | 11  | 13.5  |   | 17  |   |
| Tube Height (mm)          | 118   | 42  | 100   | 100   | 97-123  | 120   |

\*Only possible with adapter 30472300 or 30472307


## Rotors for FRONTIER™ FC5916 and FC5916R




| Angle Rotor 6 x 50 ml  |            |
|------------------------|------------|
| Item No.               | 30314831   |
| Rotor Capacity         | 6 x 50 ml  |
| Rotor Type             | Angle, 26° |
| Permissible Net Weight | 6 x 94 g   |
| Lowest Temperatures    | -5 °C      |

| Accessory Specifications  | n/a   |  |  |  |  |
|---------------------------|---|---|---|---|---|
| Accessory Item No.        | n/a   | 30130891  | 30130892  | 30130893  | 30314892*   |
| Accessory Type            | n/a   | Adapter   |   |   |   |
| Max. RPM (FC5916/FC5916R) | 13,000/13,000   |   |   |   |   |
| Quantity in Package       | n/a   | 2/pk  |   |   |   |
| Max. RCF                  | 15,869/15,869 x g   | 14,649/14,649 x g   | 13,777/13,777 x g   | 13,951/13,951 x g   | 13,428/13,428 x g   |
| Tube Specifications       |  |  |  |  |  |
| Tube Type                 | Round Bottom Oakridge   | Round Bottom  |   |   | Falcon  |
| Tube Volume               | 50 ml   | 30 ml   | 16 ml   | 15 ml   |   |
| Tubes per Rotor           | 6   |   |   |   |   |
| Max. Tube Diameter (mm)   | 29  | 26  | 18  | 17  | 17.5  |
| Tube Height (mm)          | 95/115  | 100   | 100/105   |   | 116/125   |


\*Only without bucket lid








| Angle Rotor 20 x 10 ml |            |
|------------------------|------------|
| Item No.               | 30314833   |
| Rotor Capacity         | 20 x 10 ml |
| Rotor Type             | Angle, 30° |
| Permissible Net Weight | 20 x 18 g  |
| Lowest Temperatures    | -11.5 °C   |


| Accessory Specifications  | n/a   |
|---------------------------|---|
| Accessory Item No.        | n/a   |
| Accessory Type            | n/a   |
| Max. RPM (FC5916/FC5916R) | 16,000 /16,000  |
| Quantity in Package       | n/a   |
| Max. RCF                  | 15,775/15,775 x g   |
| Tube Specifications       |  |
| Tube Type                 | Falcon  |
| Tube volume               | 10 ml   |
| Tubes per Rotor           | 20  |
| Max. Tube Diameter (mm)   | 16  |
| Tube Height (mm)          | 80  |

## Rotors for FRONTIER™ FC5916 and FC5916R








| Angle Rotor 44 x 1.5/2.0 ml |                 |
|-----------------------------|-----------------|
| Item No.                    | 30314835        |
| Rotor Capacity              | 44 x 1.5/2.0 ml |
| Rotor Type                  | Angle, 32°/55°  |
| Permissible Net Weight      | 44 x 3.8 g      |
| Lowest Temperatures         | 8 °C            |


| Accessory Specifications  | n/a   |  |  |
|---------------------------|---|---|---|
| Accessory Item No.        | n/a   | 30130884  | 30130885  |
| Accessory Type            | n/a   | Adapter   |   |
| Max. RPM (FC5916/FC5916R) | 16,000/16,000   |   |   |
| Quantity in Package       | n/a   | 6/pk  |   |
| Max. RCF                  | 24,325/24,325 x g   | 22,035/22,035 x g   | 23,467/23,467 x g   |
| Tube Specifications       |  |  |  |
| Tube Type                 | Micro Tube  |   |   |
| Tube volume               | 1.5/2.0 ml  | 0.2/0.4 ml  | 0.5 ml  |
| Tubes per Rotor           | 44  |   |   |
| Max. Tube Diameter (mm)   | 11  | 6   | 8   |
| Tube Height (mm)          | 40  | 20  | 30  |








| Angle Rotor 30 x 1.5/2.0 ml Sealable |                 |
|--------------------------------------|-----------------|
| Item No.                             | 30314836        |
| Rotor Capacity                       | 30 x 1.5/2.0 ml |
| Rotor Type                           | Angle, 45°      |
| Permissible Net Weight               | 30 x 3.4 g      |
| Lowest Temperature                   | 9 °C            |


| Accessory Specifications  | n/a   |  |  |
|---------------------------|---|---|---|
| Accessory Item No.        | n/a   | 30130884  | 30130885  |
| Accessory Type            | n/a   | Adapter   |   |
| Max. RPM (FC5916/FC5916R) | 15,000/15,000   |   |   |
| Quantity in Package       | n/a   | 6/pk  |   |
| Max. RCF                  | 23,643/23,643 x g   | 21,361/21,361 x g   | 19,719/19,719 x g   |
| Tube Specifications       |  |  |  |
| Tube Type                 | Microtube   |   |   |
| Tube volume               | 1.5/2.0 ml  | 0.2/0.4 ml  | 0.5 ml  |
| Tubes per Rotor           | 30  |   |   |
| Max. Tube Diameter (mm)   | 11  | 6   | 8   |
| Tube Height (mm)          | 40  | 20  | 30  |

### Rotors for FRONTIER™ FC5916 and FC5916R



| Angle Rotor 24 x 1.5/2.0 ml |                 |
|-----------------------------|-----------------|
| Item No.                    | 30314838        |
| Rotor Capacity              | 24 x 1.5/2.0 ml |
| Rotor Type                  | Angle, 45°      |
| Permissible Net Weight      | 24 x 3.4 g      |
| Lowest Temperature          | 6 °C            |


| Accessory Specifications  | n/a   |  |  |
|---------------------------|---|---|---|
| Accessory Item No.        | n/a   | 30130884  | 30130885  |
| Accessory Type            | n/a   | Adapter   |   |
| Max. RPM (FC5916/FC5916R) | 16,000/16,000   |   |   |
| Quantity in Package       | n/a   | 6/pk  |   |
| Max. RCF                  | 24,325/24,325 x g   | 22,035/22,035 x g   | 23,467/23,467 x g   |
| Tube Specifications       |  |  |  |
| Tube Type                 | Microtube   |   |   |
| Tube volume               | 1.5/2.0 ml  | 0.2/0.4 ml  | 0.5 ml  |
| Tubes per Rotor           | 24  |   |   |
| Max. Tube Diameter (mm)   | 11  | 6   | 8   |
| Tube Height (mm)          | 40  | 20  | 30  |

















| Angle Rotor 4 x 8-w PCR Strip |                   |
|-------------------------------|-------------------|
| Item No.                      | 30314841          |
| Rotor Capacity                | 4 x 8-w PCR Strip |
| Rotor Type                    | Angle, 45°        |
| Permissible Net Weight        | 4 x 3.5 g         |
| Lowest Temperatures           | -1 °C             |

















| Accessory Specifications  | n/a               |
|---------------------------|-------------------|
| Accessory Item No.        | n/a               |
| Accessory Type            | n/a               |
| Max. RPM (FC5916/FC5916R) | 16,000 /16,000    |
| Quantity in Package       | n/a               |
| Max. RCF                  | 24,325/24,325 x g |
| Tube Specifications       |                   |
| Tube Type                 | 8-w PCR Strip     |
| Tube volume               | n/a               |
| Tubes per Rotor           | 24                |
| Max. Tube Diameter (mm)   | n/a               |
| Tube Height (mm)          | n/a               |

### Rotors for FRONTIER™ FC5916 and FC5916R














| Swing Out Rotor 4 x 750 ml ID |                  |
|-------------------------------|------------------|
| Item No.                      | 30553085         |
| Rotor Capacity                | 4 x 750 ml       |
| Rotor Type                    | Swing Out, 0-90° |
| Permissible Net Weight        | 4 x 995 g        |
| Lowest Temperatures           | 4°C              |



| Accessory Specifications   |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|---|---|
| Accessory Item No.         | 30553121  | 30553122*   | 30553123  | 30553124  | 30553125  | 30553126  | 30553127  | 30553128  |
| Accessory Type             | Bucket  | Lid assembly  | O-ring  | Rack  |   |   |   |   |
| Max. RPM (FC5916/FC5916R)  | 4,000/4,500   |   |   | 4,000/4,500   |   |   |   |   |
| Quantity in Package        | 2 /pk   |   | 10/pk   | 2 /pk   |   |   |   |   |
| Max. RCF (FC5916/FC5916 R) | 3,434 / 4,346 x g   | n/a   |   | 3,416 / 4,324 x g   | 3,380 / 4,278 x g   | 3,416/4,324 x g   |   |   |
| Tube Specifications        |  | n/a   |   |  |  |  |  |  |
| Tube Type                  | Flat Bottom   | n/a   |   | Conical Bottom  | Flat Bottom   | Conical Bottom  | Round Bottom  | Conical Bottom  |
| Tube volume                | 750 ml  | n/a   |   | 500 ml  | 250 ml  | 175 / 225 ml  | 100 ml  | 50 ml   |
| Tubes per Rotor            | 4   | n/a   |   | 4   |   |   | 12  | 20  |
| Max. Tube Diameter (mm)    | 99  | n/a   |   | 96  | 62  | 61  | 41  | 29  |
| Tube Height (mm)           | 152   | n/a   |   | 148   | 135   | 120-140   | 102-123   | 116   |

| Accessory Specifications   |   |   |   |   |   |   |   |   |  |
|----------------------------|---|---|---|---|---|---|---|---|--|
| Accessory Item No.         | 30553129  | 30553130  | 30553131  | 30553132  | 30553133  | 30553134  | 30553135  | 30553136  |  |
| Accessory Type             | Rack  |   |   | Rack  |   |   |   |   |  |
| Max. RPM (FC5916/FC5916R)  | 4,000/4,500   |   |   |   |   |   |   |   |  |
| Quantity in Package        | 2 /pk   |   |   |   |   |   |   |   |  |
| Max. RCF (FC5916/FC5916 R) | 3,416/4,324 x g   |   |   | 3,416 / 4,324 x g   | 3,434 / 4,346 x g   | 3,398 / 4,301 x g   | 3,363/4,256 x g   |   |  |
| Tube Specifications        |  |  |  |  |  |  |  |  |  |
| Tube Type                  | Conical Bottom  |   | Round Bottom  | Round Bottom  | Conical Bottom  |   | Round Bottom  |   |  |
| Tube volume                | 50 ml   |   |   | 30 ml   | 15 ml   |   |   | 10 ml   |  |
| Tubes per Rotor            | 20  | 28  |   | 32  | 56  | 68  | 72  | 84  |  |
| Max. Tube Diameter (mm)    | 29  |   |   | 26  | 17  |   |   | 16  |  |
| Tube Height (mm)           | 100-120   | 116   | 102-123   | 102-123   | 120   |   | 97-120  | 70-121  |  |

\*All racks are used with bucket 30553121 only

















## Rotors for FRONTIER™ FC5916 and FC5916R

| Accessory Specifications   |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|--|---|---|
| Accessory Item No.         | 30553138  | 30553139  | 30553140  | 30559377  | 30553104   | 30553105  | 30553117*   |
| Accessory Type             | Rack  |   |   |   | Bucket   | Holder  | Lid assembly  |
| Max. RPM (FC5916/FC5916R)  | 4,000/4,500   |   |   |   |  |   |   |
| Quantity in Package        | 2 /pk   |   |   |   |  |   |   |
| Max. RCF (FC5916/FC5916 R) | 3,345 / 4,233 × g   |   | 3,398 / 4,301 × g   | 3,363 / 4,256 × g   | 3,130 / 3,961 × g  | 3,345 / 4,233 × g   |   |
| Tube Specifications        |  |  |  |  | n/a  |   |   |
| Tube Type                  | Round Bottom  | Vacutainer / Sarstedt   |   | Sarstedt  | Microplate   | n/a   |   |
| Tube volume                | 7 ml  | 1.8-7 ml  | 4- 10 ml  | 1.1-1.4 ml  | n/a  |   |   |
| Tubes per Rotor            | 128   | 108   | 72  | 152   | 12 Standard Microplates or 4 Deepwell Plates                                       | n/a   |   |
| Max. Tube Diameter (mm)    | 13  |   | 16  | 8   | 87 × 128   | n/a   |   |
| Tube Height (mm)           | 98-119  | 65-100  | 75-100  | 66  | 80   | n/a   |   |


| Accessory Specifications  |  |  |
|---------------------------|---|---|
| Accessory Item No.        | 30553118  | 30553119  |
| Accessory Type            | O-ring  | Bucket  |
| Max. RPM (FC5916/FC5916R) | 4,000/4,500   |   |
| Quantity in Package       | 10 /pk  | 2 /pk   |
| Max. RCF (FC5916/FC5916R) | n/a   | 2,754/3,486 × g   |
| Tube Specifications       | n/a   |   |
| Tube Type                 | n/a   | Microplate  |
| Tube volume               | n/a   | n/a   |
| Tubes per Rotor           | n/a   | 12 Standard Microplates or 4 Deepwell Plates  |
| Max. Tube Diameter (mm)   | n/a   | 87 × 128  |
| Tube Height (mm)          | 75-100  | 72  |

\* BIOSEALS certified: When using the Lid Assembly(with 1 EA O-ring ) on the rotor, the buckets are hermetically sealed. O-ring should be changed when it's worn






## Rotors for FRONTIER™ FC5916 and FC5916R


|  | Angle Rotor 4 x 500 ml ID   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
|   | Item No.  | 30553086  |   |   |   |   |   |   |
|   | Rotor Capacity  | 4 × 500 ml  |   |   |   |   |   |   |
|   | Rotor Type  | Angle, 24°  |   |   |   |   |   |   |
|   | Permissible Net Weight  | 4 × 708 g   |   |   |   |   |   |   |
|   | Lowest Temperatures   | 0 °C  |   |   |   |   |   |   |
| Accessory Specifications  | n/a   |  |  |  |  |  |  |  |
| Accessory Item No.  | n/a   | 30559416  | 30559417  | 30559419  | 30559420  | 30559421  | 30559422  | 30564850  |
| Accessory Type  | n/a   | Adapter   |   |   |   |   |   |   |
| Max. RPM (FC5916/FC5916R)   | 8,000/8,000   |   |   |   |   |   |   |   |
| Quantity in Package   | n/a   | 2 /pk   |   |   |   |   |   |   |
| Max. RCF (FC5916/FC5916R)   | 10,374 × g  | 9014 / 9014 × g   | 9,587 / 9,587 × g   | 8,871 / 8,871 × g   | 10,231 / 10,231 × g   | 9,873/9,873 × g   |   | 9,801 / 9,801 × g   |
| Tube Specifications   |  |  |  |  |  |  |  |  |
| Tube Type   | Round / Conical Bottom  | Conical Bottom  |   |   | Round Bottom  |   | Conical Bottom  | Flat Bottom   |
| Tube volume   | 500 ml  | 250 ml  | 175-225 ml  | 50 ml   |   | 30 ml   | 15 ml   | 250 ml  |
| Tubes per Rotor   | 4   |   |   |   |   |   | 12  | 6   |
| Max. Tube Diameter (mm)   | 96  | 60.5  | 61.5  | 29.5  | 29  | 25.5  | 17  | 61.5  |
| Tube Height (mm)  | n/a   | 171   | 118/137   | 115   | 103   | 92  | 120   | 195   |

**Rotors for FRONTIER™ FC5816 and FC5816R**














| Angle Rotor 24 x 1.5/2.0 ml BIOSEALS |                 |
|--------------------------------------|-----------------|
| Item No.                             | 30304361        |
| Rotor Capacity                       | 24 x 1.5/2.0 ml |
| Rotor Type                           | Angle, 45°      |
| Permissible Net Weight               | 24 x 3.4 g      |
| Lowest Temperatures                  | 3°C             |

| Accessory Specifications  | n/a   |  |  |
|---------------------------|---|---|---|
| Accessory Item No.        | n/a   | 30130884  | 30130885  |
| Accessory Type            | n/a   | Adapter   |   |
| Max. RPM (FC5816/FC5816R) | 15,000/16,000   |   |   |
| Quantity in Package       | n/a   | 6/pk  |   |
| Max. RCF                  | 21,379/24,325 x g   | 18,864/21,463 x g   | 20,624/23,466 x g   |
| Tube Specifications       |  |  |  |
| Tube Type                 | Micro Tube  |   |   |
| Tube volume               | 1.5/2.0 ml  | 0.2/0.4 ml  | 0.5 ml  |
| Tubes per Rotor           | 24  |   |   |
| Max. Tube Diameter (mm)   | 11  | 6   | 8   |
| Tube Height (mm)          | 40  | 20  | 30  |



























| Swing Out Rotor 4 x 250 ml |                  |
|----------------------------|------------------|
| Item No.                   | 30314820         |
| Rotor Capacity             | 4 x 250 ml       |
| Rotor Type                 | Swing Out, 0-90° |
| Permissible Net Weight     | 4 x 536 g        |
| Lowest Temperatures        | -2°C             |

| Accessory Specifications  |  |  |  |   |   |  |  |
|---------------------------|---|---|---|--|---|---|---|
| Accessory Item No.        | 30314901  | 30314902  | 30304367  | 30304368*  | 30314903  | 30314904  | 30314905  |
| Accessory Type            | Screw Cap   | O-Ring  | Rack  | Adapter  | Rack  |   |   |
| Max. RPM (FC5816/FC5816R) | 4,500/4,500   |   |   |  |   |   |   |
| Quantity in Package       | 2/pk  | 10/pk   | 2/pk  |  |   |   |   |
| Max. RCF                  | n/a   | 3,689 x g   | 3,554 x g   |  | 3,599 x g   | 3,689 x g   |   |
| Tube Specifications       | n/a   |  |  |  |  |   |   |
| Tube Type                 | n/a   | Vacutainer  | Micro Tube  | Flat Bottom  | Round Bottom  |   |   |
| Tube volume               | n/a   | 4-10 ml   | 1.5/2.0 ml  | 250 ml   | 100 ml  | 50 ml   |   |
| Tubes per Rotor           | n/a   | 32  | 36  | 4  |   | 12  |   |
| Max. Tube Diameter (mm)   | n/a   | 16  | 11  | 62   | 41  | 29  |   |
| Tube Height (mm)          | n/a   | 75/100  | 42  | 110/130  | 95/120  |   |   |

\*Only possible with Rack 30314903




















**Rotors for FRONTIER™ FC5816 and FC5816R**

| Accessory Specifications  |  |  |  |  |  |  |  |
|---------------------------|---|---|---|---|---|---|---|
| Accessory Item No.        | 30314906  | 30314907  | 30314908  | 30314909  | 30314910  | 30314911  | 30314912  |
| Accessory Type            | Rack  |   |   |   |   |   |   |
| Max. RPM (FC5816/FC5816R) | 4,500/4,500   |   |   |   |   |   |   |
| Quantity in Package       | 2/pk  |   |   |   |   |   |   |
| Max. RCF                  | 3,780 x g   | 3,576 x g   |   | 3,644 x g   |   | 3,508 x g   | 3,689 x g   |
| Tube Specifications       |  |  |  |  |  |  |  |
| Tube Type                 | Falcon  | Round Bottom  | Skirted Conical   |   | Round Bottom  | Skirted Conical   | Round Bottom  |
| Tube volume               | 50 ml   |   |   |   | 25 ml   |   | 15 ml   |
| Tubes per Rotor           | 12  | 4   | 8   | 4   | 20  | 12  | 36  |
| Max. Tube Diameter (mm)   | 29  | 34  | 29  |   | 24.5  |   | 17  |
| Tube Height (mm)          | 100/120   |   |   | 116   | 100/120   | 85/100  | 76/115  |

| Accessory Specifications  |  |  |  |  |  |
|---------------------------|---|---|---|---|---|
| Accessory Item No.        | 30314913  | 30314914  | 30314915  | 30314916  | 30314917  |
| Accessory Type            | Rack  |   |   |   |   |
| Max. RPM (FC5816/FC5816R) | 4,500/4,500   |   |   |   |   |
| Quantity in Package       | 2/pk  |   |   |   |   |
| Max. RCF                  | 3,712 x g   | 3,644 x g   | 3,689 x g   | 3,599 x g   |   |
| Tube Specifications       |  |  |  |  |  |
| Tube Type                 | Falcon  | Skirted Conical   | Round Bottom  |   | Vacutainer  |
| Tube Volume               | 15 ml   |   | 10 ml   | 5-7 ml  | 1.6-7 ml  |
| Tubes per Rotor           | 28  | 32  | 56  | 40  |   |
| Max. Tube Diameter (mm)   | 17  |   | 16  | 13  |   |
| Tube Height (mm)          | 95/120  | 100/120   | 80/100  | 65/120  | 75/120  |






| Angle Rotor 6 x 250 ml |            |
|------------------------|------------|
| Item No.               | 30314821   |
| Rotor Capacity         | 6 x 250 ml |
| Rotor Type             | Angle, 28° |
| Permissible Net Weight | 6 x 355 g  |
| Lowest Temperatures    | 3°C        |
















| Accessory Specifications  | n/a   |  |  |  |  |  |  |  |  |  |
|---------------------------|---|---|---|---|---|---|---|---|---|---|
| Accessory Item No.        | n/a   | 30304369  | 30304370  | 30304371  | 30304372  | 30304373  | 30304374  | 30559412  | 30559413  | 30559414  |
| Accessory Type            | n/a   | Adapter   |   |   |   |   |   |   |   |   |
| Max. RPM (FC5816/FC5816R) | 8,000/8,000   |   |   |   |   |   |   |   |   |   |
| Quantity in Package       | n/a   | 2 /pk   |   |   |   |   |   | 3 /pk   | 2 /pk   |   |
| Max. RCF                  | 10,016 x g  | 9,444 x g   | 9,515 x g   | 9,301 x g   | 8,943 x g   | 8,585 x g   | 8,371 x g   | 9444 x g  | 10,016 x g  |   |
| Tube Specifications       |  |  |  |  |  |  |  |  |  |  |
| Tube Type                 | Flat Bottom   | Micro Tube  | Round Bottom  | Falcon  | Round Bottom  | Falcon  | Micro Tube  |   | Conical Bottom  |   |
| Tube volume               | 250 ml  | 1.5/2.0 ml  | 10 ml   | 15 ml   | 30 ml   | 50 ml   |   | 1.5/2.0 ml  | 250 ml  | 175-225 ml  |
| Tubes per Rotor           | 6   | 48  | 30  | 24  | 12  | 6   |   | 90  | 6   |   |
| Max. Tube Diameter (mm)   | 62  | 11  | 16  | 17  | 26  | 29  | 30  | 11  | 60  | 61  |
| Tube Height (mm)          | 140   | 42  | 80  | 120   | 92  | 103   | 118   | 42  | 118/137   | 159   |

## Rotors for FRONTIER™ FC5816 and FC5816R

| Swing Out Rotor 2 × 3 MTP w/Bucket |                  |
|------------------------------------|------------------|
| Item No.                           | 30314824         |
| Rotor Capacity                     | 2 × 3 MTP        |
| Rotor Type                         | Swing Out, 0-90° |
| Permissible Net Weight             | 2 × 310 g        |
| Lowest Temperatures                | -3°C             |
















| Accessory Specifications |  |  |
|--------------------------|---|---|
| Accessory Item No.       | 30314890  | 30314891  |
| Accessory Type           | Bucket  | Adapter   |
| Max. RPM                 | 4,500   |   |
| Quantity in Package      | 2/pk  |   |
| Max. RCF                 | 2,716 x g   |   |
| Tube Specifications      | n/a   |  |
| Tube Type                | Microplate  | Microtube   |
| Tube volume              | MTP   | 1.5/2.0 ml  |
| Tubes per Rotor          | 6 Standard Microplates or 2 Deepwell Plates                                       | 96  |
| Max. Tube Diameter (mm)  | 87 x 128  | 11  |
| Tube Height (mm)         | 51  | 42  |

| Angle Rotor 6 × 85 ml  |            |
|------------------------|------------|
| Item No.               | 30314826   |
| Rotor Capacity         | 6 × 85ml   |
| Rotor Type             | Angle, 38° |
| Permissible Net Weight | 6 × 140 g  |
| Lowest Temperatures    | 15°C       |

| Accessory Specifications  | n/a   |  |  |  |  |  |  |  |
|---------------------------|---|---|---|---|---|---|---|---|
| Accessory Item No.        | n/a   | 30314893  | 30314894  | 30314895  | 30314896  | 30314897  | 30314898  | 30314899  |
| Accessory Type            | n/a   | Adapter   |   |   |   |   |   |   |
| Max. RPM (FC5816/FC5816R) | 11,000/13,000   |   |   |   |   |   |   |   |
| Quantity in Package       | n/a   | 2/pk  |   |   |   |   |   |   |
| Max. RCF                  | 15,555 /21,762 x g  | 14,338 /20,025 x g  | 14,067 /19,647 x g  | 14,743 /20,592 x g  | 14,338 /20,025 x g  | 14,067 /19,647 x g  | 15,014 /20,970 x g  | 14,067 /19,647 x g  |
| Tube Specifications       |  |  |  |  |  |  |  |  |
| Tube Type                 | Round Bottom  |   |   |   | Falcon  | Round Bottom  |   |   |
| Tube volume               | 85 ml   | 15 ml   | 30 ml   | 50 ml   | 15 ml   | 16 ml   |   |   |
| Tubes per Rotor           | 6   |   |   |   |   |   | 12  | 6   |
| Max. Tube Diameter (mm)   | 38  | 17  | 25  | 29  | 17  | 18  |   |   |
| Tube Height (mm)          | 113   | 103/110   | 90/103  | 105   | 118   | 120   | 95/100  | 103/110   |









## Rotors for FRONTIER™ FC5816 and FC5816R

| Angle Rotor 4 × 85 ml  |            |
|------------------------|------------|
| Item No.               | 30314827   |
| Rotor Capacity         | 4 × 85 ml  |
| Rotor Type             | Angle, 30° |
| Permissible Net Weight | 4 × 140 g  |
| Lowest Temperatures    | 5°C        |

| Accessory Specifications  | n/a   |  |  |  |  |  |  |  |
|---------------------------|---|---|---|---|---|---|---|---|
| Accessory Item No.        | n/a   | 30314893  | 30314894  | 30314895  | 30314896*   | 30314897*   | 30314898  | 30314899  |
| Accessory Type            | n/a   | Adapter   |   |   |   |   |   |   |
| Max. RPM (FC5816/FC5816R) | 12,000/12,000   |   |   |   |   |   |   |   |
| Quantity in Package       | n/a   | 2/pk  |   |   |   |   |   |   |
| Max. RCF                  | 14,809 x g  | 13,682 x g  | 13,521 x g  | 14,326 x g  | 13,843 x g  | 13,360 x g  | 12,073 x g  | 13,360 x g  |
| Tube Specifications       |  |  |  |  |  |  |  |  |
| Tube Type                 | Round Bottom  |   |   |   | Falcon  | Round Bottom  |   |   |
| Tube volume               | 85 ml   | 15 ml   | 30 ml   | 50 ml   | 15 ml   | 16 ml   |   |   |
| Tubes per Rotor           | 4   |   |   |   | 8   | 4   |   |   |
| Max. Tube Diameter (mm)   | 38  | 17  | 25  | 29  | 17  | 18  |   |   |
| Tube Height (mm)          | 113   | 103/110   | 90/103  | 105   | 118   | 120   | 95/100  | 103/110   |

\*Only without rotor lid

| Swing Out Rotor 16 × 50 ml |                  |
|----------------------------|------------------|
| Item No.                   | 30314828         |
| Rotor Capacity             | 16 × 50 ml       |
| Rotor Type                 | Swing Out, 0-90° |
| Permissible Net Weight     | 4 × 557 g        |
| Lowest Temperatures        | 2°C              |

| Accessory Specifications  |  |  |  |  |
|---------------------------|---|---|---|---|
| Accessory Item No.        | 30304375  | 30314583  | 30314584  | 30314585  |
| Accessory Type            | Rack  |   |   |   |
| Max. RPM (FC5816/FC5816R) | 4,500/4,500   |   |   |   |
| Quantity in Package       | 2/pk  |   |   |   |
| Max. RCF                  | 3,735 x g   |   | 3,599 x g   | 3,531 x g   |
| Tube Specifications       |  |  |  |  |
| Tube Type                 | Falcon  |   | Vacutainer/Sarstedt   |   |
| Tube Volume               | 50 ml   | 15 ml   | 5-7 ml  | 4-10 ml   |
| Tubes per Rotor           | 16  | 40  | 56  | 48  |
| Max. Tube Diameter (mm)   | 29  | 17  | 13  | 16  |
| Tube Height (mm)          | 116   | 120   | 75/100  |   |



## Rotors for FRONTIER™ FC5816 and FC5816R



| Angle Rotor 10 x 50 ml |            |
|------------------------|------------|
| Item No.               | 30314829   |
| Rotor Capacity         | 10 x 50 ml |
| Rotor Type             | Angle, 38° |
| Permissible Net Weight | 10 x 74 g  |
| Lowest Temperatures    | 9°C        |

| Accessory Specifications  | n/a         |            |              |           |                   |                   |
|---------------------------|-------------|------------|--------------|-----------|-------------------|-------------------|
| Accessory Item No.        | n/a         | 30130886*  | 30130889*    | 30130890* | 30472300          | 30472307          |
| Accessory Type            | n/a         | Adapter    |              |           |                   |                   |
| Max. RPM (FC5816/FC5816R) | 7,500/7,500 |            |              |           |                   |                   |
| Quantity in Package       | n/a         | 6/pk       | 2/pk         |           |                   |                   |
| Max. RCF                  | 8,174 x g   | 5,596 x g  | 7,671 x g    | 6,539 x g | 11,318/15,406 x g | 11,590/15,776 x g |
| Tube Specifications       |             |            |              |           |                   |                   |
| Tube Type                 | Falcon      | Micro Tube | Round Bottom |           |                   | Conical           |
| Tube Volume               | 50 ml       | 1.5/2.0 ml | 7 ml         | 5 ml      | 15 ml             |                   |
| Tubes per Rotor           | 10          |            |              |           |                   |                   |
| Max. Tube Diameter (mm)   | 29          | 11         | 13.5         |           |                   | 17                |
| Tube Height (mm)          | 118         | 42         | 100          | 100       | 97-123            | 120               |

\*Only possible with adapter 30472300 or 30472307



| Angle Rotor 6 x 50 ml  |            |
|------------------------|------------|
| Item No.               | 30314831   |
| Rotor Capacity         | 6 x 50 ml  |
| Rotor Type             | Angle, 26° |
| Permissible Net Weight | 6 x 94 g   |
| Lowest Temperatures    | -5 °C      |

| Accessory Specifications  | n/a                   |              |            |            |            |
|---------------------------|-----------------------|--------------|------------|------------|------------|
| Accessory Item No.        | n/a                   | 30130891     | 30130892   | 30130893   | 30314892*  |
| Accessory Type            | n/a                   | Adapter      |            |            |            |
| Max. RPM (FC5816/FC5816R) | 12,000/12,000         |              |            |            |            |
| Quantity in Package       | n/a                   | 2/pk         |            |            |            |
| Max. RCF                  | 15,869 x g            | 14,924 x g   | 12,717 x g | 15,113 x g | 14,546 x g |
| Tube Specifications       |                       |              |            |            |            |
| Tube Type                 | Round Bottom Oakridge | Round Bottom |            |            | Falcon     |
| Tube Volume               | 50 ml                 | 30 ml        | 16 ml      | 15 ml      |            |
| Tubes per Rotor           | 6                     |              |            |            |            |
| Max. Tube Diameter (mm)   | 29                    | 26           | 18         | 17         | 17.5       |
| Tube Height (mm)          | 95/115                | 100          | 100/105    |            | 116/125    |

\*Only without bucket lid

## Rotors for FRONTIER™ FC5816 and FC5816R



| Angle Rotor 30 x 15 ml |            |
|------------------------|------------|
| Item No.               | 30314832   |
| Rotor Capacity         | 30 x 15 ml |
| Rotor Type             | Angle, 35° |
| Permissible Net Weight | 30 x 32 g  |
| Lowest Temperatures    | -12°C      |


| Accessory Specifications  | n/a                 |            |              |           |
|---------------------------|---------------------|------------|--------------|-----------|
| Accessory Item No.        | n/a                 | 30130886   | 30130889     | 30130890  |
| Accessory Type            | n/a                 | Adapter    |              |           |
| Max. RPM (FC5816/FC5816R) | 4,500/4,500         |            |              |           |
| Quantity in Package       | n/a                 | 6/pk       | 2/pk         |           |
| Max. RCF                  | 2,830 x g           | 2,038 x g  | 2,762 x g    | 2,377 x g |
| Tube Specifications       |                     |            |              |           |
| Tube Type                 | Round Bottom/Falcon | Micro Tube | Round Bottom |           |
| Tube Volume               | 15 ml               | 1.5/2.0 ml | 7 ml         | 5 ml      |
| Tubes per Rotor           | 30                  |            |              |           |
| Max. Tube Diameter (mm)   | 17                  | 11         | 13.5         |           |
| Tube Height (mm)          | 95/115              | 42         | 100          | 65/75     |









| Angle Rotor 20 x 10 ml |            |
|------------------------|------------|
| Item No.               | 30314833   |
| Rotor Capacity         | 20 x 10 ml |
| Rotor Type             | Angle, 30° |
| Permissible Net Weight | 20 x 18 g  |
| Lowest Temperatures    | 0°C        |






\*No Adapters

**Rotors for FRONTIER™ FC5816 and FC5816R**


|  | Angle Rotor 44 x 1.5/2.0 ml |                 |  |
|--|-----------------------------|-----------------|--|
|  | Item No.                    | 30314835        |  |
|  | Rotor Capacity              | 44 x 1.5/2.0 ml |  |
|  | Rotor Type                  | Angle, 30°/55°  |  |
|  | Permissible Net Weight      | 44 x 3.8 g      |  |
|  | Lowest Temperatures         | 8°C             |  |






| Accessory Specifications  | n/a   |  |  |
|---------------------------|---|---|---|
| Accessory Item No.        | n/a   | 30130884  | 30130885  |
| Accessory Type            | n/a   | Adapter   |   |
| Max. RPM (FC5816/FC5816R) | 15,000/16,000   |   |   |
| Quantity in Package       | n/a   | 6/pk  |   |
| Max. RCF                  | 21,128/24,039 x g   | 19,367/22,035 x g   | 20,625/23,467 x g   |
| Tube Specifications       |  |  |  |
| Tube Type                 | Micro Tube  |   |   |
| Tube volume               | 1.5/2.0 ml  | 0.2/0.4 ml  | 0.5 ml  |
| Tubes per Rotor           | 44  |   |   |
| Max. Tube Diameter (mm)   | 11  | 6   | 8   |
| Tube Height (mm)          | 40  | 20  | 30  |


|  | Angle Rotor 24 x 1.5/2.0 ml |                 |  |
|---|-----------------------------|-----------------|--|
|   | Item No.                    | 30314838        |  |
|   | Rotor Capacity              | 24 x 1.5/2.0 ml |  |
|   | Rotor Type                  | Angle, 45°      |  |
|   | Permissible Net Weight      | 24 x 3.4 g      |  |
|   | Lowest Temperatures         | 3°C             |  |















| Accessory Specifications  | n/a   |  |  |
|---------------------------|---|---|---|
| Accessory Item No.        | n/a   | 30130884  | 30130885  |
| Accessory Type            | n/a   | Adapter   |   |
| Max. RPM (FC5816/FC5816R) | 15,000/16,000   |   |   |
| Quantity in Package       | n/a   | 6/pk  |   |
| Max. RCF                  | 21,379/24,325 x g   | 18,864/21,463 x g   | 20,624/23,466 x g   |
| Tube Specifications       |  |  |  |
| Tube Type                 | Micro Tube  |   |   |
| Tube volume               | 1.5/2.0 ml  | 0.2/0.4 ml  | 0.5 ml  |
| Tubes per Rotor           | 24  |   |   |
| Max. Tube Diameter (mm)   | 11  | 6   | 8   |
| Tube Height (mm)          | 40  | 20  | 30  |

**Rotors for FRONTIER™ FC5718 and FC5718R**














|  | Angle Rotor 24 x 1.5/2.0 ml BIOSEALS |                 |  |
|---|--------------------------------------|-----------------|--|
|   | Item No.                             | 30304361        |  |
|   | Rotor Capacity                       | 24 x 1.5/2.0 ml |  |
|   | Rotor Type                           | Angle, 45°      |  |
|   | Permissible Net Weight               | 24 x 3.4 g      |  |
|   | Lowest Temperatures                  | 6°C             |  |







| Accessory Specifications  | n/a   |  |  |
|---------------------------|---|---|---|
| Accessory Item No.        | n/a   | 30130884  | 30130885  |
| Accessory Type            | n/a   | Adapter   |   |
| Max. RPM (FC5718/FC5718R) | 14,000/15,000   |   |   |
| Quantity in Package       | n/a   | 6/pk  |   |
| Max. RCF                  | 18,624/21,379 x g   | 16,433/18,863 x g   | 17,967/20,624 x g   |
| Tube Specifications       |  |  |  |
| Tube Type                 | Micro Tube  |   |   |
| Tube volume               | 1.5/2.0 ml  | 0.2/0.4 ml  | 0.5 ml  |
| Tubes per Rotor           | 24  |   |   |
| Max. Tube Diameter (mm)   | 11  | 6   | 8   |
| Tube Height (mm)          | 40  | 20  | 30  |

|  | Swing Out Rotor 4 x 100 ml |                  |  |
|--|----------------------------|------------------|--|
|  | Item No.                   | 30314822         |  |
|  | Rotor Capacity             | 4 x 100 ml       |  |
|  | Rotor Type                 | Swing Out, 0-90° |  |
|  | Permissible Net Weight     | 4 x 340 g        |  |
|  | Lowest Temperature         | n/a              |  |











| Accessory Specifications |  |  |  |  |  |  |  |
|--------------------------|---|---|---|---|---|---|---|
| Accessory Item No.       | 30314842  | 30314843  | 30314844  | 30314845  | 30314846  | 30314847  | 30314848  |
| Accessory Type           | Rack  |   |   |   |   |   |   |
| Max. RPM                 | 4,500   |   |   |   |   |   |   |
| Quantity in Package      | 2/pk  |   |   |   |   |   |   |
| Max. RCF                 | 3,192 x g   |   | 3,214 x g   |   | 3,192 x g   | 3,237 x g   | 3,213 x g   |
| Tube Specifications      |  |  |  |  |  |  |  |
| Tube Type                | Round Bottom  |   |   |   | Falcon  | Skirted Conical   |   |
| Tube volume              | 100 ml  | 85 ml   | 50 ml   |   | 30 ml   |   |   |
| Tubes per Rotor          | 4   |   |   |   |   |   |   |
| Max. Tube Diameter (mm)  | 46  | 38  | 34  | 29  |   | 25  |   |
| Tube Height (mm)         | 90/108  | 92/118  |   | 90/118  | 116   |   | 95/105  |

## Rotors for FRONTIER™ FC5718 and FC5718R















| Accessory Specifications |  |  |  |  |  |  |  |
|--------------------------|---|---|---|---|--|---|---|
| Accessory Item No.       | 30314849  | 30314850  | 30314851  | 30314852  | 30314853   | 30314854  | 30314855  |
| Accessory Type           | Rack  |   |   |   |  |   |   |
| Max. RPM                 | 4,500   |   |   |   |  |   |   |
| Quantity in Package      | 2/pk  |   |   |   |  |   |   |
| Max. RCF                 | 3,259 x g   | 3,350 x g   | 3,282 x g   |   | 3,214 x g  | 2,241 x g   | 3,169 x g   |
| Tube Specifications      |  |  |  |  |  |  |  |
| Tube Type                | Round Bottom  | Falcon  | Skirted Conical   | Round Bottom  |  | Micro Tube  | Flat Bottom   |
| Tube volume              | 25 ml   | 15 ml   |   |   | 5-7 ml   | 1.5 ml  | 4.5 ml  |
| Tubes per Rotor          | 4   | 8   | 4   | 28  | 36   | 40  | 36  |
| Max. Tube Diameter (mm)  | 17  |   |   | 13  | 11   | 12  | 13  |
| Tube Height (mm)         | 95/105  | 120   |   | 90/108  | 75/100   | 42  | 75/100  |















| Accessory Specifications |  |  |  |
|--------------------------|---|---|---|
| Accessory Item No.       | 30314856  | 30314857  | 30314858  |
| Accessory Type           | Rack  |   |   |
| Max. RPM                 | 4,500   |   |   |
| Quantity in Package      | 2/pk  |   |   |
| Max. RCF                 | 2,626 x g   | 3,214 x g   | 3,237 x g   |
| Tube Specifications      |  |  |  |
| Tube Type                | Round Bottom  | Vacutainer  | Sarstedt  |
| Tube Volume              | 5-7 ml  |   | 4-10 ml   |
| Tubes per Rotor          | 28  |   | 20  |
| Max. Tube Diameter (mm)  | 13  |   | 16  |
| Tube Height (mm)         | 65/80   |   | 75/100  |





| Swing Out Rotor 4 x 100 ml Sealable |                  |
|-------------------------------------|------------------|
| Item No.                            | 30314823         |
| Rotor Capacity                      | 4 x 100 ml       |
| Rotor Type                          | Swing Out, 0-90° |
| Permissible Net Weight              | 4 x 465 g        |
| Lowest Temperatures                 | -3 °C            |

| Accessory Specifications  |  |  |  |  |   |  |  |
|---------------------------|---|---|---|---|---|---|---|
| Accessory Item No.        | 30314860  | 30314861  | 30314862  | 30314863  | 30314864  | 30314865  | 30314866  |
| Accessory Type            | Bucket  |   | Screw Cap   | O-Ring  | Rack  |   |   |
| Max. RPM (FC5718/FC5718R) | 5,000/5,000   |   |   |   |   |   |   |
| Quantity in Package       | 2/pk  |   | 10/pk   | 2/pk  |   |   |   |
| Max. RCF                  | 3,779 x g   | n/a   |   | 3,672 x g   | 3,725 x g   |   |   |
| Tube Specifications       |  |   |   | n/a   |  |  |   |
| Tube Type                 | Round Bottom  |   |   |   |   |   |   |
| Tube volume               | 100 ml  |   |   | n/a   | 85 ml   | 50 ml   |   |
| Tubes per Rotor           | 4   |   |   |   |   |   |   |
| Max. Tube Diameter (mm)   | n/a   |   |   | 40  | 38  | 34  |   |
| Tube Height (mm)          | n/a   |   |   | 90/108  |   | 92/118  |   |

## Rotors for FRONTIER™ FC5718 and FC5718R

| Accessory Specifications  |  |  |  |  |  |  |  |
|---------------------------|---|---|---|---|---|---|---|
| Accessory Item No.        | 30314867  | 30314868  | 30314869  | 30314870  | 30314871  | 30314872  | 30314873*   |
| Accessory Type            | Rack  |   |   |   |   |   |   |
| Max. RPM (FC5718/FC5718R) | 5,000/5,000   |   |   |   |   |   |   |
| Quantity in Package       | 2/pk  |   |   |   |   |   |   |
| Max. RCF                  | 3,725 x g   | 3,751 x g   | 3,699 x g   | 3,486 x g   | 3,725 x g   | 3,752 x g   |   |
| Tube Specifications       |  |  |  |  |  |  |  |
| Tube Type                 | Round Bottom  | Falcon  | Skirted Conical   | Round Bottom  | Falcon  |   |   |
| Tube volume               | 50 ml   |   |   | 30 ml   | 25 ml   | 15 ml   |   |
| Tubes per Rotor           | 4   |   |   |   |   | 4   | 8   |
| Max. Tube Diameter (mm)   | 29  |   |   | 25  |   | 17  |   |
| Tube Height (mm)          | 90/113  | 116   |   | 95/105  | 95/110  | 120   |   |

| Accessory Specifications  |  |  |  |  |  |  |  |
|---------------------------|---|---|---|---|---|---|---|
| Accessory Item No.        | 30314874  | 30314875  | 30314876  | 30314877  | 30314878  | 30314879  | 30314880  |
| Accessory Type            | Rack  |   |   |   |   |   |   |
| Max. RPM (FC5718/FC5718R) | 5,000/5,000   |   |   |   |   |   |   |
| Qty in Package            | 2/pk  |   |   |   |   |   |   |
| Max. RCF                  | 3,725 x g   |   |   |   |   |   |   |
| Tube Specifications       |  |  |  |  |  |  |  |
| Tube Type                 | Skirted Conical   | Round Bottom  |   | Micro Tube  | Sarstedt  | Round Bottom  | Vacutainer  |
| Tube volume               | 15 ml   | 5-7 ml  |   | 1.5 ml  | 10 ml   | 5-7 ml  | 10 ml   |
| Tubes per Rotor           | 8   | 16  | 28  | 20  | 12  | 16  |   |
| Max. Tube Diameter (mm)   | 17  |   | 13  | 11  | 17  | 13  | 17  |
| Tube Height (mm)          | 120   | 90/108  | 75/100  | 42  | 85/100  | 75/100  |   |

| Accessory Specifications  |  |  |
|---------------------------|---|---|
| Accessory Item No.        | 30314881  | 30314882  |
| Accessory Type            | Bucket  |   |
| Max. RPM (FC5718/FC5718R) | 5,000/5,000   |   |
| Quantity in Package       | 2/pk  |   |
| Max. RCF                  | 3,885 x g   |   |
| Tube Specifications       |  |  |
| Tube Type                 | Falcon  |   |
| Tube volume               | 50 ml   | 15 ml   |
| Tubes per Rotor           | 8   | 12  |
| Max. Tube Diameter (mm)   | 29  | 17  |
| Tube Height (mm)          | 116   | 120   |

\*Only without bucket lid

## Rotors for FRONTIER™ FC5718 and FC5718R



| Swing Out Rotor 2 x 3 MTP w/Bucket |                  |
|------------------------------------|------------------|
| Item No.                           | 30314824         |
| Rotor Capacity                     | 2 x 3 MTP        |
| Rotor Type                         | Swing Out, 0-90° |
| Permissible Net Weight             | 2 x 310 g        |
| Lowest Temperatures                | -6 °C            |

### Accessory Specifications



|                     |           |          |
|---------------------|-----------|----------|
| Accessory Item No.  | 30314890  | 30314891 |
| Accessory Type      | Bucket    | Adapter  |
| Max. RPM            | 4,500     |          |
| Quantity in Package | 2/pk      |          |
| Max. RCF            | 2,716 x g |          |

### Tube Specifications

n/a



|                         |   |            |
|-------------------------|---|------------|
| Tube Type               | Microplate                                  | Microtube  |
| Tube volume             | MTP   | 1.5/2.0 ml |
| Tubes per Rotor         | 6 Standard Microplates or 2 Deepwell Plates | 96         |
| Max. Tube Diameter (mm) | 87 x 128                                    | 11         |
| Tube Height (mm)        | 51  | 42         |



### Angle Rotor 6 x 85 ml

|                        |            |
|------------------------|------------|
| Item No.               | 30314825   |
| Rotor Capacity         | 6 x 85 ml  |
| Rotor Type             | Angle, 25° |
| Permissible Net Weight | 6 x 140 g  |
| Lowest Temperatures    | 17 °C      |

### Accessory Specifications

n/a



|                           |                    |                    |          |                    |          |                    |                    |                    |
|---------------------------|--------------------|--------------------|----------|--------------------|----------|--------------------|--------------------|--------------------|
| Accessory Item No.        | n/a                | 30314893           | 30314894 | 30314895           | 30314896 | 30314897           | 30314898           | 30314899           |
| Accessory Type            | n/a                | Adapter            |          |                    |          |                    |                    |                    |
| Max. RPM (FC5718/FC5718R) | 11,000/13,500      |                    |          |                    |          |                    |                    |                    |
| Quantity in Package       | n/a                | 2/pk               |          |                    |          |                    |                    |                    |
| Max. RCF                  | 13,932 /20,984 x g | 12,985 /19,557 x g |          | 13,526 /20,372 x g |          | 12,579 /18,946 x g | 13,932 /20,984 x g | 12,850 /19,354 x g |

### Tube Specifications



|                         |              |         |        |        |              |       |        |         |
|-------------------------|--------------|---------|--------|--------|--------------|-------|--------|---------|
| Tube Type               | Round Bottom |         |        | Falcon | Round Bottom |       |        |         |
| Tube volume             | 85 ml        | 15 ml   | 30 ml  | 50 ml  | 15 ml        | 16 ml |        |         |
| Tubes per Rotor         | 6            |         |        |        | 12           | 6     |        |         |
| Max. Tube Diameter (mm) | 38           | 17      | 25     | 29     | 17           | 18    |        |         |
| Tube Height (mm)        | 113          | 103/110 | 90/103 | 105    | 118          | 120   | 95/100 | 103/110 |

## Rotors for FRONTIER™ FC5718 and FC5718R



### Angle Rotor 6 x 85 ml

|                        |            |
|------------------------|------------|
| Item No.               | 30314826   |
| Rotor Capacity         | 6 x 85 ml  |
| Rotor Type             | Angle, 38° |
| Permissible Net Weight | 6 x 140 g  |
| Lowest Temperatures    | -5 °C      |

### Accessory Specifications

n/a



|                           |             |           |           |           |           |           |            |           |
|---------------------------|-------------|-----------|-----------|-----------|-----------|-----------|------------|-----------|
| Accessory Item No.        | n/a         | 30314893  | 30314894  | 30314895  | 30314896  | 30314897  | 30314898   | 30314899  |
| Accessory Type            | n/a         | Adapter   |           |           |           |           |            |           |
| Max. RPM (FC5718/FC5718R) | 9,000/9,000 |           |           |           |           |           |            |           |
| Quantity in Package       | n/a         | 2/pk      |           |           |           |           |            |           |
| Max. RCF                  | 10,413 x g  | 9,598 x g | 9,417 x g | 9,870 x g | 9,598 x g | 9,417 x g | 10,051 x g | 9,417 x g |

|                         |              |         |        |        |              |       |        |         |
|-------------------------|--------------|---------|--------|--------|--------------|-------|--------|---------|
| Tube Type               | Round Bottom |         |        | Falcon | Round Bottom |       |        |         |
| Tube volume             | 85 ml        | 15 ml   | 30 ml  | 50 ml  | 15 ml        | 16 ml |        |         |
| Tubes per Rotor         | 6            |         |        |        | 12           | 6     |        |         |
| Max. Tube Diameter (mm) | 38           | 17      | 25     | 29     | 17           | 18    |        |         |
| Tube Height (mm)        | 113          | 103/110 | 90/103 | 105    | 118          | 120   | 95/100 | 103/110 |



### Angle Rotor 4 x 85 ml

|                        |            |
|------------------------|------------|
| Item No.               | 30314827   |
| Rotor Capacity         | 4 x 85 ml  |
| Rotor Type             | Angle, 30° |
| Permissible Net Weight | 4 x 140 g  |
| Lowest Temperatures    | 5 °C       |

### Accessory Specifications

n/a




|                           |               |            |            |            |            |            |            |            |
|---------------------------|---------------|------------|------------|------------|------------|------------|------------|------------|
| Accessory Item No.        | n/a           | 30314893   | 30314894   | 30314895   | 30314896*  | 30314897*  | 30314898   | 30314899   |
| Accessory Type            | n/a           | Adapter    |            |            |            |            |            |            |
| Max. RPM (FC5718/FC5718R) | 12,000/12,000 |            |            |            |            |            |            |            |
| Quantity in Package       | n/a           | 2/pk       |            |            |            |            |            |            |
| Max. RCF                  | 14,809 x g    | 13,682 x g | 13,521 x g | 14,326 x g | 13,843 x g | 13,360 x g | 12,073 x g | 13,360 x g |












|                         |              |         |        |        |              |       |        |         |
|-------------------------|--------------|---------|--------|--------|--------------|-------|--------|---------|
| Tube Type               | Round Bottom |         |        | Falcon | Round Bottom |       |        |         |
| Tube volume             | 85 ml        | 15 ml   | 30 ml  | 50 ml  | 15 ml        | 16 ml |        |         |
| Tubes per Rotor         | 4            |         |        |        | 12           | 6     |        |         |
| Max. Tube Diameter (mm) | 38           | 17      | 25     | 29     | 17           | 18    |        |         |
| Tube Height (mm)        | 113          | 103/110 | 90/103 | 105    | 118          | 120   | 95/100 | 103/110 |

\*Only without rotor lid


### Rotors for FRONTIER™ FC5718 and FC5718R


















| Angle Rotor 10 x 50 ml |            |
|------------------------|------------|
| Item No.               | 30314829   |
| Rotor Capacity         | 10 x 50 ml |
| Rotor Type             | Angle, 38° |
| Permissible Net Weight | 10 x 74 g  |
| Lowest Temperatures    | 9 °C       |

| Accessory Specifications  | n/a   |  |  |  |  |  |
|---------------------------|---|---|---|--|---|---|
| Accessory Item No.        | n/a   | 30130886*   | 30130889*   | 30130890*  | 30472300  | 30472307  |
| Accessory Type            | n/a   | Adapter   |   |  |   |   |
| Max. RPM (FC5718/FC5718R) | 7,500/7,500   |   |   |  |   |   |
| Quantity in Package       | n/a   | 6/pk  | 2/pk  |  |   |   |
| Max. RCF                  | 8,174 x g   | 5,596 x g   | 7,671 x g   | 6,539 x g  | 7860 x g  | 8048 x g  |
| Tube Specifications       |  |  |  |   |  |  |
| Tube Type                 | Falcon  | Micro Tube  | Round Bottom  |  |   | Conical   |
| Tube Volume               | 50 ml   | 1.5/2.0 ml  | 7 ml  | 5 ml   | 15 ml   |   |
| Tubes per Rotor           | 10  |   |   |  |   |   |
| Max. Tube Diameter (mm)   | 29  | 11  | 13.5  |  |   | 17  |
| Tube Height (mm)          | 118   | 42  | 100   | 100  | 97-123  | 120   |


\*Only possible with adapter 30472300 or 30472307












| Angle Rotor 6 x 50 ml  |            |
|------------------------|------------|
| Item No.               | 30314830   |
| Rotor Capacity         | 6 x 50 ml  |
| Rotor Type             | Angle, 40° |
| Permissible Net Weight | 6 x 72 g   |
| Lowest Temperatures    | -8 °C      |

| Accessory Specifications  | n/a   |  |  |  |    |  |  |  |
|---------------------------|---|---|---|---|---|---|---|---|
| Accessory Item No.        | n/a   | 30130886  | 30130891  | 30130890  | 30130891  | 30130892  | 30130893  | 30130892  |
| Accessory Type            | n/a   | Adapter   |   |   |   |   |   |   |
| Max. RPM (FC5718/FC5718R) | 6,000/6,000   |   |   |   |   |   |   |   |
| Quantity in Package       | n/a   | 6/pk  | 2/pk  |   |   |   |   |   |
| Max. RCF                  | 4,427 x g   | 2,696 x g   | 4,105 x g   | 3,340 x g   | 4,306 x g   | 4,145 x g   | 4,266 x g   |   |
| Tube Specifications       |  |  |  |  |  |  |  |  |
| Tube Type                 | Round Bottom/<br>Falcon   | Micro Tube  | Round Bottom  |   |   |   |   |   |
| Tube volume               | 50 ml   | 15 ml   | 30 ml   | 50 ml   |   | 15 ml   | 16 ml   |   |
| Tubes per Rotor           | 6   |   |   |   |   |   |   |   |
| Max. Tube Diameter (mm)   | 29  | 11  | 13.5  |   | 26  | 17  | 18  |   |
| Tube Height (mm)          | 116   | 42  | 26  | 65/75   | 100   | 100/105   |   | 120   |


### Rotors for FRONTIER™ FC5718 and FC5718R










| Angle Rotor 6 x 50 ml  |            |
|------------------------|------------|
| Item No.               | 30314831   |
| Rotor Capacity         | 6 x 50 ml  |
| Rotor Type             | Angle, 26° |
| Permissible Net Weight | 6 x 94 g   |
| Lowest Temperatures    | -5 °C      |

| Accessory Specifications  | n/a   |  |  |  |  |
|---------------------------|---|---|---|---|---|
| Accessory Item No.        | n/a   | 30130891  | 30130892  | 30130893  | 30314892*   |
| Accessory Type            | n/a   | Adapter   |   |   |   |
| Max. RPM (FC5718/FC5718R) | 12,000/12,000   |   |   |   |   |
| Quantity in Package       | n/a   | 2/pk  |   |   |   |
| Max. RCF                  | 13,522 x g  | 13,200 x g  | 12,717 x g  | 12,878 x g  | 12,395 x g  |
| Tube Specifications       |  |  |  |  |  |
| Tube Type                 | Round Bottom Oakridge   | Round Bottom  |   |   | Falcon  |
| Tube Volume               | 50 ml   | 30 ml   | 16 ml   | 15 ml   |   |
| Tubes per Rotor           | 6   |   |   |   |   |
| Max. Tube Diameter (mm)   | 29  | 26  | 18  | 17  | 17.5  |
| Tube Height (mm)          | 95/115  | 100   | 100/105   |   | 116/125   |


\*Only without bucket lid




| Angle Rotor 30 x 15 ml |            |
|------------------------|------------|
| Item No.               | 30314832   |
| Rotor Capacity         | 30 x 15 ml |
| Rotor Type             | Angle, 35° |
| Permissible Net Weight | 30 x 32 g  |
| Lowest Temperatures    | -9 °C      |








| Accessory Specifications  | n/a   |  |  |  |
|---------------------------|---|---|---|---|
| Accessory Item No.        | n/a   | 30130886  | 30130889  | 30130890  |
| Accessory Type            | n/a   | Adapter   |   |   |
| Max. RPM (FC5718/FC5718R) | 4,500/4,500   |   |   |   |
| Quantity in Package       | n/a   | 6/pk  | 2/pk  |   |
| Max. RCF                  | 2,830 x g   | 2,038 x g   | 2,762 x g   | 2,377 x g   |
| Tube Specifications       |  |  |  |  |
| Tube Type                 | Round Bottom/Falcon   | Micro Tube  | Round Bottom  |   |
| Tube Volume               | 15 ml   | 1.5/2.0 ml  | 7 ml  | 5 ml  |
| Tubes per Rotor           | 30  |   |   |   |
| Max. Tube Diameter (mm)   | 17  | 11  | 13.5  |   |
| Tube Height (mm)          | 95/115  | 42  | 100   | 65/75   |


## Rotors for FRONTIER™ FC5718 and FC5718R






|  | Angle Rotor 20 × 10 ml |            |
|--|------------------------|------------|
|  | Item No.               | 30314833   |
|  | Rotor Capacity         | 20 x 10 ml |
|  | Rotor Type             | Angle, 30° |
|  | Permissible Net Weight | 20 x 18 g  |
| Lowest Temperatures  | 2 °C                   |            |

\*No Adapters


|  | Angle Rotor 12 × 15 ml |            |
|--|------------------------|------------|
|  | Item No.               | 30314834   |
|  | Rotor Capacity         | 12 x 15 ml |
|  | Rotor Type             | Angle, 32° |
|  | Permissible Net Weight | 12 x 25 g  |
| Lowest Temperatures  | -11.5 °C               |            |






| Accessory Specifications  | n/a   |  |  |  |
|---------------------------|---|---|--|---|
| Accessory Item No.        | n/a   | 30130886  | 30130889   | 30130890  |
| Accessory Type            | n/a   | Adapter   |  |   |
| Max. RPM (FC5718/FC5718R) | 6,000/6,000   |   |  |   |
| Quantity in Package       | n/a   | 6/pk  | 2/pk   |   |
| Max. RCF                  | 4,427 x g   | 3,059 x g   | 4,266 x g  | 3,662 x g   |
| Tube Specifications       |  |  |  |  |
| Tube Type                 | Round Bottom/Falcon   | Micro Tube  | Round Bottom   |   |
| Tube Volume               | 15 ml   | 1.5/2.0 ml  | 7 ml   | 5 ml  |
| Tubes per Rotor           | 12  |   |  |   |
| Max. Tube Diameter (mm)   | 17  | 11  | 13.5   |   |
| Tube Height (mm)          | 121   | 42  | 100  | 65/75   |


|  | Angle Rotor 44 × 1.5/2.0 ml |                 |
|--|-----------------------------|-----------------|
|  | Item No.                    | 30314835        |
|  | Rotor Capacity              | 44 x 1.5/2.0 ml |
|  | Rotor Type                  | Angle, 32°/55°  |
|  | Permissible Net Weight      | 44 x 3.8 g      |
| Lowest Temperatures  | 1 °C                        |                 |






| Accessory Specifications  | n/a   |  |  |
|---------------------------|---|---|---|
| Accessory Item No.        | n/a   | 30130884  | 30130885  |
| Accessory Type            | n/a   | Adapter   |   |
| Max. RPM (FC5718/FC5718R) | 13,500/13,500   |   |   |
| Quantity in Package       | n/a   | 6/pk  |   |
| Max. RCF                  | 17,113 x g  | 15,687 x g  | 16,706 x g  |
| Tube Specifications       |  |  |  |
| Tube Type                 | Micro Tube  |   |   |
| Tube volume               | 1.5/2.0 ml  | 0.2/0.4 ml  | 0.5 ml  |
| Tubes per Rotor           | 44  |   |   |
| Max. Tube Diameter (mm)   | 11  | 6   | 8   |
| Tube Height (mm)          | 40  | 20  | 30  |

## Rotors for FRONTIER™ FC5718 and FC5718R


|  | Angle Rotor 30 × 1.5/2.0 ml Sealable |                 |
|---|--------------------------------------|-----------------|
|   | Item No.                             | 30314836        |
|   | Rotor Capacity                       | 30 x 1.5/2.0 ml |
|   | Rotor Type                           | Angle, 45°      |
|   | Permissible Net Weight               | 30 x 3.4 g      |
| Lowest Temperatures   | 9 °C                                 |                 |

| Accessory Specifications  | n/a   |  |  |
|---------------------------|---|---|---|
| Accessory Item No.        | n/a   | 30130884  | 30130885  |
| Accessory Type            | n/a   | Adapter   |   |
| Max. RPM (FC5718/FC5718R) | 13,000/14,000   |   |   |
| Quantity in Package       | n/a   | 6/pk  |   |
| Max. RCF                  | 17,758/20,595 x g   | 17,191/19,937 x g   | 15,869/18,404 x g   |
| Tube Specifications       |  |  |  |
| Tube Type                 | Micro Tube  |   |   |
| Tube volume               | 1.5/2.0 ml  | 0.2/0.4 ml  | 0.5 ml  |
| Tubes per Rotor           | 30  |   |   |
| Max. Tube Diameter (mm)   | 11  | 6   | 8   |
| Tube Height (mm)          | 40  | 20  | 30  |






|  | Angle Rotor 24 × 1.5/2.0 ml |                 |
|--|-----------------------------|-----------------|
|  | Item No.                    | 30314838        |
|  | Rotor Capacity              | 24 x 1.5/2.0 ml |
|  | Rotor Type                  | Angle, 45°      |
|  | Permissible Net Weight      | 24 x 3.4 g      |
| Lowest Temperatures  | 6 °C                        |                 |


| Accessory Specifications  | n/a   |  |  |
|---------------------------|---|---|---|
| Accessory Item No.        | n/a   | 30130884  | 30130885  |
| Accessory Type            | n/a   | Adapter   |   |
| Max. RPM (FC5718/FC5718R) | 14,000/15,000   |   |   |
| Quantity in Package       | n/a   | 6/pk  |   |
| Max. RCF                  | 18,624/21,379 x g   | 16,433/18,863 x g   | 17,967/20,624 x g   |
| Tube Specifications       |  |  |  |
| Tube Type                 | Micro Tube  |   |   |
| Tube volume               | 1.5/2.0 ml  | 0.2/0.4 ml  | 0.5 ml  |
| Tubes per Rotor           | 24  |   |   |
| Max. Tube Diameter (mm)   | 11  | 6   | 8   |
| Tube Height (mm)          | 40  | 20  | 30  |

**Rotors for FRONTIER™ FC5718 and FC5718R**




| Angle Rotor 12 x 1.5/2.0 ml |                 |
|-----------------------------|-----------------|
| Item No.                    | 30314839        |
| Rotor Capacity              | 12 x 1.5/2.0 ml |
| Rotor Type                  | Angle, 40°      |
| Permissible Net Weight      | 12 x 3.4 g      |
| Lowest Temperatures         | -2 °C           |

| Accessory Specifications  | n/a   |  |  |
|---------------------------|---|--|---|
| Accessory Item No.        | n/a   | 30314900   | 30130885  |
| Accessory Type            | n/a   | Adapter  |   |
| Max. RPM (FC5718/FC5718R) | 18,000/18,000   |  |   |
| Quantity in Package       | n/a   | 6/pk   |   |
| Max. RCF                  | 23,542 x g  | 23,180 x g   | 20,282 x g  |
| Tube Specifications       |  |   |  |
| Tube Type                 | Microtube   |  |   |
| Tube Volume               | 2 ml  | 1.5 ml   | 0.5 ml  |
| Tubes per Rotor           | 12  |  |   |
| Max. Tube Diameter (mm)   | 11  | 11   | 8   |
| Tube Height (mm)          | 40  | 42   | 30  |



| Angle Rotor 64 x 0.5 ml |             |
|-------------------------|-------------|
| Item No.                | 30314840    |
| Rotor Capacity          | 64 x 0.5 ml |
| Rotor Type              | Angle, 40°  |
| Permissible Net Weight  | 64 x 2.3 g  |
| Lowest Temperatures     | 2 °C        |


\*No Adapters

















| Angle Rotor 4 x 8-w PCR Strip |                   |
|-------------------------------|-------------------|
| Item No.                      | 30314841          |
| Rotor Capacity                | 4 x 8-w PCR Strip |
| Rotor Type                    | Angle, 45°        |
| Permissible Net Weight        | 4 x 3.5 g         |
| Lowest Temperatures           | -1 °C             |















\*No Adapters







**Rotors for FRONTIER™ FC5714**




| Swing Out Rotor 4 x 100 ml |                  |
|----------------------------|------------------|
| Item No.                   | 30314822         |
| Rotor Capacity             | 4 x 100 ml       |
| Rotor Type                 | Swing Out, 0-90° |
| Permissible Net Weight     | 4 x 340 g        |
| Lowest Temperature         | n/a              |

| Accessory Specifications |  |  |  |  |  |  |  |
|--------------------------|---|---|---|---|---|---|---|
| Accessory Item No.       | 30314842  | 30314843  | 30314844  | 30314845  | 30314846  | 30314847  | 30314848  |
| Accessory Type           | Rack  |   |   |   |   |   |   |
| Max. RPM                 | 4,500   |   |   |   |   |   |   |
| Quantity in Package      | 2/pk  |   |   |   |   |   |   |
| Max. RCF                 | 3,192 x g   |   | 3,214 x g   |   | 3,192 x g   | 3,237 x g   | 3,124 x g   |
| Tube Specifications      |  |  |  |  |  |  |  |
| Tube Type                | Round Bottom  |   |   |   | Falcon  | Skirted Conical   |   |
| Tube volume              | 100 ml  | 85 ml   | 50 ml   |   | 30 ml   |   |   |
| Tubes per Rotor          | 4   |   |   |   |   |   |   |
| Max. Tube Diameter (mm)  | 46  | 38  | 34  | 29  |   | 25  |   |
| Tube Height (mm)         | 90/108  | 92/118  |   | 90/108  | 116   |   | 95/105  |











| Accessory Specifications |    |    |    |    |    |    |    |
|--------------------------|---|---|---|---|---|---|---|
| Accessory Item No.       | 30314849  | 30314850  | 30314851  | 30314852  | 30314853  | 30314854  | 30314855  |
| Accessory Type           | Rack  |   |   |   |   |   |   |
| Max. RPM                 | 4,500   |   |   |   |   |   |   |
| Quantity in Package      | 2/pk  |   |   |   |   |   |   |
| Max. RCF                 | 3259  | 3350  | 3282  |   | 3214  | 2241  | 3169  |
| Tube Specifications      |  |  |  |  |  |  |  |
| Tube Type                | Round Bottom  | Falcon  | Skirted Conical   |   | Round Bottom  | Micro Tube  | Flat Bottom   |
| Tube volume              | 25 ml   | 15 ml   |   |   | 5-7 ml  | 1.5 ml  | 4.5 ml  |
| Tubes per Rotor          | 4   | 8   | 4   | 28  | 36  | 40  | 36  |
| Max. Tube Diameter (mm)  | 25  | 17  |   |   | 13  | 11  | 12  |
| Tube Height (mm)         | 95/105  | 120   |   | 90/108  | 75/100  | 42  | 75/100  |














| Accessory Specifications |  |  |  |
|--------------------------|---|---|---|
| Accessory Item No.       | 30314856  | 30314857  | 30314858  |
| Accessory Type           | Rack  |   |   |
| Max. RPM                 | 4,500   |   |   |
| Quantity in Package      | 2/pk  |   |   |
| Max. RCF                 | 2,626 x g   | 3,214 x g   | 3,237 x g   |
| Tube Specifications      |  |  |  |
| Tube Type                | Round Bottom  | Vacutainer  | Sarstedt  |
| Tube volume              | 5-7 ml  |   | 4-10 ml   |
| Tubes per Rotor          | 28  |   |   |
| Max. Tube Diameter (mm)  | 13  |   | 16  |
| Tube Height (mm)         | 65/80   | 75/100  |   |

# Rotors for FRONTIER™ FC5714





















| Swing Out Rotor 4 x 100 ml Sealable |                  |
|-------------------------------------|------------------|
| Item No.                            | 30314823         |
| Rotor Capacity                      | 4 x 100 ml       |
| Rotor Type                          | Swing Out, 0-90° |
| Permissible Net Weight              | 4 x 465 g        |
| Lowest Temperature                  | n/a              |

| Accessory Specifications |  |  |  |    |  |  |  |
|--------------------------|---|---|---|---|--|---|---|
| Accessory Item No.       | 30314860  | 30314861  | 30314862  | 30314863  | 30314864   | 30314865  | 30314866  |
| Accessory Type           | Bucket  |   | Screw Cap   | O-Ring  | Rack   |   |   |
| Max. RPM                 | 4,000   |   |   |   |  |   |   |
| Quantity in Package      | 2/pk  |   | 10/pk   | 2/pk  |  |   |   |
| Max. RCF                 | 2,418 x g   |   | n/a   | 2,350 x g   | 2,384 x g  |   |   |
| Tube Specifications      |  |   |   |  |  |  |   |
| Tube Type                | Round Bottom  |   |   |   |  |   |   |
| Tube volume              | 100 ml  |   |   | 85 ml   |  | 50 ml   |   |
| Tubes per Rotor          | n/a   |   |   | 4   |  |   |   |
| Max. Tube Diameter (mm)  | n/a   |   |   | 40  | 38   | 34  |   |
| Tube Height (mm)         | n/a   |   |   | 90/108  |  | 92/118  |   |


| Accessory Specifications |   |   |   |   |    |   |  |
|--------------------------|---|---|---|---|---|---|--|
| Accessory Item No.       | 30314867  | 30314868  | 30314869  | 30314870  | 30314871  | 30314872  | 30314873*  |
| Accessory Type           | Rack  |   |   |   |   |   |  |
| Max. RPM                 | 4,000   |   |   |   |   |   |  |
| Quantity in Package      | 2/pk  |   |   |   |   |   |  |
| Max. RCF                 | 2,383 x g   | 2,400 x g   | 2,366 x g   | 2,230 x g   | 2,383 x g   | 2,401 x g   |  |
| Tube Specifications      |  |  |  |  |  |  |  |
| Tube Type                | Round Bottom  | Falcon  | Skirted Conical   |   | Round Bottom  | Falcon  |  |
| Tube volume              | 50 ml   |   | 30 ml   | 25 ml   | 15 ml   |   |  |
| Tubes per Rotor          | 4   |   |   | 4   |   |   |  |
| Max. Tube Diameter (mm)  | 29  |   |   | 25  |   | 17  |  |
| Tube Height (mm)         | 90/113  | 116   |   | 95/105  | 95/110  | 120   |  |

# Rotors for FRONTIER™ FC5714




| Accessory Specifications |  |  |  |  |  |  |  |
|--------------------------|---|---|---|---|---|---|---|
| Accessory Item No.       | 30314874*   | 30314875  | 30314876  | 30314877  | 30314878  | 30314879  | 30314880  |
| Accessory Type           | Rack  |   |   |   |   |   |   |
| Max. RPM                 | 4,000   |   |   |   |   |   |   |
| Quantity in Package      | 2/pk  |   |   |   |   |   |   |
| Max. RCF                 | 2,383 x g   |   |   |   |   |   |   |
| Tube Specifications      |  |  |  |  |  |  |  |
| Tube Type                | Skirted Conical   | Round Bottom  |   | Micro Tube  | Sarstedt  | Round Bottom  | Vacutainer  |
| Tube volume              | 15 ml   |   | 5-7 ml  | 1.5 ml  | 10 ml   | 5-7 ml  | 10 ml   |
| Tubes per Rotor          | 8   | 16  | 28  | 20  | 12  | 16  |   |
| Max. Tube Diameter (mm)  | 17  |   | 13  | 11  | 17  | 13  | 17  |
| Tube Height (mm)         | 120   | 90/108  | 75/100  | 42  | 85/100  | 75/100  | 75/101  |

| Accessory Specifications |  |  |
|--------------------------|---|---|
| Accessory Item No.       | 30314881  | 30314882  |
| Accessory Type           | Bucket  |   |
| Max. RPM                 | 4,000   |   |
| Quantity in Package      | 2/pk  |   |
| Max. RCF                 | 2,486 x g   |   |
| Tube Specifications      |  |  |
| Tube Type                | Falcon  |   |
| Tube volume              | 50 ml   | 15 ml   |
| Tubes per Rotor          | 8   | 12  |
| Max. Tube Diameter (mm)  | 29  | 17  |
| Tube Height (mm)         | 116   | 120   |

\*Only without bucket lid



| Swing Out Rotor 2 x 3 MTP w/Bucket |                  |
|------------------------------------|------------------|
| Item No.                           | 30314824         |
| Rotor Capacity                     | 2 x 3 MTP        |
| Rotor Type                         | Swing Out, 0-90° |
| Permissible Net Weight             | 2 x 310 g        |
| Lowest Temperature                 | n/a              |

| Accessory Specifications |  |  |
|--------------------------|---|---|
| Accessory Item No.       | 30314890  | 30314891  |
| Accessory Type           | Bucket  | Adapter   |
| Max. RPM                 | 4,500   |   |
| Quantity in Package      | 2/pk  |   |
| Max. RCF                 | 2,716 x g   |   |
| Tube Specifications      | n/a   |  |
| Tube Type                | Microplate  | Microtube   |
| Tube volume              | MTP   | 1.5/2.0 ml  |
| Tubes per Rotor          | 6 Standard Microplates or 2 Deepwell Plates   | 96  |
| Max. Tube Diameter (mm)  | 87 x 128  | 11  |
| Tube Height (mm)         | 51  | 42  |



## Rotors for FRONTIER™ FC5714

| Angle Rotor 6 × 50 ml  |            |
|------------------------|------------|
| Item No.               | 30314830   |
| Rotor Capacity         | 6 x 50 ml  |
| Rotor Type             | Angle, 40° |
| Permissible Net Weight | 6 x 72 g   |
| Lowest Temperature     | n/a        |

| Accessory Specifications | n/a                 |            |              |           |           |           |                     |          |
|--------------------------|---------------------|------------|--------------|-----------|-----------|-----------|---------------------|----------|
| Accessory Item No.       | n/a                 | 30130886   | 30130889     | 30130890  | 30130891  | 30130892  | 30130893            | 30130894 |
| Accessory Type           | n/a                 | Adapter    |              |           |           |           |                     |          |
| Max. RPM                 | 6,000               |            |              |           |           |           |                     |          |
| Quantity in Package      | n/a                 | 6/pk       | 2/pk         |           |           |           |                     |          |
| Max. RCF                 | 4,427 x g           | 2,696 x g  | 4,105 x g    | 3,340 x g | 4,306 x g | 4,145 x g | 4,266 x g           |          |
| Tube Specifications      |                     |            |              |           |           |           |                     |          |
| Tube Type                | Round Bottom/Falcon | Micro Tube | Round Bottom |           |           |           | Round Bottom/Falcon |          |
| Tube volume              | 50 ml               | 1.5/2.0 ml | 7 ml         | 5 ml      | 30 ml     | 16 ml     | 15 ml               |          |
| Tubes per Rotor          | 6                   |            |              |           |           |           |                     |          |
| Max. Tube Diameter (mm)  | 29                  | 11         | 13.5         |           | 26        | 18        | 17                  |          |
| Tube Height (mm)         | 116                 | 42         | 100          | 65/75     | 100       | 100/105   |                     | 120      |

| Angle Rotor 30 × 15 ml |            |
|------------------------|------------|
| Item No.               | 30314832   |
| Rotor Capacity         | 30 x 15 ml |
| Rotor Type             | Angle, 35° |
| Permissible Net Weight | 30 x 32 g  |
| Lowest Temperature     | n/a        |

| Accessory Specifications | n/a                 |            |              |           |
|--------------------------|---------------------|------------|--------------|-----------|
| Accessory Item No.       | n/a                 | 30130886   | 30130889     | 30130890  |
| Accessory Type           | n/a                 | Adapter    |              |           |
| Max. RPM                 | 4,500               |            |              |           |
| Quantity in Package      | n/a                 | 6/pk       | 2/pk         |           |
| Max. RCF                 | 2,830 x g           | 2,038 x g  | 2,762 x g    | 2,377 x g |
| Tube Specifications      |                     |            |              |           |
| Tube Type                | Round Bottom/Falcon | Micro Tube | Round Bottom |           |
| Tube Volume              | 15 ml               | 1.5/2.0 ml | 7 ml         | 5 ml      |
| Tubes per Rotor          | 30                  |            |              |           |
| Max. Tube Diameter (mm)  | 17                  | 11         | 13.5         |           |
| Tube Height (mm)         | 95/115              | 42         | 100          | 65/75     |

## Rotors for FRONTIER™ FC5714

| Angle Rotor 12 × 15 ml |            |
|------------------------|------------|
| Item No.               | 30314834   |
| Rotor Capacity         | 12 x 15 ml |
| Rotor Type             | Angle, 32° |
| Permissible Net Weight | 12 x 25 g  |
| Lowest Temperature     | n/a        |

| Accessory Specifications | n/a                 |            |              |           |
|--------------------------|---------------------|------------|--------------|-----------|
| Accessory Item No.       | n/a                 | 30130886   | 30130889     | 30130890  |
| Accessory Type           | n/a                 | Adapter    |              |           |
| Max. RPM                 | 6,000               |            |              |           |
| Quantity in Package      | n/a                 | 6/pk       | 2/pk         |           |
| Max. RCF                 | 4,427 x g           | 3,059 x g  | 4,266 x g    | 3,662 x g |
| Tube Specifications      |                     |            |              |           |
| Tube Type                | Round Bottom/Falcon | Micro Tube | Round Bottom |           |
| Tube Volume              | 15 ml               | 1.5/2.0 ml | 7 ml         | 5 ml      |
| Tubes per Rotor          | 12                  |            |              |           |
| Max. Tube Diameter (mm)  | 17                  | 11         | 13.5         |           |
| Tube Height (mm)         | 121                 | 42         | 100          | 65/75     |






| Angle Rotor 30 × 1.5/2.0 ml Sealable |                 |
|--------------------------------------|-----------------|
| Item No.                             | 30314836        |
| Rotor Capacity                       | 30 x 1.5/2.0 ml |
| Rotor Type                           | Angle, 45°      |
| Permissible Net Weight               | 30 x 3.4 g      |
| Lowest Temperature                   | n/a             |

| Accessory Specifications | n/a        |            |            |
|--------------------------|------------|------------|------------|
| Accessory Item No.       | n/a        | 30130884   | 30130885   |
| Accessory Type           | n/a        | Adapter    |            |
| Max. RPM                 | 12,000     |            |            |
| Quantity in Package      | n/a        | 6/pk       |            |
| Max. RCF                 | 15,131 x g | 13,521 x g | 14,648 x g |
| Tube Specifications      |            |            |            |
| Tube Type                | Microtube  |            |            |
| Tube volume              | 1.5/2.0 ml | 0.2/0.4 ml | 0.5 ml     |
| Tubes per Rotor          | 30         |            |            |
| Max. Tube Diameter (mm)  | 11         | 6          | 8          |
| Tube Height (mm)         | 40         | 20         | 30         |

## Rotors for FRONTIER™ FC5714








| Angle Rotor 24 x 1.5/2.0 ml |                 |
|-----------------------------|-----------------|
| Item No.                    | 30314838        |
| Rotor Capacity              | 24 x 1.5/2.0 ml |
| Rotor Type                  | Angle, 45°      |
| Permissible Net Weight      | 24 x 3.4 g      |
| Lowest Temperature          | n/a             |

| Accessory Specifications | n/a   |  |  |
|--------------------------|---|---|---|
| Accessory Item No.       | n/a   | 30130884  | 30130885  |
| Accessory Type           | n/a   | Adapter   |   |
| Max. RPM                 | 14,000  |   |   |
| Quantity in Package      | n/a   | 6/pk  |   |
| Max. RCF                 | 18,624 x g  | 16,433 x g  | 17,967 x g  |
| Tube Specifications      |  |  |  |
| Tube Type                | Microtube   |   |   |
| Tube volume              | 1.5/2.0 ml  | 0.2/0.4 ml  | 0.5 ml  |
| Tubes per Rotor          | 24  |   |   |
| Max. Tube Diameter (mm)  | 11  | 6   | 8   |
| Tube Height (mm)         | 40  | 20  | 30  |











| Angle Rotor 24 x 1.5/2.0 ml BIOSEALS |                 |
|--------------------------------------|-----------------|
| Item No.                             | 30304361        |
| Rotor Capacity                       | 24 x 1.5/2.0 ml |
| Rotor Type                           | Angle, 45°      |
| Permissible Net Weight               | 24 x 3.4 g      |
| Lowest Temperature                   | n/a             |

| Accessory Specifications | n/a   |  |  |
|--------------------------|---|---|---|
| Accessory Item No.       | n/a   | 30130884  | 30130885  |
| Accessory Type           | n/a   | Adapter   |   |
| Max. RPM                 | 14,000  |   |   |
| Quantity in Package      | n/a   | 6/pk  |   |
| Max. RCF                 | 18,624 x g  | 16,433 x g  | 17,967 x g  |
| Tube Specifications      |  |  |  |
| Tube Type                | Microtube   |   |   |
| Tube volume              | 1.5/2.0 ml  | 0.2/0.4 ml  | 0.5 ml  |
| Tubes per Rotor          | 24  |   |   |
| Max. Tube Diameter (mm)  | 11  | 6   | 8   |
| Tube Height (mm)         | 40  | 20  | 30  |

## Rotors for FRONTIER™ FC5707










| Angle Rotor 8 x 15 ml  |            |
|------------------------|------------|
| Item No.               | 30472305   |
| Rotor Capacity         | 8 x 15 ml  |
| Rotor Type             | Angle, 32° |
| Permissible Net Weight | 200 g      |
| Lowest Temperature     | n/a        |







| Accessory Specifications | n/a   | n/a   |  |  |  |
|--------------------------|---|---|---|---|---|
| Accessory Item No.       | n/a   | n/a   | 30130886  | 30130889  | 30130890  |
| Accessory Type           | n/a   | n/a   | Adapter   |   |   |
| Max. RPM                 | 6,800   |   |   |   |   |
| Quantity in Package      | n/a   |   | 6/pk  | 2/pk  |   |
| Max. RCF                 | 4,445 x g   |   | 2,894 x g   | 4,290 x g   | 3,618 x g   |
| Tube Specifications      |  |  |  |  |  |
| Tube Type                | Round Bottom  | Conical   | Micro Tube  | Round Bottom  |   |
| Tube Volume              | 15 ml   |   | 1.5/2.0 ml  | 7 ml  | 5 ml  |
| Tubes per Rotor          | 8   | 4   | 8   |   |   |
| Max. Tube Diameter (mm)  | 17  |   | 11  | 13.5  |   |
| Tube Height (mm)         | 95/100  | 121   | 42  | 95/115  | 62/90   |

### Rotors for FRONTIER™ FC5706

| Angle Rotor 12 x 15 ml |            |
|------------------------|------------|
| Item No.               | 30130877   |
| Rotor Capacity         | 12 x 15 ml |
| Rotor Type             | Angle, 32° |
| Permissible Net Weight | 300 g      |
| Lowest Temperature     | n/a        |

| Accessory Specifications | n/a   |  |  |  |
|--------------------------|---|---|--|---|
| Accessory Item No.       | n/a   | 30130886  | 30130889   | 30130890  |
| Accessory Type           | n/a   | Adapter   |  |   |
| Max. RPM                 | 6,000   |   |  |   |
| Quantity in Package      | n/a   | 6/pk  | 2/pk   |   |
| Max. RCF                 | 4,427 x g   | 3,058 x g   | 4,265 x g  | 3,621 x g   |
| Tube Specifications      |  |  |  |  |
| Tube Type                | Round Bottom/Falcon   | Micro Tube  | Round bottom   |   |
| Tube volume              | 15 ml   | 1.5/2.0 ml  | 7 ml   | 5 ml  |
| Tubes per Rotor          | 12  |   |  |   |
| Max. Tube Diameter (mm)  | 17  | 11  | 13.5   |   |
| Tube Height (mm)         | 121   | 42  | 95/115   | 62/90   |

| Angle Rotor 6 x 50 ml  |            |
|------------------------|------------|
| Item No.               | 30130878   |
| Rotor Capacity         | 6 x 50 ml  |
| Rotor Type             | Angle, 40° |
| Permissible Net Weight | 432 g      |
| Lowest Temperature     | n/a        |


| Accessory Specifications | n/a   |  |  |  |  |
|--------------------------|---|---|---|---|---|
| Accessory Item No.       | n/a   | 30130891  | 30130892  | 30130893  | 30130894  |
| Accessory Type           | n/a   | Adapter   |   |   |   |
| Max. RPM                 | 6,000   |   |   |   |   |
| Quantity in Package      | n/a   | 2/pk  |   |   |   |
| Max. RCF                 | 4,427 x g   | 4,306 x g   | 4,145 x g   | 4,225 x g   | 4,185 x g   |
| Tube Specifications      |  |  |  |  |  |
| Tube Type                | Round Bottom/Falcon   | Round Bottom  |   |   | Round Bottom/Falcon   |
| Tube Volume              | 50 ml   | 30 ml   | 16 ml   | 15 ml   |   |
| Tubes per Rotor          | 6   |   |   |   |   |
| Max. Tube Diameter (mm)  | 29  | 26  | 18  | 17  |   |
| Tube Height (mm)         | 116   | 100   | 100/105   |   | 120   |

### Rotors for FRONTIER™ FC5706






| Swing Out Rotor 6 x 5 ml |                  |
|--------------------------|------------------|
| Item No.                 | 30130880         |
| Rotor Capacity           | 6 x 5 ml         |
| Rotor Type               | Swing Out, 0-90° |
| Permissible Net Weight   | 240 g            |
| Lowest Temperature       | n/a              |


| Accessory Specifications |  |
|--------------------------|---|
| Accessory Item No.       | 30130895  |
| Accessory Type           | Bucket  |
| Max. RPM                 | 4,000   |
| Quantity in Package      | 2/pk  |
| Max. RCF                 | 1,878 x g   |
| Tube Specifications      |  |
| Tube Type                | Round Bottom  |
| Tube volume              | 5 ml  |
| Tubes per Rotor          | 6   |
| Max. Tube Diameter (mm)  | 14  |
| Tube Height (mm)         | 75  |

## Rotors for FRONTIER™ FC5515 and FC5515R








| Angle Rotor 24 × 1.5/2.0 ml |                 |
|-----------------------------|-----------------|
| Item No.                    | 30130870        |
| Rotor Capacity              | 24 x 1.5/2.0 ml |
| Rotor Type                  | Angle, 45°      |
| Permissible Net Weight      | 82 g            |
| Lowest Temperature          | +5 °C           |


| Accessory Specifications | n/a   |  |  |
|--------------------------|---|---|---|
| Accessory Item No.       | n/a   | 30130884  | 30130885  |
| Accessory Type           | n/a   | Adapter   |   |
| Max. RPM                 | 15,200  |   |   |
| Quantity in Package      | n/a   | 6/pk  |   |
| Max. RCF                 | 21,953 x g  | 19,145 x g  | 20,932 x g  |
| Tube Specifications      |  |  |    |
| Tube Type                | Microtube   | Microtube   |   |
| Tube volume              | 1.5/2.0 ml  | 0.2 ml  | 0.4 ml  |
| Tubes per Rotor          | 24  |   |   |
| Max. Tube Diameter (mm)  | 11  | 6   | 8   |
| Tube Height (mm)         | 40  | 20  | 30  |








| Angle Rotor 24 × 1.5/2.0 ml BIOSEALS |                 |
|--------------------------------------|-----------------|
| Item No.                             | 30130871        |
| Rotor Capacity                       | 24 x 1.5/2.0 ml |
| Rotor Type                           | Angle, 45°      |
| Permissible Net Weight               | 82 g            |
| Lowest Temperatures                  | +5 °C           |


| Accessory Specifications | n/a   |  |  |
|--------------------------|---|---|---|
| Accessory Item No.       | n/a   | 30130884  | 30130885  |
| Accessory Type           | n/a   | Adapter   |   |
| Max. RPM                 | 15,200  |   |   |
| Quantity in Package      | n/a   | 6/pk  |   |
| Max. RCF                 | 21,953 x g  | 19,165 x g  | 20,932 x g  |
| Tube Specifications      |  |  |    |
| Tube Type                | Microtube   | Microtube   |   |
| Tube volume              | 1.5/2.0 ml  | 0.2 ml  | 0.4 ml  |
| Tubes per Rotor          | 24  |   |   |
| Max. Tube Diameter (mm)  | 11  | 6   | 8   |
| Tube Height (mm)         | 40  | 20  | 30  |

## Rotors for FRONTIER™ FC5515 and FC5515R










| Angle Rotor 30 × 1.5/2.0 ml Sealable |                 |
|--------------------------------------|-----------------|
| Item No.                             | 30130872        |
| Rotor Capacity                       | 30 x 1.5/2.0 ml |
| Rotor Type                           | Angle, 45°      |
| Permissible Net Weight               | 102 g           |
| Lowest Temperatures                  | +6 °C           |

| Accessory Specifications | n/a   |  |  |
|--------------------------|---|---|---|
| Accessory Item No.       | n/a   | 30130884  | 30130885  |
| Accessory Type           | n/a   | Adapter   |   |
| Max. RPM                 | 13,500  |   |   |
| Quantity in Package      | n/a   | 6/pk  |   |
| Max. RCF                 | 19,150 x g  | 16,933 x g  | 18,344 x g  |
| Tube Specifications      |  |  |  |
| Tube Type                | Microtube   |   |   |
| Tube volume              | 1.5/2.0 ml  | 0.2/0.4 ml  | 0.5 ml  |
| Tubes per Rotor          | 30  |   |   |
| Max. Tube Diameter (mm)  | 11  | 6   | 8   |
| Tube Height (mm)         | 40  | 20  | 30  |



| Angle Rotor 12 × 5 ml Sealable |            |
|--------------------------------|------------|
| Item No.                       | 30130873   |
| Rotor Capacity                 | 12 x 5 ml  |
| Rotor Type                     | Angle, 45° |
| Permissible Net Weight         | 165 g      |
| Lowest Temperatures            | +4 °C      |

| Accessory Specifications | n/a   |  |  |  |
|--------------------------|---|---|---|---|
| Accessory Item No.       | n/a   | 30130886  | 30130887  | 30130888  |
| Accessory Type           | n/a   | Adapter   |   |   |
| Max. RPM                 | 14,500  |   |   |   |
| Quantity in Package      | n/a   | 2/pk  | 6/pk  |   |
| Max. RCF                 | 19,978 x g  | 16,452 x g  | 17,158 x g  | 17,628 x g  |
| Tube Specifications      |  |  |  |  |
| Tube Type                | Microtube   |   | Cryo Tube   |   |
| Tube volume              | 5 ml  | 1.5/2.0 ml  | 1.0 ml  | 1.8 ml  |
| Tubes per Rotor          | 12  |   |   |   |
| Max. Diameter (mm)       | 17  | 11  | 12.6  |   |
| Tube Height (mm)         | 60  | 42  | 41  | 48  |

## Rotors for FRONTIER™ FC5515 and FC5515R



| Angle Rotor 4 x 8 Place PCR Stripes |                         |
|-------------------------------------|-------------------------|
| Item No.                            | 30130874                |
| Rotor Capacity                      | 4 x 8 Place PCR Stripes |
| Rotor Type                          | Angle, 45°              |
| Permissible Net Weight              | 14 g                    |
| Lowest Temperatures                 | +5 °C                   |

\*No Adapters



| Angle Rotor 44 x 1.5/2.0 ml |                |
|-----------------------------|----------------|
| Item No.                    | 30130879       |
| Rotor Capacity              | 44 x 1.5/2.0ml |
| Rotor Type                  | Angle, 32°/55° |
| Permissible Net Weight      | 150 g          |
| Lowest Temperatures         | +6 °C          |

| Accessory Specifications | n/a        |            |            |
|--------------------------|------------|------------|------------|
| Accessory Item No.       | n/a        | 30130884   | 30130885   |
| Accessory Type           | n/a        | Adapter    |            |
| Max. RPM                 |            | 13,500     |            |
| Quantity in Package      | n/a        | 6/pk       |            |
| Max. RCF                 | 17,317 x g | 15,668 x g | 17,111 x g |
| Tube Specifications      |            |            |            |
| Tube Type                | Microtube  |            |            |
| Tube volume              | 1.5/2.0 ml | 0.2/0.4 ml | 0.5 ml     |
| Tubes per Rotor          | 44         |            |            |
| Max. Tube Diameter (mm)  | 11         | 6          | 8          |
| Tube Height (mm)         | 40         | 20         | 30         |



| Rotor, Angle, 24 x Capillaries |                  |
|--------------------------------|------------------|
| Item No.                       | 30130881         |
| Rotor Capacity                 | 24 x Capillaries |
| Rotor Type                     | Angle, 90°       |
| Permissible Net Weight         | 4.8 g            |
| Lowest Temperatures            | n/a              |

\*No Adapters

## Rotors for FRONTIER™ FC5513



| Angle Rotor 24 x 1.5/2.0 ml |                 |
|-----------------------------|-----------------|
| Item No.                    | 30472301        |
| Rotor Capacity              | 24 x 1.5/2.0 ml |
| Rotor Type                  | Angle, 45°      |
| Permissible Net Weight      | 82 g            |
| Lowest Temperature          | n/a             |

| Accessory Specifications | n/a        |            |           |
|--------------------------|------------|------------|-----------|
| Accessory Item No.       | n/a        | 30130884   | 30130885  |
| Accessory Type           | n/a        | Adapter    |           |
| Max. RPM                 |            | 13,500     |           |
| Quantity in Package      | n/a        | 6/pk       |           |
| Max. RCF                 | 17,317 x g | n/a        | 2,716 x g |
| Tube Specifications      |            |            |           |
| Tube Type                | Microtube  |            |           |
| Tube volume              | 1.5/2.0 ml | 0.2/0.4 ml | 0.5 ml    |
| Tubes per Rotor          | 24         | 24         |           |
| Max. Tube Diameter (mm)  | 11         | 6          | 8         |
| Tube Height (mm)         | 40         | 20         | 30        |




| Angle Rotor 24 x 1.5/2.0 ml BIOSEALS |                 |
|--------------------------------------|-----------------|
| Item No.                             | 30472302        |
| Rotor Capacity                       | 24 x 1.5/2.0 ml |
| Rotor Type                           | Angle, 45°      |
| Permissible Net Weight               | 82 g            |
| Lowest Temperature                   | n/a             |

| Accessory Specifications | n/a        |            |            |
|--------------------------|------------|------------|------------|
| Accessory Item No.       | n/a        | 30130884   | 30130885   |
| Accessory Type           | n/a        | Adapter    |            |
| Max. RPM                 |            | 13,5000    |            |
| Quantity in Package      | n/a        | 6/pk       |            |
| Max. RCF                 | 17,317 x g | 15,076 x g | 16,706 x g |
| Tube Specifications      |            |            |            |
| Tube Type                | Microtube  |            |            |
| Tube volume              | 1.5/2.0 ml | 0.2/0.4 ml | 0.5 ml     |
| Tubes per Rotor          | 24         |            |            |
| Max. Tube Diameter (mm)  | 11         | 6          | 8          |
| Tube Height (mm)         | 40         | 20         | 30         |

### Rotors for FRONTIER™ FC5513



| Angle Rotor 18 × 2.0 ml Spin Column |             |
|-------------------------------------|-------------|
| Item No.                            | 30472303    |
| Rotor Capacity                      | 18 × 2.0 ml |
| Rotor Type                          | Angle, 45°  |
| Permissible Net Weight              | 68 g        |
| Lowest Temperature                  | n/a         |

| Tube Specifications     |  |
|-------------------------|---|
| Tube Type               | Microtube   |
| Tube volume             | 2 ml  |
| Tubes per Rotor         | 18  |
| Max. Tube Diameter (mm) | 11  |
| Tube Height (mm)        | 40  |

\*No Adapters



| Hematocrit Rotor 24 × Capillaries V2 |                      |
|--------------------------------------|----------------------|
| Item No.                             | 30472304             |
| Rotor Capacity                       | 24 × Capillaries, V2 |
| Rotor Type                           | Hematocrit, 90°      |
| Permissible Net Weight               | 4.8 g                |
| Lowest Temperature                   | n/a                  |

\*No Adapters

### Rotors for FRONTIER™ FC5306



| Angle Rotor 8 × 1.5/2.0 ml |                |
|----------------------------|----------------|
| Item No.                   | 30129559       |
| Rotor Capacity             | 8 × 1.5/2.0 ml |
| Rotor Type                 | Angle, 40°     |
| Permissible Net Weight     | 8 × 3.4 g      |
| Lowest Temperatures        | n/a            |

| Accessory Specifications | n/a   |  |  |
|--------------------------|---|---|---|
| Accessory Item No.       | n/a   | 30129561  | 30129562  |
| Accessory Type           | n/a   | Adapter   |   |
| Max. RPM                 | 6000 rpm  |   |   |
| Quantity in Package      | 1 /pk   | 8 /pk   |   |
| Max. RCF                 | 2000 × g  |   |   |
| Tube Specifications      |  |  |  |
| Tube Type                | Round / Conical Bottom  |   |   |
| Tube volume              | 1.5/2.0 ml  | 0.2 ml  | 0.5 ml  |
| Tubes per Rotor          | 8   |   |   |
| Max. Tube Diameter (mm)  | 11  | 6   | 8   |
| Tube Height (mm)         | 40  | 20  | 30  |



| Angle Rotor 4 × 8 Place PCR Stripes |                         |
|-------------------------------------|-------------------------|
| Item No.                            | 30129560                |
| Rotor Capacity                      | 4 × 8 Place PCR Stripes |
| Rotor Type                          | Angle, 40°              |
| Permissible Net Weight              | n/a                     |
| Lowest Temperatures                 | n/a                     |

| Accessory Specifications | n/a         |
|--------------------------|-------------|
| Accessory Item No.       | n/a         |
| Accessory Type           | n/a         |
| Max. RPM                 | 6,000 rpm   |
| Quantity in Package      | n/a         |
| Max. RCF                 | 2000 × g    |
| Tube Specifications      |             |
| Tube Type                | PCR Stripes |
| Tube volume              | 0.2 ml      |
| Tubes per Rotor          | 32          |
| Max. Tube Diameter (mm)  | 6           |
| Tube Height (mm)         | 20          |



# FRONTIER™ 5000

Rotor Guide



## OHAUS Corporation

Headquartered in Parsippany, NJ, OHAUS Corporation manufactures an extensive line of balances and scales, lab equipment and lab instruments that meet the weighing, sample processing and measurement needs of multiple industries. We are a global leader in the laboratory, industrial and education markets, as well as a host of specialty markets, including the food preparation, pharmacy and jewelry industries. An ISO 9001:2008 manufacturer, OHAUS lab balances, industrial scales, lab equipment and lab instruments are precise, reliable and affordable, and backed by industry-leading customer support.

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