



## Powerful at every turn

Thermo Scientific™ General Purpose Pro  
and Plus Centrifuge Series



# Multifuge X Pro and Megafuge ST Plus Centrifuge Series

Thermo Scientific™ Multifuge™ X Pro and Megafuge™ ST Plus centrifuges are designed to offer improved performance, reliability, consistency and safety.

With fixed-angle rotor RCF (Relative Centrifugal Force) of over 25000 x g, and swinging bucket rotor RCF of over 7000 x g, even the toughest separations can be completed better and faster.

Scientists working across biopharmaceutical, academic research and clinical diagnostic applications can choose between ventilated or refrigerated 1.6L (4x400ml) and 4L (4x1000ml) floor and bench models.







## User interface



Multifuge X Pro touchscreen interface



Megafuge ST Plus user interface

### Simple touchscreen programming

Discover the Multifuge X Pro touchscreen features including:

- Easily accessible menu bar
- Centrifuge health icon for at-a-glance monitoring
- Time-saving pre-temp button
- Quick spins
- Useful information icon for additional support



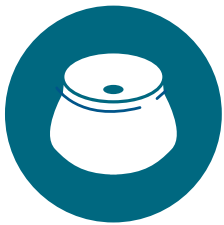
## Rotor exchange

### Thermo Scientific™ Auto-Lock™ Rotor Exchange

Helps save time for faster results:

- Secure, ergonomic push-button rotor exchange in as little as three seconds
- Trouble-free installation and removal with no tools required
- Full chamber access for cleaning convenience and minimizes risk of drip tray contamination
- Flexibility to quickly switch between applications and evolve with the changing needs of your laboratory





## Carbon fiber rotors



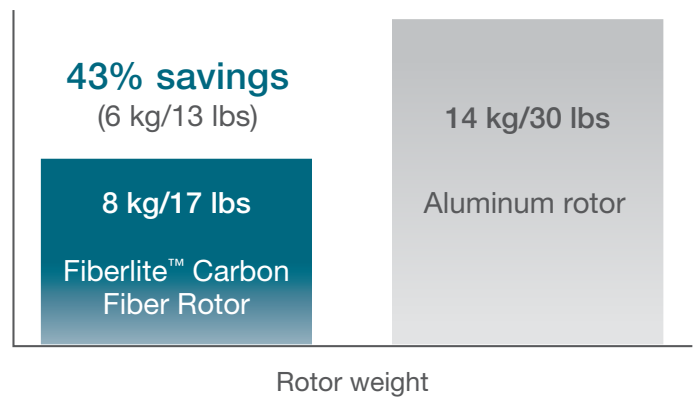
### Superior ergonomics with enhanced performance

- Thermo Scientific™ Fiberlite™ rotor/lid combinations offer protection to the user, the centrifuge and the samples during centrifugation\*
- Outstanding durability provided by carbon fiber construction is supported by a 15 year Fiberlite™ Rotor warranty
- Fiberlite™ Rotors can reach higher speeds than their metal counterparts, improving separations and results
- Superior ergonomics driven by lightweight construction, integrated handle design and Auto-Lock™ Rotor exchange

\*Biocontainment certified by National Institute for Health Protection, Porton Down, UK

Weight savings with carbon fiber rotors:

Weight comparison of fully loaded 6 x 250 mL capacity floor model rotors\*



## Biocontainment lids

### Thermo Scientific™ ClickSeal™ Biocontainment Lids One-handed sample protection

- Biocontainment sealing options for glove-friendly, one-handed open/close capability are ergonomically designed for both right and left-handed operations
- Simple operation for all laboratory users, eliminating multi-turn screw caps and complicated high pressure clips
- Biocontainment certification by National Institute for Health Protection, Porton Down, UK



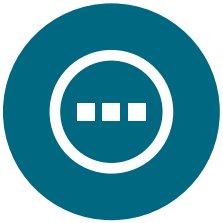


## Safety and ergonomics

**Hand grip cue on the lid** indicates the easiest and best one-handed closure location.



**Improved safety with reduced pinch-points** designed to prevent accidental injury. Motorized gas springs with safety protection.



## Enhancements

**Accessory tray** holds tools or samples as you prepare for your run.



**Front USB port** for easier plug in and data transfer.





Thermo Scientific™ Multifuge™ X4R Pro



Thermo Scientific™ Megafuge™ ST4R Plus

## 4 L Benchtop Centrifuges: specifications and ordering information

| Specifications                      | Multifuge X4 Pro   |                  | Multifuge X4R Pro                  |                                  | Megafuge ST4 Plus                                   |                  | Megafuge ST4R Plus                 |                                  |
|-------------------------------------|--|------------------|------------------------------------|----------------------------------|---|------------------|------------------------------------|----------------------------------|
|                                     | IVD  | General Use Only | IVD                                | General Use Only                 | IVD   | General Use Only | IVD                                | General Use Only                 |
| <b>Swinging Buckets Rotors</b>      |  |                  |                                    |                                  |   |                  |                                    |                                  |
| Maximum Capacity                    | 4 x 1000 mL with TX-1000 rotor   |                  |                                    |                                  |   |                  |                                    |                                  |
| Maximum Speed                       | 6100 rpm with H-Flex HS4 rotor   |                  |                                    |                                  | 5300 rpm with BIOShield 1000A rotor                 |                  |                                    |                                  |
| Maximum RCF                         | 7197 x g with H-Flex HS4 rotor   |                  |                                    |                                  | 5590 x g with BIOShield 1000A rotor                 |                  |                                    |                                  |
| <b>Fixed Angle Rotors</b>           |  |                  |                                    |                                  |   |                  |                                    |                                  |
| Maximum Capacity                    | 6 x 250 mL with F14-6x250LE rotor  |                  |                                    |                                  | 6 x 100 mL with F15-6x100 or F10-6x100 rotor        |                  |                                    |                                  |
| Maximum Speed                       | 15200 rpm with F21-48x2, Microliter 48x2 or Microliter 30x2  |                  |                                    |                                  |   |                  |                                    |                                  |
| Maximum RCF                         | 25830 x g with Microliter 30x2   |                  |                                    |                                  |   |                  |                                    |                                  |
| <b>Centrifuge Details</b>           |  |                  |                                    |                                  |   |                  |                                    |                                  |
| Control System                      | Microprocessor   |                  |                                    |                                  |   |                  |                                    |                                  |
| Drive System                        | Direct, Brushless induction low profile motor  |                  |                                    |                                  |   |                  |                                    |                                  |
| Accel/Decel Profiles                | Choices of 9 Accel / 10 Decel Rates  |                  |                                    |                                  |   |                  |                                    |                                  |
| Material                            | front, top, sides: PC-ABS plastic painted with 2K PUR-based lacquer; metal housing: cold rolled steel with powder paint; centrifuge bowl: stainless steel; centrifuge feet: rubber |                  |                                    |                                  |   |                  |                                    |                                  |
| Safety Features                     | SMARTSpin Imbalance detection, finger-pinch prevention, crash-proof construction   |                  |                                    |                                  |   |                  |                                    |                                  |
| Warranty                            | 5 Year Limited (2 years standard warranty + 3 additional years on motor and refrigeration)   |                  |                                    |                                  |   |                  |                                    |                                  |
| Includes                            | printed English user manual, USB stick with 28 languages of user manual, corrosion resistance oil (70009824), power cord, declaration of conformity                                |                  |                                    |                                  |   |                  |                                    |                                  |
| Temperature Range                   | N/A  |                  | -10°C to +40°C                     |                                  | N/A   |                  | -10°C to +40°C                     |                                  |
| Number of Compatible Rotors         | 17   |                  | 17                                 |                                  | 12  |                  | 12                                 |                                  |
| <b>Display Details</b>              |  |                  |                                    |                                  |   |                  |                                    |                                  |
| Display                             | Full color touch screen interface  |                  |                                    |                                  | Push button and high contrast LCD interface         |                  |                                    |                                  |
| Run Time                            | max 99h, 59min, 59sec; also with continuous and customizable pulse   |                  |                                    |                                  | max 9h, 59min; also with continuous and pulse modes |                  |                                    |                                  |
| Timer                               | count up or down   |                  |                                    |                                  | count down only                                     |                  |                                    |                                  |
| Program Storage                     | up to 100 run programs   |                  |                                    |                                  | up to 6 run programs                                |                  |                                    |                                  |
| Programmability                     | via easy access touch screen menu  |                  |                                    |                                  | via 6 direct access buttons                         |                  |                                    |                                  |
| <b>Dimensions, Weight</b>           |  |                  |                                    |                                  |   |                  |                                    |                                  |
| Width (inches) Exterior             | 22.3   |                  | 29.4                               |                                  | 22.3  |                  | 29.4                               |                                  |
| Width (cm) Exterior                 | 56.6   |                  | 74.6                               |                                  | 56.6  |                  | 74.6                               |                                  |
| Depth (inches) Exterior             | 27.2   |                  | 27.2                               |                                  | 27.2  |                  | 27.2                               |                                  |
| Depth (cm) Exterior                 | 69.0   |                  | 69.0                               |                                  | 69.0  |                  | 69.0                               |                                  |
| Height (inches) Exterior            | 14.3   |                  | 14.2                               |                                  | 14.3  |                  | 14.2                               |                                  |
| Height (cm) Exterior                | 36.2   |                  | 36.1                               |                                  | 36.2  |                  | 36.1                               |                                  |
| Height (inches) Open Cover          | 33.9   |                  | 33.9                               |                                  | 33.9  |                  | 33.9                               |                                  |
| Height (cm) Open Cover              | 86.1   |                  | 86.0                               |                                  | 86.1  |                  | 86.0                               |                                  |
| Footprint Dimensions (inches)       | 22.3 x 23.1  |                  | 29.4 x 23.0                        |                                  | 22.3 x 23.1   |                  | 29.4 x 23.0                        |                                  |
| Footprint Dimensions (cm)           | 56.6 x 58.8  |                  | 74.6 x 58.4                        |                                  | 56.6 x 58.8   |                  | 74.6 x 58.4                        |                                  |
| Net Weight (lbs)                    | 196  |                  | 265                                |                                  | 196   |                  | 265                                |                                  |
| Net Weight (kgs)                    | 89   |                  | 120                                |                                  | 89  |                  | 120                                |                                  |
| <b>Certifications and Standards</b> |  |                  |                                    |                                  |   |                  |                                    |                                  |
| IVD/MD                              | X  |                  | X                                  |                                  | X   |                  | X                                  |                                  |
| Certifications                      | EN/UL/IEC 61010-1, EN/UL/IEC 61010-2-020 and 61010-2-101, EN/UL/IEC 61326-1, EN/UL/IEC 61326-2-6, FCC part 15  |                  |                                    |                                  |   |                  |                                    |                                  |
| Standards                           | ISO 14971, ISO 13485, ISO 9001   |                  |                                    |                                  |   |                  |                                    |                                  |
| <b>Ordering Information</b>         |  |                  |                                    |                                  |   |                  |                                    |                                  |
| Ordering Information                | Multifuge X4 Pro   |                  | Multifuge X4R Pro                  |                                  | Megafuge ST4 Plus                                   |                  | Megafuge ST4R Plus                 |                                  |
|                                     | IVD  | General Use Only | IVD                                | General Use Only                 | IVD   | General Use Only | IVD                                | General Use Only                 |
| 230V <sup>§</sup>                   | 75009500*  | 75009900         | 75009515* / 75009615* <sup>§</sup> | 75009915 / 75009815 <sup>§</sup> | 75009503*   | 75009903         | 75009518* / 75009618* <sup>§</sup> | 75009918 / 75009818 <sup>§</sup> |
| 120V                                | 75009501*  | N/A              | 75009516*                          | N/A                              | 75009504*   | N/A              | 75009519*                          | N/A                              |

\*Indicates a centrifuge, rotor and/or adapter product approved for use in clinical applications; see user manual for details.

<sup>§</sup>220V / 60 Hz [Korea, etc.]





Thermo Scientific™ Multifuge™ X4RF  
Pro Floor Model



Thermo Scientific™ Megafuge™ ST4RF  
Plus Floor Model

#### 4 L Floor Model Centrifuges: specifications and ordering information

| Specifications                      | Multifuge X4F Pro  |                  | Multifuge X4RF Pro |                  | Megafuge ST4F Plus                                  |                  | Megafuge ST4RF Plus |                  |
|-------------------------------------|--|------------------|--------------------|------------------|---|------------------|---------------------|------------------|
|                                     | IVD  | General Use Only | IVD                | General Use Only | IVD   | General Use Only | IVD                 | General Use Only |
| <b>Swinging Buckets Rotors</b>      |  |                  |                    |                  |   |                  |                     |                  |
| Maximum Capacity                    | 4 x 1000 mL with TX-1000 rotor   |                  |                    |                  |   |                  |                     |                  |
| Maximum Speed                       | 6100 rpm with H-Flex HS4 rotor   |                  |                    |                  | 5300 rpm with BIOShield 1000A rotor                 |                  |                     |                  |
| Maximum RCF                         | 7197 x g with H-Flex HS4 rotor   |                  |                    |                  | 5590 x g with BIOShield 1000A rotor                 |                  |                     |                  |
| <b>Fixed Angle Rotors</b>           |  |                  |                    |                  |   |                  |                     |                  |
| Maximum Capacity                    | 6 x 250 mL with F14-6x250LE rotor  |                  |                    |                  | 6 x 100 mL with F15-6x100 or F10-6x100 rotor        |                  |                     |                  |
| Maximum Speed                       | 15200 rpm with F21-48x2, Microliter 48x2 or Microliter 30x2  |                  |                    |                  |   |                  |                     |                  |
| Maximum RCF                         | 25830 x g with Microliter 30x2   |                  |                    |                  |   |                  |                     |                  |
| <b>Centrifuge Details</b>           |  |                  |                    |                  |   |                  |                     |                  |
| Control System                      | Microprocessor   |                  |                    |                  |   |                  |                     |                  |
| Drive System                        | Direct, Brushless induction low profile motor  |                  |                    |                  |   |                  |                     |                  |
| Accel/Decel Profiles                | Choices of 9 Accel / 10 Decel Rates  |                  |                    |                  |   |                  |                     |                  |
| Material                            | front, top, sides: PC-ABS plastic painted with 2K PUR-based lacquer; metal housing: cold rolled steel with powder paint; centrifuge bowl: stainless steel; centrifuge feet: rubber |                  |                    |                  |   |                  |                     |                  |
| Safety Features                     | SMARTSpin Imbalance detection, finger-pinch prevention, crash-proof construction   |                  |                    |                  |   |                  |                     |                  |
| Warranty                            | 5 Year Limited (2 years standard warranty + 3 additional years on motor and refrigeration)   |                  |                    |                  |   |                  |                     |                  |
| Includes                            | printed English user manual, USB stick with 28 languages of user manual, corrosion resistance oil (70009824), power cord, declaration of conformity                                |                  |                    |                  |   |                  |                     |                  |
| Temperature Range                   | N/A  | -10°C to +40°C   |                    | N/A              | -10°C to +40°C                                      |                  |                     |                  |
| Number of Compatible Rotors         | 17   | 17               |                    | 12               | 12  |                  |                     |                  |
| <b>Display Details</b>              |  |                  |                    |                  |   |                  |                     |                  |
| Display                             | Full color touch screen interface  |                  |                    |                  | Push button and high contrast LCD interface         |                  |                     |                  |
| Run Time                            | max 99h, 59min, 59sec; also with continuous and customizable pulse   |                  |                    |                  | max 9h, 59min; also with continuous and pulse modes |                  |                     |                  |
| Timer                               | count up or down   |                  |                    |                  | count down only                                     |                  |                     |                  |
| Program Storage                     | up to 100 run programs   |                  |                    |                  | up to 6 run programs                                |                  |                     |                  |
| Programmability                     | via easy access touch screen menu  |                  |                    |                  | via 6 direct access buttons                         |                  |                     |                  |
| <b>Dimensions, Weight</b>           |  |                  |                    |                  |   |                  |                     |                  |
| Width (inches) Exterior             | 22.3   | 22.3             |                    | 22.3             | 22.3  |                  |                     |                  |
| Width (cm) Exterior                 | 56.6   | 56.6             |                    | 56.6             | 56.6  |                  |                     |                  |
| Depth (inches) Exterior             | 27.2   | 27.2             |                    | 27.2             | 27.2  |                  |                     |                  |
| Depth (cm) Exterior                 | 69.0   | 69.0             |                    | 69.0             | 69.0  |                  |                     |                  |
| Height (inches) Exterior            | 32.8   | 32.8             |                    | 32.8             | 32.8  |                  |                     |                  |
| Height (cm) Exterior                | 83.5   | 83.5             |                    | 83.5             | 83.5  |                  |                     |                  |
| Height (inches) Open Cover          | 54.1   | 54.1             |                    | 54.1             | 54.1  |                  |                     |                  |
| Height (cm) Open Cover              | 135  | 135              |                    | 135              | 135   |                  |                     |                  |
| Footprint Dimensions (inches)       | 22.3 x 23.1  | 22.3 x 23.0      |                    | 22.3 x 23.1      | 22.3 x 23.0   |                  |                     |                  |
| Footprint Dimensions (cm)           | 56.6 x 58.8  | 56.6 x 58.4      |                    | 56.6 x 58.8      | 56.6 x 58.4   |                  |                     |                  |
| Net Weight (lbs)                    | 335  | 319              |                    | 335              | 319   |                  |                     |                  |
| Net Weight (kgs)                    | 152  | 145              |                    | 152              | 145   |                  |                     |                  |
| <b>Certifications and Standards</b> |  |                  |                    |                  |   |                  |                     |                  |
| IVD/MD                              | X  |                  | X                  |                  | X   |                  | X                   |                  |
| Certifications                      | EN/UL/IEC 61010-1, EN/UL/IEC 61010-2-020 and 61010-2-101, EN/UL/IEC 61326-1, EN/UL/IEC 61326-2-6, FCC part 15  |                  |                    |                  |   |                  |                     |                  |
| Standards                           | ISO 14971, ISO 13485, ISO 9001   |                  |                    |                  |   |                  |                     |                  |
| <b>Ordering Information</b>         |  |                  |                    |                  |   |                  |                     |                  |
|                                     | Multifuge X4F Pro  |                  | Multifuge X4RF Pro |                  | Megafuge ST4F Plus                                  |                  | Megafuge ST4RF Plus |                  |
|                                     | IVD  | General Use Only | IVD                | General Use Only | IVD   | General Use Only | IVD                 | General Use Only |
| 230V                                | 75009530*  | 75009930         | 75009536*          | 75009936         | 75009961*   | 75009947         | 75009962*           | 75009948         |
| 120V                                | 75009531*  | N/A              | 75009537*          | N/A              | 75009960*   | N/A              | 75009946*           | N/A              |

\*Indicates a centrifuge, rotor and/or adapter product approved for use in clinical applications; see user manual for details.



Thermo Scientific™ Multifuge™ X1R and X1 Pro



Thermo Scientific™ Megafuge™ ST1 and ST1R Plus

## 1.6 L Benchtop Centrifuges: specifications and ordering information

| Specifications                      | Multifuge X1 Pro   |                  | Multifuge X1R Pro |                  | Megafuge ST1 Plus                                   |                  | Megafuge ST1R Plus |                  |
|-------------------------------------|--|------------------|-------------------|------------------|---|------------------|--------------------|------------------|
|                                     | IVD  | General Use Only | IVD               | General Use Only | IVD   | General Use Only | IVD                | General Use Only |
| <b>Swinging Buckets Rotors</b>      |  |                  |                   |                  |   |                  |                    |                  |
| Maximum Capacity                    | 4 x 400 mL with TX-400 rotor   |                  |                   |                  |   |                  |                    |                  |
| Maximum Speed                       | 6300 rpm with BIOShield 720 rotor  |                  |                   |                  | 5300 rpm with BIOShield 720 rotor                   |                  |                    |                  |
| Maximum RCF                         | 7188 x g with BIOShield 720 rotor  |                  |                   |                  | 5088 x g with BIOShield 720 rotor                   |                  |                    |                  |
| <b>Fixed Angle Rotors</b>           |  |                  |                   |                  |   |                  |                    |                  |
| Maximum Capacity                    | 6x100 mL with F15 6x100y   |                  |                   |                  | 6x100 mL with F15 6x100y                            |                  |                    |                  |
| Maximum Speed                       | 15200 rpm with F21-48x2, Microliter 48x2 or Microliter 30x2  |                  |                   |                  |   |                  |                    |                  |
| Maximum RCF                         | 25830 x g with Microliter 30x2   |                  |                   |                  |   |                  |                    |                  |
| <b>Centrifuge Details</b>           |  |                  |                   |                  |   |                  |                    |                  |
| Control System                      | Microprocessor   |                  |                   |                  |   |                  |                    |                  |
| Drive System                        | Direct, Brushless induction low profile motor  |                  |                   |                  |   |                  |                    |                  |
| Accel/Decel Profiles                | Choices of 9 Accel / 10 Decel Rates  |                  |                   |                  |   |                  |                    |                  |
| Material                            | front, top, sides: PC-ABS plastic painted with 2K PUR-based lacquer; metal housing: cold rolled steel with powder paint; centrifuge bowl: stainless steel; centrifuge feet: rubber |                  |                   |                  |   |                  |                    |                  |
| Safety Features                     | SMARTSpin imbalance detection, finger-pinch prevention, crash-proof construction   |                  |                   |                  |   |                  |                    |                  |
| Warranty                            | 5 Year Limited (2 years standard warranty + 3 additional years on motor and refrigeration)   |                  |                   |                  |   |                  |                    |                  |
| Includes                            | printed English user manual, USB stick with 28 languages of user manual, corrosion resistance oil (70009824), power cord, declaration of conformity                                |                  |                   |                  |   |                  |                    |                  |
| Temperature Range                   | N/A  |                  | -10°C to +40°C    |                  | N/A   |                  | -10°C to +40°C     |                  |
| Number of Compatible Rotors         | 16   |                  | 16                |                  | 14  |                  | 14                 |                  |
| <b>Display Details</b>              |  |                  |                   |                  |   |                  |                    |                  |
| Display                             | Full color touch screen interface  |                  |                   |                  | Push button and high contrast LCD interface         |                  |                    |                  |
| Run Time                            | max 99h, 59min, 59sec; also with continuous and customizable pulse   |                  |                   |                  | max 9h, 59min; also with continuous and pulse modes |                  |                    |                  |
| Timer                               | count up or down   |                  |                   |                  | count down only                                     |                  |                    |                  |
| Program Storage                     | up to 100 run programs   |                  |                   |                  | up to 6 run programs                                |                  |                    |                  |
| Programmability                     | via easy access touch screen menu  |                  |                   |                  | via 6 direct access buttons                         |                  |                    |                  |
| <b>Dimensions, Weight</b>           |  |                  |                   |                  |   |                  |                    |                  |
| Width (inches) Exterior             | 17.5   |                  | 24.6              |                  | 17.5  |                  | 24.6               |                  |
| Width (cm) Exterior                 | 44.5   |                  | 62.5              |                  | 44.5  |                  | 62.5               |                  |
| Depth (inches) Exterior             | 26   |                  | 26                |                  | 26  |                  | 26                 |                  |
| Depth (cm) Exterior                 | 66   |                  | 66                |                  | 66  |                  | 66                 |                  |
| Height (inches) Exterior            | 14.3   |                  | 14.2              |                  | 14.3  |                  | 14.2               |                  |
| Height (cm) Exterior                | 36.2   |                  | 36.1              |                  | 36.2  |                  | 36.1               |                  |
| Height (inches) Open Cover          | 33.6   |                  | 33.6              |                  | 33.6  |                  | 33.6               |                  |
| Height (cm) Open Cover              | 85.5   |                  | 85.5              |                  | 85.5  |                  | 85.5               |                  |
| Footprint Dimensions (inches)       | 17.5 x 23.1  |                  | 24.6 x 23.0       |                  | 17.5 x 23.1   |                  | 24.6 x 23.0        |                  |
| Footprint Dimensions (cm)           | 44.5 x 58.8  |                  | 62.5 x 58.4       |                  | 44.5 x 58.8   |                  | 62.5 x 58.4        |                  |
| Net Weight (lbs)                    | 134  |                  | 207               |                  | 134   |                  | 207                |                  |
| Net Weight (kgs)                    | 61   |                  | 94                |                  | 61  |                  | 94                 |                  |
| <b>Certifications and Standards</b> |  |                  |                   |                  |   |                  |                    |                  |
| IVD/MD                              | X  |                  | X                 |                  | X   |                  | X                  |                  |
| Certifications                      | EN/UL/IEC 61010-1, EN/UL/IEC 61010-2-020 and 61010-2-101, EN/UL/IEC 61326-1, EN/UL/IEC 61326-2-6, FCC part 15  |                  |                   |                  |   |                  |                    |                  |
| Standards                           | ISO 14971, ISO 13485, ISO 9001   |                  |                   |                  |   |                  |                    |                  |
| Ordering Information                | Multifuge X1 Pro   |                  | Multifuge X1R Pro |                  | Megafuge ST1 Plus                                   |                  | Megafuge ST1R Plus |                  |
|                                     | IVD  | General Use Only | IVD               | General Use Only | IVD   | General Use Only | IVD                | General Use Only |
| 230V                                | 75009210*  | 75009710         | 75009250*         | 75009750         | 75009230*   | 75009730         | 75009270*          | 75009770         |
| 120V                                | 75009210*  | N/A              | 75009251*         | N/A              | 75009230*   | N/A              | 75009271*          | N/A              |

\*Indicates a centrifuge, rotor and/or adapter product approved for use in clinical applications; see user manual for details.



# Swinging buckets rotors



| Thermo Scientific Rotor Name      | TX-1000  | TX-750       | BIOShield 1000A | TX-400       | BIOShield 720  |
|-----------------------------------|--|--------------|-----------------|--------------|----------------|
| Maximum Capacity (mL)             | 4 x 1000 mL  | 4 x 750 mL   | 4 x 250 mL      | 4 x 400 mL   | 4 x 180 mL     |
| Maximum Speed (rpm <sup>1</sup> ) | 4200 rpm   | 4700 rpm     | 6000 rpm        | 5000 rpm     | 6300 rpm       |
| Maximum RCF (x g <sup>1</sup> )   | 4122 x g   | 4816 x g     | 7164 x g        | 4696 x g     | 7188 x g       |
| Biocontainment                    | ✓ (Optional)   | ✓ (Optional) | ✓ (Integrated)  | ✓ (Optional) | ✓ (Integrated) |
| Multifuge X4 Pro/X4F Pro          | ✓  | ✓            | ✓               |              |                |
| Megafuge ST4 Plus/ST4F Plus       | ✓  | ✓            | ✓               |              |                |
| Multifuge X1 Pro                  |  |              |                 | ✓            | ✓              |
| Megafuge ST1 Plus                 |  |              |                 | ✓            | ✓              |
| Maximum Capacity                  | 1000 mL Bio-Bottle   | 4            | –               | –            | –              |
|                                   | 750 mL Bio-Bottle  | 4            | 4               | –            | –              |
|                                   | 500 mL Thermo Scientific™ Nalgene™ Bottle                                | 4            | –               | –            | –              |
|                                   | 500 mL Corning Bottle  | 4            | 4               | –            | –              |
|                                   | 250 mL Nalgene Bottle  | 8            | 4               | 4            | –              |
|                                   | 250 mL Thermo Scientific™ Nunc™ Conical Bottle or Corning Conical Bottle | 4            | *               | –            | –              |
|                                   | 225 mL - 175 mL Conical Bottle   | 8            | 4               | 4            | –              |
|                                   | 50 mL Conical Tube   | 40           | 28              | 16           | 8              |
|                                   | 50 mL Skirted Conical Tube   | 20           | 20              | 16           | –              |
|                                   | 50 mL Thermo Scientific™ Nalgene™ Oak Ridge Tube                         | 48           | 28              | –            | 16             |
|                                   | 30 mL Thermo Scientific™ Sterilin™ Universal Tube                        | 28           | 28              | 16           | 16             |
|                                   | 15 mL Conical Tube   | 96           | 56              | 36           | 24             |
|                                   | 10 mL Blood Collection Tube (16 x 100 mm)                                | 148          | 84              | 64           | 48             |
|                                   | 5/7 mL Blood Collection Tube (13 x 75-100 mm)                            | 196          | 108             | 80           | 48             |
|                                   | 4.5/6 mL Blood Collection Tube   | 164          | 108             | –            | –              |
|                                   | 1.5/2 mL Microtube   | 192          | 192             | 224          | 160            |
|                                   | Microplate   | 24           | 16              | –            | –              |

\*Fits with 4 x 250 ml Corning conical bottles and 4 x 200 ml Nunc conical bottles.

# Swinging buckets rotors



| Thermo Scientific Rotor Name                  | TX-200       | HIGHPlate 6000 | Fiberlite H3-LV | M-20          | H-Flex 1 | H-Flex HS4 |
|---|--------------|----------------|-----------------|---------------|----------|------------|
| Maximum Capacity (mL)                         | 4 x 180 mL   | 10 Microplates | 28 Microplates  | 6 Microplates | 16x50 ml | 16x50 ml   |
| Maximum Speed (rpm <sup>1</sup> )             | 5500 rpm     | 6300 rpm       | 3600 rpm        | 4000 rpm      | 4700 rpm | 6100 rpm   |
| Maximum RCF (x g <sup>1</sup> )               | 5580 x g     | 6168 x g       | 2738 x g        | 2272 x g      | 4297 x g | 7197 x g   |
| Biocontainment                                | ✓ (Optional) | ✓ (Integrated) |                 | ✓ (Optional)  | ✓        | ✓          |
| Multifuge X4 Pro/X4F Pro                      |              | ✓              | ✓               | ✓             |          | ✓          |
| Megafuge ST4 Plus/ST4F Plus                   |              |                |                 | ✓             |          |            |
| Multifuge X1 Pro                              | ✓            |                |                 | ✓             | ✓        |            |
| Megafuge ST1 Plus                             | ✓            |                |                 | ✓             | ✓        |            |
| Maximum Capacity  1000 mL Bio-Bottle          | -            | -              | -               | -             | -        | -          |
| 750 mL Bio-Bottle                             | -            | -              | -               | -             | -        | -          |
| 500 mL Nalgene Bottle                         | -            | -              | -               | -             | -        | -          |
| 500 mL Corning Bottle                         | -            | -              | -               | -             | -        | -          |
| 250 mL Nalgene Bottle                         | -            | -              | -               | -             | -        | -          |
| 250 mL Corning Bottle                         | -            | -              | -               | -             | -        | -          |
| 225 mL - 175 mL Conical Bottle                | -            | -              | -               | -             | -        | -          |
| 50 mL Conical Tube                            | 4            | -              | -               | -             | 16       | 16         |
| 50 mL Skirted Conical Tube                    | 4            | -              | -               | -             | -        | -          |
| 50 mL Nalgene Oak Ridge Tube                  | -            | -              | -               | -             | -        | -          |
| 30 mL Sterilin Universal Tube                 | 4            | -              | -               | -             | -        | -          |
| 15 mL Conical Tube                            | 20           | -              | -               | -             | 36       | 36         |
| 10 mL Blood Collection Tube (16 x 100 mm)     | 28           | -              | -               | -             | 66       | 66         |
| 5/7 mL Blood Collection Tube (13 x 75-100 mm) | 32           | -              | -               | -             | 84       | 84         |
| 4.5/6 mL Blood Collection Tube                | 32           | -              | -               | -             | -        | -          |
| 1.5/2 mL Microtube                            | 48           | -              | -               | -             | -        | -          |
| Microplate                                    | -            | 10             | 28              | 6             | 10       | 10         |

<sup>1</sup>Maximum speed based on top performance models.

Biocontainment certification by Public Health England, Porton Down, UK.

Labware not shown to scale.

# Rotors and adapters for swinging buckets rotors



TX-1000 Swinging Bucket Rotor<sup>1</sup>, 90°, R<sub>max</sub> 209 mm

| Centrifuge                 | Maximum Speed (rpm) | Maximum RCF (x g) |
|----------------------------|---------------------|-------------------|
| Multifuge X4R Pro/X4RF Pro | 4200                | 4122              |
| Multifuge X4 Pro/X4F Pro   | 3800                | 3374              |
| Megafuge ST4R/ST4RF Plus   | 4200                | 4122              |
| Megafuge ST4/ST4F Plus     | 3800                | 3374              |
| Multifuge X1 Pro           | n/a                 | n/a               |
| Megafuge ST1 Plus          | n/a                 | n/a               |

| Cat. No.                                      | Adapter Image | Description  | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|---|---------------|--|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b>                  |               |  |                                      |                                     |
| 75003017                                      |               | TX-1000 Rotor Cross  | 4 x 1,000 mL or 24 microplate        |                                     |
| 75003001                                      |               | TX-1000 Buckets (Set of 4)   |                                      |                                     |
| 75007309                                      |               | TX-1000 ClickSeal Biocontainment Lids (Set of 4) ✦   |                                      |                                     |
| 75007001                                      |               | Replacement O-rings  |                                      |                                     |
| 75007300                                      |               | 1000 mL Bio-Bottle - Polypropylene (Set of 4)  |                                      |                                     |
| <b>Adapters for TX-1000 Rotor (Sets of 4)</b> |               |  |                                      |                                     |
| 75007301                                      | 1             | 1000 mL Bio-Bottle   | 4 x 1,000 mL                         | 126 x 140                           |
| 75007304                                      | 2             | 750 mL Polypropylene Bio-Bottle and any TX-750 Round adapter   | 4 x 750 mL                           | 98 x 133                            |
| 75004253                                      | 3             | 500 mL Nalgene Bottle  | 4 x 500 mL                           | 70 x 160                            |
| 75007302                                      | 4             | 500 mL Corning Bottle  | 4 x 500 mL                           | 98 x 133                            |
| 75005392                                      | 5             | 250 mL Nunc Conical Bottle or 250 mL Corning Conical Bottle or 200 mL Nunc Bottle or 175 mL Nalgene Conical Bottle | 4 x 250 mL                           | 62 x 145                            |
| 75007305                                      | 6             | 250 mL Nalgene Bottle  | 8 x 250 mL                           | 62 x 145                            |
| 75007305                                      | 6             | 225 mL BD Falcon™ (requires BD #352090)  | 8 x 225 mL                           | 62 x 130                            |
| 75007305                                      | 6             | 200 mL Nunc Conical Bottle (requires Nunc #377585)   | 8 x 200 mL                           | 62.5 x 139                          |
| 75003674                                      | 7             | 50 mL Conical Tube   | 40 x 50 mL                           | 30 x 120                            |
| 75004255                                      | 8             | 50 mL Double Biocontainment Vessel for 50 mL Conical Tube (can be combined with ClickSeal lids)                    | 20 x 50 mL                           | 30 x 120                            |
| 75004252                                      | 9             | 50 mL Nalgene Oak Ridge Tube   | 48 x 50 mL                           | 29.5 x 120                          |
| 75007306                                      | 10            | 15 mL Conical Tube   | 96 x 15 mL                           | 17.5 x 121                          |
| 75003672                                      | 11            | 10 mL Blood Collection Tube (16 x 100 mm) or Thermo Scientific™ Savant Corex™/ Kimble™ Tubes                       | 148 x 10 mL                          | 17 x 110                            |
| 75003697                                      | 12            | 9/10 mL Blood Collection Tube (Sarstedt™)  | 100 x 9/10 mL                        | 17 x 110                            |
| 75003671                                      | 13            | 5/7 mL Blood Collection Tube (13 x 75-100 mm)  | 196 x 5/7 mL                         | 14 x 110                            |
| 75003709                                      | 14            | 4.5/6 mL Blood Collection Tube (Greiner™)  | 164 x 4.5/6 mL                       | 14 x 110                            |
| 75007303                                      | 15            | Microplate Carriers  | 4 x 6 Standard or 4 x 2 Deep-Well    | Height < 88 mm                      |
| 75003829                                      | 16            | Small Bag/Cell Culture Bags 4 x 2 Bags (< 350 mL)  | 4 x 2 Bags                           |                                     |

## Adapters



<sup>1</sup>Rotor, buckets and lids sold separately.

✦ Biocontainment certification by Public Health England, Porton Down, UK.

# Rotors and adapters for swinging buckets rotors



TX-750 Swinging Bucket Rotor<sup>1</sup>, 90°, R<sub>max</sub> 195 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | 4700                | 4816              |
| Megafuge ST4/ST4F Plus   | 4700                | 4816              |
| Multifuge X1 Pro         | n/a                 | n/a               |
| Megafuge ST1 Plus        | n/a                 | n/a               |

| Cat. No.  | Adapter Image | Description  | Rotor Capacity (places x volume, mL)                   | Maximum Tube Dimensions (Ø x L, mm) |
|---|---------------|--|--|-------------------------------------|
| <b>Rotor and Accessories</b>  |               |  |  |                                     |
| 75003180  |               | TX-750 Rotor Cross   |  |                                     |
| 75003608  |               | TX-750 Round Buckets (Set of 4)  | 4 x 750 mL   |                                     |
| 75003609  |               | TX-750 Round ClickSeal Biocontainment Lids (Set of 4)                            |  |                                     |
| 75003610  |               | Replacement TX-750 Round O-rings for lids (Set of 4)                             |  |                                     |
| 75003699  |               | 750 mL Bio-Bottle - Polypropylene (Set of 12)                                    |  |                                     |
| 75003795  | 1             | Microplate Carriers and T-75 Flask (includes tray and pads) (Set of 2)           | 4 Standard Microplate or 1 Deep well plate per carrier | Maximum height 60 mm                |
| 75003617  | 1             | Microplate Carriers and T-75 Flask (includes tray and pads) (Set of 4)           |  |                                     |
| <b>Adapters for TX-750 Rotor (Sets of 4, unless stated otherwise)</b> |               |  |  |                                     |
| Direct  |               | 750 mL Bio-Bottle  | 4 x 750 mL   | 98 x 133                            |
| Direct  |               | 500 mL Corning Conical Bottle  | 4 x 500 mL   | 98 x 133                            |
| 75003792  | 2             | 250 mL Corning Conical Bottle (unsealed buckets only)                            | 4 x 250 mL   | 62.5 x 139                          |
| 75003710  | 3             | 250 mL Nalgene Bottle  | 4 x 250 mL   | 62.5 x 139                          |
| 75003710  | 3             | 225 mL/175 mL BD Falcon Conical Bottle (requires BD #352090) (Open buckets only) | 4 x 225 mL   | 62.5 x 139                          |
| 75003710  | 3             | 200 mL Nunc Conical Bottle (requires #377585) (Open buckets only)                | 4 x 200 mL   | 62.5 x 139                          |
| 75003710  | 3             | 175 mL Nalgene Conical Bottle (requires #DS3126-0175) (Open buckets only)        | 4 x 175 mL   | 62.5 x 139                          |
| 75003713  | 4             | 100 mL Round Bottom Open-Top Tube  | 8 x 100 mL   | 45 x 123                            |
| 75003638  | 5             | 50 mL Conical Tube   | 28 x 50 mL   | 30 x 120                            |
| 75003824  | 6             | 50 mL Conical or Skirted Tube  | 20 x 50 mL   | 30 x 120                            |
| 75003715  | 7             | 50 mL Nalgene Oak Ridge Tube   | 28 x 50 mL   | 29.5 x 120                          |
| 75003716  | 8             | 30 mL Sterilin Universal Tube  | 28 x 30 mL   | 25.5 x 120                          |
| 75003639  | 9             | 15 mL Conical Tube   | 56 x 15 mL   | 17 x 122                            |
| 75003719  | 10            | 15 mL Blood Collection Tube (17 x 125 mm) (inner circle only)                    | 32 x 15 mL   | 17 x 134                            |
| 75003719  | 11            | 10 mL Blood Collection (16 x 100 mm) or 15 mL Savant Corex/Kimble Tube           | 84 x 10/15 mL  | 17 x 117                            |
| 75003718  | 11            | 14 mL Round or Conical Urine Tube  | 48 x 14 mL   | 18 x 124                            |
| 75003723  | 12            | 5/7 mL or 4.5/6 mL Blood Collection Tube (13 x 75-100 mm)                        | 108 x 5/7 mL   | 13 x 116                            |
| 75003724  | 13            | 5 mL RIA or Round Bottom Tube (with out cap)                                     | 148 x 5 mL   | 13 x 111                            |
| 75003732  | 14            | 5/7 mL Round Bottom Tube (without cap) with Decanting Aid                        | 148 x 5/7 mL   | 13 x 111                            |
| 75003733  | 14            | 1.5/2 mL Microtube   | 192 x 2 mL   | 11 x 50                             |
| 75008383  | 15            | T-75 Thermo Scientific™ Nunc™ Easy Flask (Set of 2)                              | 4 x T-75   | –                                   |
| 75008384  | 16            | T-25 Nunc Easy Flask (Set of 2)  | 8 x T-25   | –                                   |

## Adapters



<sup>1</sup>Rotor, buckets and lids sold separately.

Biocontainment certification by Public Health England, Porton Down, UK.




# Rotors and adapters for swinging buckets rotors

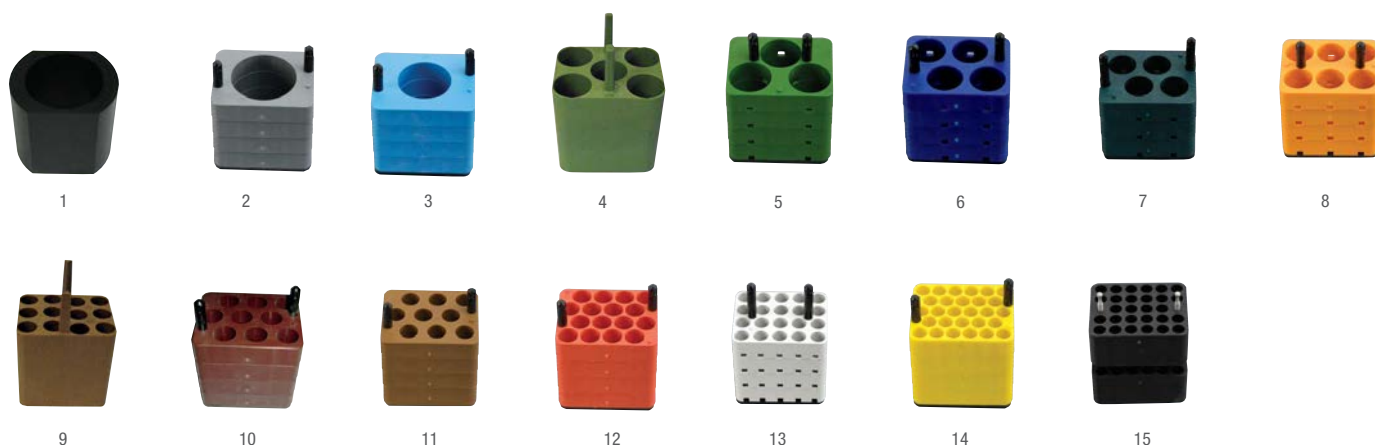


TX-750 Swinging Bucket Rotor, 90°, R<sub>max</sub> 195 mm

| Centrifuge   | Maximum Speed (rpm) | Maximum RCF (x g) |
|--|---------------------|-------------------|
| Multifuge X4R Pro/X4RF Pro, Megafuge ST4R/ST4RF Plus, 230V           | 4700                | 4816              |
| Multifuge X4 Pro/X4F Pro, Megafuge ST4/ST4F Plus, 230V               | 4500                | 4415              |
| Multifuge X4 Pro/X4F Pro Series, Megafuge ST4/ST4F Plus Series, 120V | 4300                | 4031              |
| Multifuge X1 Pro, Megafuge ST1 Plus                                  | n/a                 | n/a               |

| Cat. No.                                     | Adapter Image | Description  | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|--|---------------|--|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b>                 |               |  |                                      |                                     |
| 75003180                                     |               | TX-750 Rotor Cross   |                                      |                                     |
| 75003614                                     |               | TX-750 Rectangular Buckets (Set of 4)  | 4 x 250 mL                           |                                     |
| 75003615                                     |               | TX-750 Rectangular Click Seal Biocontainment Lids (Set of 4)  |                                      |                                     |
| 75003616                                     |               | Replacement TX-750 Rectangular O-rings for lids (Set of 4)   |                                      |                                     |
| <b>Adapters for TX-750 Rotor (Sets of 4)</b> |               |  |                                      |                                     |
| 75003737                                     | 1             | 250 mL Flat Bottom Bottle  | 4 x 250 mL                           | 63 x 130                            |
| 75003738                                     | 2             | 150 mL Round Bottom Open-Top Tube  | 4 x 150 mL                           | 56 x 124                            |
| 75003742                                     | 3             | 100 mL Round Bottom Open-Top Tube  | 4 x 100 mL                           | 46 x 124                            |
| 75003685                                     | 4             | 50 mL Conical Tube   | 20 x 50 mL                           | 30 x 121                            |
| 75003749                                     | 5             | 50 mL Round Bottom Tube  | 12 x 50 mL                           | 35 x 121                            |
| 75003750                                     | 6             | 45 mL Flat/Round Tube  | 16 x 45 mL                           | 30 x 121                            |
| 75003755                                     | 7             | 30 mL Sterilin Universal Tube  | 16 x 30 mL                           | 26 x 121                            |
| 75003756                                     | 8             | 25 mL DIN Round Bottom Tube  | 24 x 25 mL                           | 26 x 121                            |
| 75003684                                     | 9             | 15 mL Conical Tube   | 48 x 15 mL                           | 17 x 120                            |
| 75003758                                     | 10            | 14 mL Flanged Round Bottom Tube  | 36 x 14 mL                           | 18 x 121                            |
| 75003759                                     | 11            | 14 mL Round or Conical Urine Tube  | 36 x 15 mL                           | 17 x 124                            |
| 75003767                                     | 12            | 10 mL Blood Collection (16 x 100 mm) or 15 mL DIN Tube   | 64 x 10/15 mL                        | 17 x 118                            |
| 75003768                                     | 13            | 5/7 mL or 4.5/6 mL Blood Collection Tube   | 80 x 5/7 mL                          | 14 x 118                            |
| 75003769                                     | 14            | 5/7 mL Round Bottom Tube (13 x 75-100 mm)  | 112 x 5/7 mL                         | 13 x 119                            |
| 75003770                                     | 15            | 1.5/2 mL Microtube   | 224 x 2 mL                           | 11 x 50                             |

## Adapters




















 Biocontainment certification by Public Health England, Porton Down, UK.

# Rotors and adapters for swinging buckets rotors



BIOShield 1000A Swinging Bucket Rotor, 90°, R<sub>max</sub> 178 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | 6000                | 7164              |
| Megafuge ST4/ST4F Plus   | 5300                | 5590              |
| Multifuge X1 Pro         | n/a                 | n/a               |
| Megafuge ST1 Plus        | n/a                 | n/a               |

| Cat. No.  | Adapter Image   | Description   | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|---|---|---|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b>                          |   |   |                                      |                                     |
| 75003182  |       | BIOShield 1000A  | 4 x 250 mL                           |                                     |
| <b>Adapters for BIOShield 1000A Rotor (Sets of 4)</b> |   |   |                                      |                                     |
| 75003737  |     | 250 mL Flat Bottom Bottle   | 4 x 250 mL                           | 63 x 130                            |
| 75003738  |    | 150 mL Round Bottom Open-Top Tube   | 4 x 150 mL                           | 56 x 124                            |
| 75003742  |    | 100 mL Round Bottom Open-Top Tube   | 4 x 100 mL                           | 46 x 124                            |
| 75003749  |    | 50 mL Round Bottom Tube   | 12 x 50 mL                           | 35 x 121                            |
| 75003750  |    | 45 mL Flat/Round Tube   | 16 x 45 mL                           | 30 x 121                            |
| 75003755  |  | 30 mL Sterilin Universal Tube   | 16 x 30 mL                           | 30 x 121                            |
| 75003756  |  | 25 mL DIN Round Bottom Tube   | 24 x 25 mL                           | 26 x 121                            |
| 75003758  |  | 14 mL Flanged Round Bottom Tube   | 36 x 14 mL                           | 18 x 121                            |
| 75003759  |     | 14 mL Round or Conical Urine Tube   | 36 x 15 mL                           | 17 x 124                            |
| 75003767  |    | 10 mL Blood Collection (16 x 100 mm) or 15 mL DIN Tube  | 64 x 10/15 mL                        | 17 x 118                            |
| 75003768  |    | 5/7 mL or 4.5/6 mL Blood Collection Tube  | 80 x 5/7 mL                          | 14 x 118                            |
| 75003769  |    | 5/7 mL Round Bottom Tube (13 x 75-100 mm)   | 112 x 5/7 mL                         | 13 x 119                            |
| 75003770  |    | 1.5/2 mL Microtube  | 224 x 2 mL                           | 11 x 50                             |
| 75003643  |  | 50 mL Conical Tube  | 16 x 50 mL                           | 30 x 121                            |
| 75003642  |  | 15 mL Conical Tube  | 36 x 15 mL                           | 17 x 120                            |

## Adapters



 Biocontainment certification by Public Health England, Porton Down, UK.

# Rotors and adapters for swinging buckets rotors



TX-400 Swinging Bucket Rotor<sup>1</sup>, 90°, R<sub>max</sub> 168 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | n/a                 | n/a               |
| Megafuge ST4/ST4F Plus   | n/a                 | n/a               |
| Multifuge X1 Pro         | 5000                | 4696              |
| Megafuge ST1 Plus        | 5000                | 4696              |

| Cat. No.                                     | Adapter Image | Description  | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|--|---------------|--|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b>                 |               |  |                                      |                                     |
| 75003181                                     |               | TX-400 Rotor Cross   |                                      |                                     |
| 75003655                                     |               | TX-400 Round Buckets (Set of 4)                              | 4 x 400 mL                           |                                     |
| 75003656                                     |               | TX-400 Round ClickSeal Biocontainment Lids (Set of 4)        |                                      |                                     |
| 75003657                                     |               | Replacement TX-400 O-rings for lids (Set of 4)               |                                      |                                     |
| 75007585                                     |               | 400 mL Bio-Bottle - Polypropylene (Set of 12)                |                                      |                                     |
| <b>Adapters for TX-400 Rotor (Sets of 4)</b> |               |  |                                      |                                     |
| Direct                                       |               | 400 mL Bio-Bottle  | 4 x 400 mL                           | 80 x 125                            |
| 75003788                                     | 1             | 250 mL Nalgene Bottle  | 4 x 250 mL                           | 62 x 135                            |
| 75003788                                     | 1             | 200 mL Nunc Conical Bottle (requires Nunc #377585)           | 4 x 200 mL                           | 62 x 125                            |
| 75003788                                     | 1             | 225 mL/175 mL BD Falcon Conical Bottle (requires BD #352090) | 4 x 175 mL                           | 62 x 125                            |
| 75003708                                     | 2             | 100 mL Round Bottom Open-Top Tube                            | 4 x 100 mL                           | 45 x 117                            |
| 75003707                                     | 3             | 50 mL DIN Round Bottom Tube                                  | 12 x 50 mL                           | 34.5 x 105                          |
| 75003799                                     | 4             | 50 mL Nalgene Oak Ridge Tube                                 | 16 x 50 mL                           | 29.5 x 114                          |
| 75003683                                     | 5             | 50 mL Conical Tube   | 16 x 50 mL                           | 30 x 116                            |
| 75003703                                     | 6             | 30/25 mL DIN Round/Flat Bottom Tube                          | 20 x 30 mL                           | 25.5 x 108                          |
| 75003706                                     | 7             | 30 mL Sterilin Universal Tube                                | 12 x 30 mL                           | 25 x 110                            |
| 75003682                                     | 8             | 15 mL Conical Tube   | 36 x 15 mL                           | 17 x 121                            |
| 75003794                                     | 9             | 15 mL Blood Collection Tube (17 x 125 mm)                    | 16 x 15 mL                           | 17 x 131                            |
| 75003704                                     | 10            | 15 mL Round Bottom Tube (Sarstedt)                           | 40 x 15 mL                           | 17 x 105                            |
| 75003798                                     | 11            | 14 mL Round or Conical UrineTube                             | 28 x 14 mL                           | 17 x 112                            |
| 75003681                                     | 12            | 10 mL Blood Collection (16 x 100 mm)                         | 56 x 10/15 mL                        | 16 x 113                            |
| 75003680                                     | 13            | 5/7 mL Blood Collection Tube (13 x 75-100 mm)                | 76 x 5/7 mL                          | 13 x 110                            |
| 75003825                                     | 14            | 4.5/6 mL Blood Collection Tube (Greiner)                     | 64 x 4.5/6 mL                        | 13 x 110                            |
| 75003793                                     | 15            | 3 mL RIA or Round Bottom Tube (without cap)                  | 76 x 3/5 mL                          | 11 x 110                            |
| 75003700                                     | 16            | 1.5/2 mL Microtube   | 136 x 2 mL                           | 11 x 45                             |

## Adapters



<sup>1</sup>Rotor, buckets and lids sold separately.
















Biocontainment certification by Public Health England, Porton Down, UK.

# Rotors and adapters for swinging buckets rotors



BIOShield 720 Swinging Bucket Rotor, 90°, R<sub>max</sub> 162 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | n/a                 | n/a               |
| Megafuge ST4/ST4F Plus   | n/a                 | n/a               |
| Multifuge X1 Pro         | 6300                | 7188              |
| Megafuge ST1 Plus        | 5300                | 5088              |

| Cat. No.                                   | Adapter Image   | Description   | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|--|---|---|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b>               |   |   |                                      |                                     |
| 75003183                                   |     | BIOShield 720  | 4 x 180 mL                           | n/a                                 |
| 75003693                                   |    | 180 mL Bio-Bottle - Polypropylene (Set of 12)   |                                      |                                     |
| <b>BIOShield 720A Adapters (Sets of 4)</b> |   |   |                                      |                                     |
| 75003813                                   |    | 150 mL Round Bottom Open-Top Tube   | 4 x 150 mL                           | 50 x 122                            |
| 75003814                                   |    | 100 mL Round Bottom Open-Top Tube   | 4 x 100 mL                           | 44 x 120                            |
| 75003677                                   |    | 50 mL Conical Tube  | 8 x 50 mL                            | 30 x 116                            |
| 75003816                                   |    | 50 mL DIN Round Bottom Tube   | 8 x 50 mL                            | 34 x 109                            |
| 75003818                                   |    | 30 mL Sterilin Universal Tube   | 16 x 30 mL                           | 26 x 105                            |
| 75003817                                   |    | 25 mL DIN Round Bottom Tube   | 20 x 25 mL                           | 25 x 107                            |
| 75003678                                   |   | 15 mL Conical Tube  | 24 x 15 mL                           | 17 x 120                            |
| 75003820                                   |  | 15 mL Sarstedt Tube   | 44 x 15 mL                           | 17 x 103                            |
| 75003701                                   |  | 10 mL Blood Collection Tube (16 x 100 mm)   | 48 x 10 mL                           | 17 x 105                            |
| 75003821                                   |  | 5/7 mL Blood Collection Tube (13 x 75-100 mm)   | 48 x 5/7 mL                          | 13 x 106                            |
| 75003822                                   |  | 5/7 mL Round Bottom Open-Top Tube   | 80 x 5/7 mL                          | 13 x 104                            |
| 75003823                                   |  | 1.5/2 mL Conical Microtube  | 160 x 2 mL                           | 11 x 45                             |

## Adapters



 Biocontainment certification by Public Health England, Porton Down, UK.



















# Rotors and adapters for swinging buckets rotors



TX-200 Swinging Bucket Rotor<sup>1</sup>, 90°, R<sub>max</sub> 165 mm


| Centrifuge                       | Maximum Speed (rpm) | Maximum RCF (x g) |
|----------------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro         | n/a                 | n/a               |
| Megafuge ST4/ST4F Plus           | n/a                 | n/a               |
| Multifuge X1R Pro 230V and 120V  | 5500                | 5580              |
| Multifuge X1 Pro 120V            | 5250                | 5084              |
| Megafuge ST1R Plus 230V and 120V | 5500                | 5580              |
| Megafuge ST1 Plus 120V           | 5250                | 5084              |

| Cat. No.                                     | Adapter Image   | Description   | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|--|---|---|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b>                 |   |   |                                      |                                     |
| 75003658                                     |   | TX-200 Rotor Cross  |                                      |                                     |
| 75003659                                     |   | TX-200 Round Buckets (Set of 4)   | 4 x 180 mL                           |                                     |
| 75003660                                     |   | TX-200 Round ClickSeal Biocontainment Lids (Set of 4)  |                                      |                                     |
| 75003687                                     |   | Replacement TX-200 O-rings for lids (Set of 4)  |                                      |                                     |
| 75003800                                     |   | 180 mL Bio-Bottle - Polypropylene (Set of 12)   |                                      |                                     |
| <b>Adapters for TX-200 Rotor (Sets of 4)</b> |   |   |                                      |                                     |
| Direct                                       |   | 180 mL Bio-Bottle   | 4 x 180 mL                           | 56.5 x 123                          |
| 75003801                                     |    | 100 mL Round Bottom Open-Top Tube   | 4 x 100 mL                           | 48 x 122                            |
| 75003802                                     |    | 50 mL DIN Round Bottom Tube   | 4 x 50 mL                            | 35 x 126                            |
| 75003815                                     |    | 50 mL Round Bottom Tube   | 4 x 50 mL                            | 32 x 126                            |
| 75003803                                     |   | 50 mL Conical or Skirted Tube   | 4 x 50 mL                            | 30 x 126                            |
| 75003804                                     |  | 30 mL Sterilin Universal Tube   | 4 x 30 mL                            | 26 x 118                            |
| 75003805                                     |  | 25 mL DIN Round/Flat Bottom Tube  | 8 x 25 mL                            | 25 x 118                            |
| 75003806                                     |  | 20 mL Round Bottom Tube   | 12 x 25 mL                           | 22 x 125                            |
| 75003771                                     |  | 15 mL Conical Tube  | 20 x 20 mL                           | 17 x 121                            |
| 75003809                                     |  | 15 mL Blood Collection Tube   | 16 x 15 mL                           | 17 x 121                            |
| 75003807                                     |  | 14 mL Conical Urine Tube  | 8 x 14 mL                            | 17 x 114                            |
| 75003808                                     |  | 10 mL Blood Collection (16 x 100 mm) or 15 mL Savant Corex/Kimble Tube  | 28 x 10/15 mL                        | 17 x 121                            |
| 75003785                                     |  | 5/7 mL or 4.5/6 mL Blood Collection Tube (13 x 75-100 mm)   | 32 x 5/7 mL                          | 13 x 122                            |
| 75003810                                     |  | 5/7 mL Round Bottom Open-Top Tube   | 36 x 5/7 mL                          | 13 x 118                            |
| 75003811                                     |  | 3/5 mL RIA or Round Bottom Tube (without cap)   | 48 x 3/5 mL                          | 12 x 124                            |
| 75003812                                     |  | 1.5/2 mL Microtube  | 48 x 2 mL                            | 11 x 45                             |

## Adapters



<sup>1</sup>Rotor, buckets and lids sold separately.

 Biocontainment certification by Public Health England, Porton Down, UK.

# Rotors and adapters for swinging buckets rotors



HIGHPlate 6000 Swinging Bucket Rotor, 90°, R<sub>max</sub> 139 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | 6300                | 6168              |
| Megafuge ST4/ST4F Plus   | n/a                 | n/a               |
| Multifuge X1 Pro         | n/a                 | n/a               |
| Megafuge ST1 Plus        | n/a                 | n/a               |

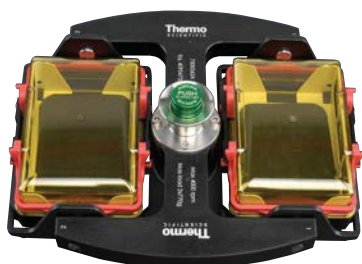
| Cat. No.     | Description          | Rotor Capacity (places x volume, mL)                | Maximum Height |
|--------------|----------------------|---|----------------|
| <b>Rotor</b> |                      |   |                |
| 75003606     | HIGHPlate 6000 Rotor | 2 x 5 Standard Microplate<br>or 2 x 1 Filter plates | < 80 mm        |



Fiberlite H3-LV Swinging Bucket Rotor, 90°, R<sub>max</sub> 189 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | 3600                | 2738              |
| Megafuge ST4/ST4F Plus   | n/a                 | n/a               |
| Multifuge X1 Pro         | n/a                 | n/a               |
| Megafuge ST1 Plus        | n/a                 | n/a               |

| Cat. No.     | Description           | Rotor Capacity (places x volume, mL)           | Maximum Height |
|--------------|-----------------------|--|----------------|
| <b>Rotor</b> |                       |  |                |
| 75003665     | Fiberlite H3-LV Rotor | 4 x 7 Standard Microplate<br>or 2 x 4 Deepwell | < 100 mm       |



M-20 Swinging Bucket Rotor<sup>1</sup>, 90°, R<sub>max</sub> 127 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | 4000                | 2272              |
| Megafuge ST4/ST4F Plus   | 4000                | 2272              |
| Multifuge X1 Pro         | 4000                | 2272              |
| Megafuge ST1 Plus        | 4000                | 2272              |

| Cat. No.                     | Description  | Rotor Capacity (places x volume, mL) | Maximum Height |
|------------------------------|--|--------------------------------------|----------------|
| <b>Rotor and Accessories</b> |  |                                      |                |
| 75003624                     | M-20 Microplate Rotor including standard open carriers | 2 x 3 Standard Microplate            | < 65 mm        |
| 75003625                     | ClickSeal Carriers including Carrier and lids          | 2 x 1 Deepwell                       | < 45 mm        |
| 75002011                     | ClickSeal Replacement lids (Set of 2)                  |                                      |                |

<sup>1</sup>Biocontainment system sold separately.

Biocontainment certification by Public Health England, Porton Down, UK.

# Rotors and adapters for swinging buckets rotors



H-Flex 1 Swinging Bucket Rotor, 90°, R<sub>max</sub> 170 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X1 Pro         | 4700                | 4297              |
| Megafuge ST1 Plus        | 4700                | 4297              |
| Multifuge X4 Pro/X4F Pro | n/a                 | n/a               |
| Megafuge ST4/ST4F Plus   | n/a                 | n/a               |

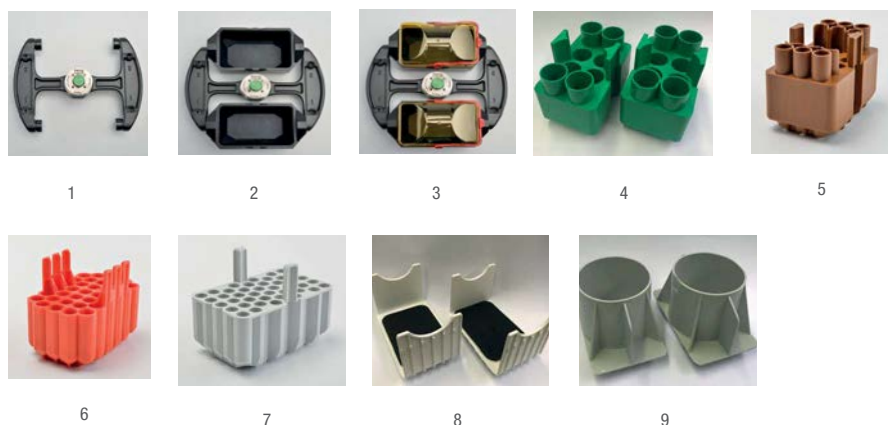


H-Flex HS4 Swinging Bucket Rotor, 90°, R<sub>max</sub> 170 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X1 Pro         | n/a                 | n/a               |
| Megafuge ST1 Plus        | n/a                 | n/a               |
| Multifuge X4 Pro/X4F Pro | 6100                | 7197              |
| Megafuge ST4/ST4F Plus   | n/a                 | n/a               |

| Cat. No.                                       | Adapter Image | Description  | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|--|---------------|--|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b>                   |               |  |                                      |                                     |
| 75003300                                       | 1             | H-Flex 1 Rotor Cross (Buckets and Lids sold separately)          |                                      |                                     |
| 75003301                                       | 2             | H-Flex 1 Rotor Buckets (Set of 2)                                |                                      |                                     |
| 75003302                                       | 3             | H-Flex 1 Rotor Biocontainment Lids (Set of 2)                    |                                      |                                     |
| 75003309                                       |               | H-Flex 1 Rotor Biocontainment Lid Replacement O-Rings (Set of 2) |                                      |                                     |
| 75003330                                       |               | H-Flex HS4 Rotor (Buckets and Windshield Lid included)           |                                      |                                     |
| 75003338                                       |               | H-Flex HS4 Spare Bucket (Set of 2)                               |                                      |                                     |
| 75003339                                       |               | H-Flex HS4 Spare Windshield Lid                                  |                                      |                                     |
| <b>Adapters for H-Flex 1 Rotor (Sets of 2)</b> |               |  |                                      |                                     |
| 73003303                                       | 4             | 50 mL Conical Tube   | 16 x 50 mL                           | 30 x 126                            |
| 73003304                                       | 5             | 15 mL Conical Tube   | 36 x 15 mL                           | 17 x 121                            |
| 73003305                                       | 6             | 10/12 mL Blood Collection Tube (16x100)                          | 66 x 10/15mL                         | 16 x 133                            |
| 73003306                                       | 7             | 5/7 mL Blood Collection Tube (13x75-100mm)                       | 84 x 5/7 mL                          | 13 x 10                             |
| 73003307                                       | 8             | Microplate Carriers  | 10 standard, 2 deepwell              | <77mm, <44mm                        |
| 73003308                                       | 9             | H-Flex 1 Rotor 400m Bottle and Centri-lab Adapter*               | n/a                                  | n/a                                 |

## Rotors and Adapters
















\*A software update requiring a service call by your Thermo Scientific representative may be required.

Please contact your local salesperson for more information; 400mL Bottle/Centri-lab Adapter maximum speed is 3800 rpm and 2800 x g.

✦ Biocontainment certification by Public Health England, Porton Down, UK.

# Fixed angle rotors



| Thermo Scientific Rotor Name   | Fiberlite F14-6x250 LE                        | Fiberlite F15-6x100y | Fiberlite F10-6x100 LEX | Fiberlite F13-14x50cy | Fiberlite F15-8x50cy | CLINIConic |
|--|---|----------------------|-------------------------|-----------------------|----------------------|------------|
| Maximum Capacity (mL)  | 6 x 250 mL                                    | 6 x 100 mL           | 6 x 100 mL              | 14 x 50 mL            | 8 x 50 mL            | 30 x 15 mL |
| Maximum Speed (rpm <sup>1</sup> )  | 11000 rpm                                     | 15000 rpm            | 10,500 rpm              | 10000 rpm             | 14500 rpm            | 5650 rpm   |
| Maximum RCF (x g <sup>1</sup> )  | 18533 x g                                     | 24652 x g            | 15038 x g               | 17105 x g             | 24446 x g            | 4997 x g   |
| Biocontainment    | ✓   | ✓                    | ✓                       | ✓                     | ✓                    |            |
| Multifuge X4 Pro/X4F Pro   | ✓   | ✓                    | ✓                       | ✓                     | ✓                    |            |
| Megafuge ST4/ST4F Plus   |   | ✓                    | ✓                       |                       |                      |            |
| Multifuge X1 Pro   |   | ✓                    | ✓                       | ✓                     | ✓                    | ✓          |
| Megafuge ST1 Plus  |   | ✓                    | ✓                       |                       |                      | ✓          |
| Maximum Capacity  | 250 mL Nalgene Bottle                         | 6                    | –                       | –                     | –                    | –          |
|                   | 85 mL Nalgene Oak Ridge Tube                  | 6                    | 6                       | 6                     | –                    | –          |
|                   | 50 mL Nalgene Oak Ridge Tube                  | 6                    | 6                       | 6                     | 14                   | 8          |
|                   | 50 mL Conical Tube                            | 6                    | 6                       | 6                     | 14                   | 8          |
|                   | 30 mL Nalgene Oak Ridge Tube                  | 12                   | 6                       | 6                     | 14                   | 8          |
|                   | 16 mL Nalgene Oak Ridge Tube                  | 30                   | 6                       | 6                     | 14                   | 8          |
|                   | 15 mL Conical Tube                            | 30                   | 6                       | 6                     | 14                   | 8          |
|                  | 10 mL Nalgene Oak Ridge Tube                  | 42                   | 12                      | 12                    | 14                   | 8          |
|                 | 10 mL Blood Collection Tube (16 x 100 mm)     | –                    | –                       | –                     | –                    | 30         |
|                 | 5/7 mL Blood Collection Tube (13 x 75-100 mm) | –                    | –                       | –                     | –                    | 30         |
|                 | 6.5 mL Round Tube                             | –                    | 12                      | 12                    | –                    | –          |
|                 | 1.5/2 mL Microtube                            | –                    | 24                      | 24                    | –                    | –          |

<sup>1</sup>Maximum speed based on top performance models.














 Biocontainment certification by Public Health England, Porton Down, UK.

Labware not shown to scale.



# Fixed angle rotors



| Thermo Scientific Rotor Name  | 8 x 50 Sealed  | HIGHConic II | MicroClick 18 x 5 | Fiberlite F21-48x2 | Microliter 48 x 2 | MicroClick 30 x 2           | Microliter 30 x 2 |
|---|----------------|--------------|-------------------|--------------------|-------------------|-----------------------------|-------------------|
| Maximum Capacity (mL)   | 8 x 50 mL      | 6 x 100 mL   | 18 x 5 mL         | 48 x 2 mL          | 48 x 2 mL         | 30 x 2 mL                   | 30 x 2 mL         |
| Maximum Speed (rpm <sup>1</sup> )   | 6700 rpm       | 10350 rpm    | 15000 rpm         | 15200 rpm          | 15200 rpm         | 14000 rpm                   | 15200 rpm         |
| Maximum RCF (x g <sup>1</sup> )   | 7177 x g       | 15090 x g    | 24652 x g         | 25055 x g          | 25314 x g         | 21693 x g                   | 25830 x g         |
| Biocontainment                                   | ✓ (Individual) | ✓            | ✓                 | ✓                  | ✓                 | ✓                           | ✓                 |
| Multifuge X4 Pro/X4F Pro  |                | ✓            | ✓                 | ✓                  | ✓                 | ✓                           | ✓                 |
| Megafuge ST4/ST4F Plus  |                | ✓            | ✓                 | ✓                  | ✓                 | ✓                           | ✓                 |
| Multifuge X1 Pro  | ✓              | ✓            | ✓                 | ✓                  | ✓                 | ✓                           | ✓                 |
| Megafuge ST1 Plus   | ✓              | ✓            | ✓                 | ✓                  | ✓                 | ✓                           | ✓                 |
| Maximum Capacity  250 mL Nalgene Bottle          | –              | –            | –                 | –                  | –                 | –                           | –                 |
|  85 mL Nalgene Oak Ridge Tube                    | –              | 6            | –                 | –                  | –                 | –                           | –                 |
|  50 mL Nalgene Oak Ridge Tube                    | –              | 6            | –                 | –                  | –                 | –                           | –                 |
|  50 mL Conical Tube                              | 8              | 6            | –                 | –                  | –                 | –                           | –                 |
|  30 mL Nalgene Oak Ridge Tube                    | –              | 6            | –                 | –                  | –                 | –                           | –                 |
|  16 mL Nalgene Oak Ridge Tube                    | –              | 6            | –                 | –                  | –                 | –                           | –                 |
|  15 mL Conical Tube                              | 8              | 6            | –                 | –                  | –                 | –                           | –                 |
|  10 mL Nalgene Oak Ridge Tube                   | –              | 12           | –                 | –                  | –                 | –                           | –                 |
|  10 mL Blood Collection Tube (16 x 100 mm)     | 8              | –            | –                 | –                  | –                 | –                           | –                 |
|  5/7 mL Blood Collection Tube (13 x 75-100 mm) | 8              | –            | –                 | –                  | –                 | –                           | –                 |
|  6.5 mL Round Tube                             | –              | 12           | –                 | –                  | –                 | –                           | –                 |
|  1.5/2 mL Microtube                            | –              | 24           | 18                | 48                 | 48                | 30 (Including spin columns) | 30                |

<sup>1</sup>Maximum speed based on top performance models.

 Biocontainment certification by Public Health England, Porton Down, UK.

Labware not shown to scale.

# Rotors and adapters for fixed angle rotors



Fiberlite F14-6x250 LE Fixed Angle Rotor, 23°, R<sub>max</sub> 137 mm

| Centrifuge                    | Maximum Speed (rpm) | Maximum RCF (x g) |
|-------------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro 230V | 11000               | 18533             |
| Multifuge X4 Pro/X4F Pro 120V | 10000               | 15317             |
| Megafuge ST4/ST4F Plus        | n/a                 | n/a               |
| Multifuge X1 Pro              | n/a                 | n/a               |

| Cat. No.   | Description   | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|--|---|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b>   |   |                                      |                                     |
| 75003662   | Fiberlite F14-6 x 250LE Rotor for 250 mL Nalgene Bottles ✦          | 6 x 250 mL                           | 62 x 125                            |
| 021-062153   | Replacement O-Ring Kit  |                                      |                                     |
| 3141-0250  | 250 mL Thermo Scientific™ Nalgene™ Polypropylene Bottle (Set of 36) |                                      |                                     |
| 3140-0250  | 250 mL Nalgene Polycarbonate Bottle (Set of 36)                     |                                      |                                     |
| <b>Adapters for F14-6 x 250LE Rotor (Sets of 2, unless stated otherwise)</b> |   |                                      |                                     |
| 010-1119   | 85 mL Nalgene Oak Ridge Tube  | 6 x 85 mL                            | 38 x 109                            |
| 010-0138   | 50 mL Nalgene Oak Ridge Tube  | 6 x 50 mL                            | 29.5 x 121                          |
| 75100136   | 50 mL Conical Tube  | 6 x 50 mL                            | 30 x 121                            |
| 010-1072   | 30 mL Nalgene Oak Ridge Tube / 38 mL Round Tube                     | 12 x 30 mL                           | 26 x 105                            |
| 010-1074   | 16 mL Nalgene Oak Ridge Tube  | 30 x 16 mL                           | 18 x 107                            |
| 010-1410   | 15 mL Conical Tube  | 30 x 15 mL                           | 17 x 121                            |
| 00389  | 10 mL Nalgene Oak Ridge Tube / 12 mL Round Tube (each)              | 42 x 10 mL                           | 17 x 110                            |

# Rotors and adapters for fixed angle rotors



Fiberlite F15-6x100y Fixed Angle Rotor, 25°, R<sub>max</sub> 98 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | 15000               | 24652             |
| Megafuge ST4/ST4F Plus   | 13000               | 18516             |
| Multifuge X1 Pro         | 15000               | 24652             |
| Multifuge ST1 Plus       | 13000               | 18516             |



Fiberlite F10-6x100 LEX Fixed Angle Rotor, 45°, R<sub>max</sub> 122 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | 10500               | 15038             |
| Megafuge ST4/ST4F Plus   | 10500               | 15038             |
| Multifuge X1 Pro         | 10500               | 15038             |
| Megafuge ST1 Plus        | 10500               | 15038             |

| Cat. No.   | Description  | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|--|--|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b>   |  |                                      |                                     |
| 75003698   | Fiberlite F15-6 x 100y Rotor for 100 mL/85 mL Nalgene ✦    | 6 x 100 mL                           | 38 x 106                            |
| 021-069031   | Replacement O-Ring Kit                                     |                                      |                                     |
| 75003340   | Fiberlite F10-6 x 1000 LEX Rotor for 100 mL/85mL Nalgene ✦ | 6 x 100 mL                           | 38 x 106                            |
| 021-06935  | Replacement O-Ring Kit                                     |                                      |                                     |
| 3118-0085  | 85 mL Nalgene Oak Ridge Tube (Set of 50)                   | 6 x 85 mL                            | 38 x 106                            |
| <b>Adapters for F15-6 x 100y Rotor (Each, unless stated otherwise)</b> |  |                                      |                                     |
| 75003102   | 50 mL Nalgene Oak Ridge Tube                               | 6 x 50 mL                            | 29.5 x 117                          |
| 75003103   | 50 mL Conical Tube   | 6 x 50 mL                            | 30 x 121                            |
| 75003094   | 30 mL Nalgene™ Oak Ridge Tube / 38 mL Round Tube           | 6 x 30 mL                            | 26 x 110                            |
| 76002906   | 16 mL Nalgene Oak Ridge Tube                               | 6 x 16 mL                            | 18 x 123                            |
| 75003095   | 15 mL Conical Tube   | 6 x 15 mL                            | 17 x 123                            |
| 75003093   | 10 mL Nalgene Oak Ridge Tube / 12 mL Round Tube            | 12 x 12 mL                           | 17 x 95                             |
| 75003092   | 6.5 mL Round Bottom Tube                                   | 12 x 6.5 mL                          | 13 x 114                            |
| 75003091   | 1.5/2 mL Microtube   | 24 x 2 mL                            | 11 x 40                             |

✦ Biocontainment certification by Public Health England, Porton Down, UK.

# Rotors and adapters for fixed angle rotors



Fiberlite F13-14x50cy Fixed Angle Rotor, 34°, R<sub>max</sub> 153 mm

| Centrifuge                    | Maximum Speed (rpm) | Maximum RCF (x g) |
|-------------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro 230V | 10000               | 17105             |
| Multifuge X4 Pro/X4F Pro 120V | 9250                | 14636             |
| Megafuge ST4/ST4F Plus        | n/a                 | n/a               |
| Multifuge X1 Pro              | 8,500               | 12,359            |
| Megafuge ST1 Plus             | n/a                 | n/a               |

| Cat. No.  | Description                                     | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|---|---|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b>  |   |                                      |                                     |
| 75003661  | Fiberlite F13-14x50cy for 50 mL Conical Tubes ✦ | 14 x 50 mL                           | 30 x 121                            |
| 021-149027  | Replacement O-Ring Kit                          |                                      |                                     |
| <b>Adapters for F13-14x50cy Rotor (Set of 2, unless otherwise stated)</b> |   |                                      |                                     |
| 010-0377  | 50 mL Nalgene Oak Ridge Tube                    | 14 x 50 mL                           | 29.5 x 108                          |
| 010-1147  | 30 mL Nalgene Oak Ridge Tube                    | 14 x 30 mL                           | 26 x 102                            |
| 010-0376  | 16 mL Nalgene Oak Ridge Tube                    | 14 x 16 mL                           | 18 x 123                            |
| 75100378  | 15 mL Conical Tube (for Corning tubes)          | 14 x 15 mL                           | 17 x 121                            |
| 010-1340  | 15 mL Nunc Conical Tube and Filtration Devices  | 14 x 15 mL                           | 17 x 121                            |
| 010-1311  | 10 mL Nalgene Oak Ridge Tube / 12 mL Round Tube | 28 x 12 mL                           | 17 x 95                             |



Fiberlite F15-8x50cy Fixed Angle Rotor, 25°, R<sub>max</sub> 104 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | 14500               | 24446             |
| Megafuge ST4/ST4F Plus   | n/a                 | n/a               |
| Multifuge X1 Pro 230V    | 14500               | 24446             |
| Multifuge X1 Pro 120V    | 14000               | 22789             |
| Megafuge ST1 Plus        | n/a                 | n/a               |

| Cat. No.   | Description                                      | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|--|--|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b>   |  |                                      |                                     |
| 75003663   | Fiberlite F15-8 x 50cy for 50 mL Conical Tubes ✦ | 8 x 50 mL                            | 30 x 121                            |
| 021-149027   | Replacement O-Ring Kit                           |                                      |                                     |
| <b>Adapters for F15-8x50cy Rotor (Set of 2, unless otherwise stated)</b> |  |                                      |                                     |
| 010-0377   | 50 mL Nalgene Oak Ridge Tube                     | 8 x 50 mL                            | 29 x 108                            |
| 010-1147   | 30 mL Nalgene Oak Ridge Tube                     | 8 x 30 mL                            | 26 x 102                            |
| 010-0376   | 16 mL Nalgene Oak Ridge Tube                     | 8 x 16 mL                            | 18 x 123                            |
| 75100378   | 15 mL Conical Tube (for Corning tubes)           | 8 x 15 mL                            | 17 x 121                            |
| 010-1340   | 15 mL Nunc Conical Tube and Filtration Devices   | 8 x 15 mL                            | 17 x 121                            |
| 010-1311   | 10 mL Nalgene Oak Ridge Tube / 12 mL Round Tube  | 8 x 12 mL                            | 17 x 95                             |

✦ Biocontainment certification by Public Health England, Porton Down, UK.



# Rotors and adapters for fixed angle rotors



CLINIConic Fixed Angle Rotor, 37°, R<sub>max</sub> 140 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | n/a                 | n/a               |
| Megafuge ST4/ST4F Plus   | n/a                 | n/a               |
| Multifuge X1 Pro         | 5650                | 4997              |
| Megafuge ST1 Plus        | 5650                | 4997              |

| Cat. No.                                    | Description  | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|---|--|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b>                |  |                                      |                                     |
| 75003623                                    | CLINIConic Fixed Angle Rotor for 15 mL Round and Conical Tubes | 30 x 15 mL                           | 17 x 121                            |
| <b>Adapters for CLINIConic Rotor (Each)</b> |  |                                      |                                     |
| 75003702                                    | 10 mL Round Bottom Tube  | 30 x 10 mL                           | 17 x 131                            |
| 11172596                                    | 7 mL Blood Collection Tubes (13 x 100 mm)                      | 30 x 7 mL                            | 17 x 131                            |
| 11172595                                    | 5 mL Blood Collection Tubes (13 x 75 mm)                       | 30 x 5 mL                            | 13 x 95                             |



8 x 50 Individually Sealed Fixed Angle Rotor, 45°, R<sub>max</sub> 143 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | n/a                 | n/a               |
| Megafuge ST4/ST4F Plus   | n/a                 | n/a               |
| Multifuge X1 Pro 230V    | 6700                | 7177              |
| Multifuge X1 Pro 120V    | 6500                | 6755              |
| Megafuge ST1 Plus 230V   | 6700                | 7177              |
| Megafuge ST1 Plus 120V   | 6500                | 6755              |

| Cat. No.   | Description  | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|--|--|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b>                       |  |                                      |                                     |
| 75003694   | 8 x 50 Individually Sealed for 50 mL Conical Tubes ✦ | 8 x 50 mL                            | 30 x 121                            |
| 75003689   | Replacement O-Ring Kit                               |                                      |                                     |
| <b>Adapters for 8 x 50 Sealed Rotor (Set of 6)</b> |  |                                      |                                     |
| 75005755   | 15 mL Conical Tube                                   | 8 x 50 mL                            | 17 x 121                            |
| 75005747   | 10 mL Blood Collection Tube (16 x 100 mm)            | 8 x 10 mL                            | 16 x 110                            |
| 75005805   | 7 mL Blood Collection Tube (13 x 100 mm) (set of 2)  | 8 x 7 mL                             | 13 x 110                            |
| 75005749   | 3.5 mL Blood Collection Tube                         | 16 x 3.5 mL                          | 11 x 75                             |

✦ Biocontainment certification by Public Health England, Porton Down, UK.

# Rotors and adapters for fixed angle rotors



HIGHConic II Aluminium Fixed Angle Rotor, 45°, R<sub>max</sub> 126 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | 10350               | 15090             |
| Megafuge ST4/ST4F Plus   | 10350               | 15090             |
| Multifuge X1 Pro         | 10350               | 15090             |
| Megafuge ST1 Plus        | 10350               | 15090             |

| Cat. No.  | Description   | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|---|---|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b>                              |   |                                      |                                     |
| 75003620  | HIGHConic Fixed Angle Rotor for 100 mL/85 mL Nalgene Oak Ridge Tube ✦ | 6 x 100 mL                           | 38 x 123                            |
| 75003058  | Replacement O-Ring Kit  |                                      |                                     |
| 3118-0085   | 85 mL Nalgene Oak Ridge Tube (Set of 50)                              | 6 x 85 mL                            | 38 x 106                            |
| <b>Adapters for HIGHConic Rotor (Each, unless stated)</b> |   |                                      |                                     |
| 75003102  | 50 mL Nalgene Oak Ridge Tube  | 6 x 50 mL                            | 30 x 117                            |
| 75003103  | 50 mL Conical Tube  | 6 x 50 mL                            | 30 x 121                            |
| 75003094  | 30 mL Nalgene Oak Ridge Tube / 38 mL Round Tube                       | 6 x 30 mL                            | 26 x 110                            |
| 76002906  | 16 mL Nalgene Oak Ridge Tube  | 6 x 16 mL                            | 18 x 123                            |
| 75003095  | 15 mL Conical Tube  | 6 x 15 mL                            | 17 x 123                            |
| 75003093  | 10 mL Nalgene Oak Ridge Tube / 12 mL Round Tube                       | 12 x 12 mL                           | 17 x 95                             |
| 75003092  | 6.5 mL Round Bottom Tube  | 12 x 6.5 mL                          | 13 x 114                            |
| 75003091  | 1.5/2 mL Microtube  | 24 x 2 mL                            | 11 x 40                             |



MicroClick 18x5 Aluminum Fixed Angle Rotor, 45°, R<sub>max</sub> 102 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | 15000               | 24652             |
| Megafuge ST4/ST4F Plus   | 15000               | 24652             |
| Multifuge X1 Pro         | 15000               | 24652             |
| Megafuge ST1 Plus        | 15000               | 24652             |

| Cat. No.  | Description  | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|---|--|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b>                    |  |                                      |                                     |
| 75005765  | 18 x 5 MicroClick Rotor for 5mL Conical and Flip Top Tubes ✦ | 18 x 5 mL                            | 17 x 62                             |
| 20059119  | ClickSeal  | n/a                                  | n/a                                 |
| 75005726  | O-Ring Set   | n/a                                  | n/a                                 |
| 75003500  | O-Ring Grease  | n/a                                  | n/a                                 |
| <b>Adapters for MicroClick Rotor (Set of 2)</b> |  |                                      |                                     |
| 75005756  | 1.5/2 mL Microtube   | 18 x 5                               | 11 x 45                             |

✦ Biocontainment certification by Public Health England, Porton Down, UK.

# Rotors and adapters for fixed angle rotors



Fiberlite F21-48x2 Fixed Angle Rotor, 45°, R<sub>max</sub> 97 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | 15200               | 25055             |
| Megafuge ST4/ST4F Plus   | 15200               | 25055             |
| Multifuge X1 Pro         | 15200               | 25055             |
| Megafuge ST1 Plus        | 15200               | 25055             |

| Cat. No.                     | Description                                    | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|------------------------------|--|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b> |  |                                      |                                     |
| 75003664                     | Fiberlite F21-48 x 2 for 1.5/2 mL Microtubes ✦ | 48 x 2 mL                            | 11 x 50                             |
| 021-489021                   | Replacement O-Ring Kit                         |                                      |                                     |



Microliter 48 x 2 Aluminium Fixed Angle Rotor, 45°, R<sub>max</sub> 98 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | 15200               | 25314             |
| Megafuge ST4/ST4F Plus   | 15200               | 25314             |
| Multifuge X1 Pro         | 15200               | 25314             |
| Megafuge ST1 Plus        | 15200               | 25314             |

| Cat. No.                     | Description                               | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|------------------------------|---|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b> |   |                                      |                                     |
| 75003602                     | 48 x 2 Aluminum for 1.5/2 mL Microtubes ✦ | 48 x 2 mL                            | 11 x 50                             |
| 75003349                     | Replacement O-Ring Kit                    |                                      |                                     |

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## Rotors and adapters for fixed angle rotors



MicroClick 30 x 2 Aluminum Fixed Angle Rotor, 45°, R<sub>max</sub> 99 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | 14000               | 21693             |
| Megafuge ST4/ST4F Plus   | 14000               | 21693             |
| Multifuge X1 Pro         | 14000               | 21693             |
| Megafuge ST1 Plus        | 14000               | 21693             |

| Cat. No.                     | Description  | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|------------------------------|--|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b> |  |                                      |                                     |
| 75005719                     | 30 x 2 MicroClick for 1.5/2 mL Microtubes and Spin Columns ✦ | 30 x 2 mL                            | 11 x 50                             |
| 75005726                     | Replacement O-Ring Kit                                       |                                      |                                     |



Microliter 30 x 2 Aluminum Fixed Angle Rotor, 45°, R<sub>max</sub> 100 mm

| Centrifuge               | Maximum Speed (rpm) | Maximum RCF (x g) |
|--------------------------|---------------------|-------------------|
| Multifuge X4 Pro/X4F Pro | 15200               | 25830             |
| Megafuge ST4/ST4F Plus   | 15200               | 25830             |
| Multifuge X1 Pro         | 15200               | 25830             |
| Megafuge ST1 Plus        | 15200               | 25830             |

| Cat. No.  | Description                               | Rotor Capacity (places x volume, mL) | Maximum Tube Dimensions (Ø x L, mm) |
|---|---|--------------------------------------|-------------------------------------|
| <b>Rotor and Accessories</b>                          |   |                                      |                                     |
| 75003652  | 30 x 2 Aluminum for 1.5/2 mL Microtubes ✦ | 30 x 2 mL                            | 11 x 50                             |
| 75003349  | Replacement O-Ring Kit                    |                                      |                                     |
| <b>Adapters for all Microliter Rotors (Set of 30)</b> |   |                                      |                                     |
| 75005753  | 0.5 mL Microtube                          |                                      | 8 x 44                              |
| 75005754  | 0.25 mL Microtube                         |                                      | 6 x 46                              |
| 75005752  | 0.2 mL PCR Tube                           |                                      | 5 x 20                              |

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TRIGON PLUS s.r.o.  
 tel.+420 272 680 190, mail@trigonplus.cz, www.trigonplus.cz  
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