

# Thermo Scientific Heraeus Biofuge Stratos High-Speed Benchtop Centrifuges



Delivering superspeed performance  
and flexibility on the bench

# Thermo Scientific Heraeus Biofuge Stratos Centrifuges

Accelerating discovery through innovation



Maximize productivity by processing more samples in less time with our centrifugation solutions that offer exceptional performance, versatility, and reliability.

Our Thermo Scientific Heraeus Biofuge Stratos high-speed benchtop centrifuge series delivers speed and flexibility to allow reliable separations – all in a compact footprint. The centrifuge is available in refrigerated and continuous flow models, featuring intelligent technologies that eliminate imbalances and simplify operation – maximizing your productivity and results.

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+45 43 62 46 47  
INFO@AXEB.DK



### Superior Consumable Compatibility

Thermo Scientific Nalgene and Nunc brand centrifuge bottles and tubes deliver quality and performance. These products are in conformance with ISO 13485: 2003, cGMP and USP Class VI; you'll find updated speed ratings and lot specific product certificates online. Available in a variety of resins, with capacities from 1.0 ml to 2 L, Nalgene® and Nunc™ brand products are a perfect fit to Thermo Scientific centrifuges.

## Heraeus® Biofuge® Stratos Centrifuge Series

### Maximum Performance and Stability for Fast and Efficient Separations

Our patented Thermo Scientific Spindle Drive technology delivers high-speed capabilities on the benchtop including:

- Rapid acceleration and quick braking to speed sample throughput and improve instrument life
- Whisper-quiet operation
- High g-forces for faster separations over a wider variety of applications
- Dual lid-locking to engage lid quickly and safely

### Continuous Imbalance Tolerance to Protect Samples

Patented electronic imbalance recognition system safeguards samples:

- Sample loss detected during runs with automatic braking
- Improper rotor installation detected specifically for every rotor to protect drive
- Excessive speed detected and the maximum permissible value for the rotor is signaled
- Outstanding imbalance tolerance allows Eye-balancing of tubes, speeding sample preparation

### Versatility and Simplicity with Smart, Intuitive Controls

The Thermo Scientific Easycontrol panel simplifies work with an easy-to-read display of system performance, including:

- 9 pre-saved programs for most important run parameters
- Pre-temp program for rapid pre-cooling



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- Rapid, consistent performance
- Perfect for a wide range of volumes
- High-speed rotors
- Wide variety of rotors to meet a broad array of applications
- Portable and vibration-free

#### **Certified for Biocontainment**

Rotors and accessories are designed for biologically safe centrifugation with effective seals against hazards, and have been certified for biocontainment by CAMR\* Porton Down.

\*CAMR is now incorporated within the UK Health Protection Agency (HPA).

#### **Available with Continuous Flow Operation**

For processing large sample volumes rapidly and reliably in a single run, our Heraeus Biofuge Stratos centrifuge is available with continuous flow operation.

The Heraeus Contifuge Stratos centrifuge is a more convenient and faster solution over conventional batch separations, quickly separating large volumes of suspension, resulting in high yields.

Our Heraeus Contifuge Stratos is ideal for:

- Harvesting of plant and animal cell cultures
- Harvesting of bacteria and virus lysates
- Precipitation of protein complexes
- Cell enrichment
- Separation of immunoglobulins
- Vaccine production
- Preparation of macrophages
- Separation of yeasts
- Sediment extraction from water samples
- Plankton enrichment



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## Thermo Scientific Heraeus Biofuge Stratos Rotors and Adapters



Description	Capacity (place x ml)	Max. Tube Dimensions (mm)	120 V		208 V		Cat. No.
			Max. Speed (rpm)	Max. RCF (x g)	Max. Speed (rpm)	Max. RCF (x g)	
<b>4 x 180 Swinging Bucket Rotor, R<sub>max</sub> 17.4 mm</b>	<b>4 x 180</b>		<b>4500</b>	<b>3940</b>	<b>5000</b>	<b>4863</b>	<b>75003047</b>
Round Buckets (each)	4 x 180						75008172
Sealing Lids (each)							75008173
<b>Adapters for 4 x 180 Swinging Bucket Rotor</b>							
180 ml Screw Cap Bottles	4 x 180	55 x 112					76003026*
100 ml Round bottom Tube	4 x 100	45 x 128					75008181
50 ml Standard Tube	4 x 50	36 x 132					75008182
50 ml Disposable Conical Tube	4 x 50	29 x 133					75008183
25 ml Universal Tube	4 x 25	26 x 121					75008196
25 ml Standard Tube	4 x 25	25 x 126					75008184
15 ml Disposable Conical Tube	12 x 15	19 x 133					75008187
15 ml Blood Collection Tube	16 x 15	18 x 129					75008185
15 ml Standard Tube	28 x 15	18 x 126					75008186
7 ml Blood Collection Tube	28 x 7	13 x 126					75008188
7 ml Standard Tube	36 x 7	13 x 125					75008189
1.5/2 ml Microtube	48 x 1.5/2	11 x 42					75008190
<b>2 x 2 Standard Microplate Rotor, R<sub>max</sub> 13.6mm</b>	<b>2 x 1 MP</b>		<b>3000</b>	<b>1370</b>	<b>3000</b>	<b>1370</b>	<b>75003048</b>
<b>6 x 94 Fixed Angle Rotor, R<sub>max</sub> 10.1 mm, 26°</b>	<b>6 x 94</b>		<b>13000</b>	<b>19080</b>	<b>15000</b>	<b>25410</b>	<b>75003334</b>
<b>Adapters for 6 x 94 Fixed Angle Rotor</b>							
94 ml Round Bottom Tube	6 x 94	38 x 114					Direct
50 ml Round Bottom Tube	6 x 50	29 x 114					75003014
38 ml Round Bottom Tube	6 x 38	25 x 104					75003094
16 ml Round Bottom Tube	6 x 16	18 x 114					76002906
12 ml Round Bottom Tube	12 x 12	16 x 89					75003093
6.5 ml Round Bottom Tube	12 x 6.5	13 x 108					75003092
3.5 ml Round Bottom Tube	24 x 3.5	11 x 91					75003091
1.5 ml Microtube	24 x 1.5	11 x 51					76002905
<b>8 x 50 Fixed Angle Rotor, R<sub>max</sub> 10.7 mm, 34°</b>	<b>8 x 50</b>		<b>13000</b>	<b>20220</b>	<b>15000</b>	<b>26920</b>	<b>75003335</b>
<b>Adapters for 8 x 50 Fixed Angle Rotor</b>							
50 ml Round Bottom Tube	8 x 50	29 x 114					Direct
38 ml Round Bottom Tube	8 x 38	25 x 104					75003099
16 ml Round Bottom Tube	8 x 16	18 x 114					76002904
12 ml Round Bottom Tube	8 x 12	16 x 89					75003098
6.5 ml Round Bottom Tube	8 x 6.5	13 x 108					75003097
3.5 ml Round Bottom Tube	24 x 3.5	11 x 91					76002903
1.5 ml Microtube	24 x 1.5	11 x 51					76002902
<b>16 x 16 Fixed Angle Rotor, R<sub>max</sub> 9.8 mm, 23°</b>	<b>16 x 16</b>		<b>14000</b>	<b>21475</b>	<b>17000</b>	<b>31660</b>	<b>75003336</b>
<b>Adapters for 16 x 16 Fixed Angle Rotor</b>							
16 ml Round Bottom Tube	16 x 16	18 x 114					Direct
6.5 ml Round Bottom Tube	16 x 6.5	13 x 108					75003079
3.5 ml Round Bottom Tube	16 x 3.5	11 x 91					76002901
1.5 ml Microtube	16 x 1.5	11 x 51					76002900
<b>Thermo Scientific Highconic Rotor, R<sub>max</sub> 12.4 mm, 45°</b>	<b>6 x 50</b>		<b>8500</b>	<b>10015</b>	<b>8500</b>	<b>10015</b>	<b>75003057</b>
<b>Adapters for Highconic® Rotor</b>							
50 ml Disposable Conical Tube	6 x 50	29 x 119					75003096**
50 ml Round Bottom Tube	6 x 50	29 x 118					75003014
38 ml Round Bottom Tube	6 x 38	25 x 112					75003094
16 ml Round Bottom Tube	6 x 16	18 x 124					76002906
15 ml Disposable Conical Tube	6 x 15	19 x 119					75003095
12 ml Round Bottom Tube	12 x 12	16 x 96					75003093
6.5 ml Round Bottom Tube	12 x 6.5	13 x 115					75003092
3.5 ml Round Bottom Tube	24 x 3.5	11 x 103					75003091
1.5 ml Microtube	24 x 1.5	11 x 51					76002905
<b>24 x 1.5/2 Fixed Angle Rotor, R<sub>max</sub> 8.7 mm, 45°</b>	<b>24 x 1.5/2.0</b>		<b>17000</b>	<b>28110</b>	<b>17000</b>	<b>28110</b>	<b>75003332</b>
<b>Adapters for 24 x 1.5/2 Fixed Angle Rotor (sets of 24)</b>							
1.5/2 ml Microtube	24 x 1.5/2.0	11 x 51					Direct
0.5/0.6 ml Microtube	24 x 0.5/0.6						76003758
0.25/0.4 ml Microtube	24 x 0.25/0.4						76003759
0.2 ml PCR Tube	24 x 0.2						76003750
<b>24 x 1.5 Fixed Angle Rotor, R<sub>max</sub> 8.3 mm, 45°</b>	<b>24 x 1.5</b>		<b>22000</b>	<b>44910</b>	<b>23300</b>	<b>50377</b>	<b>75003331</b>
<b>Adapters for 24 x 1.5 Fixed Angle Rotor (sets of 24)</b>							
1.5 ml Microtube	24 x 1.5	11 x 51					Direct
0.5/0.6 ml Microtube	24 x 0.5/0.6						76003252
0.25 ml Microtube	24 x 0.25						76003251
0.2 ml PCR Tube	24 x 0.2						76003250
<b>Drum Rotor, R<sub>max</sub> 8.7 mm</b>	<b>24 x 1.5/2.0</b>		<b>13000</b>	<b>16438</b>	<b>13000</b>	<b>16438</b>	<b>75003044</b>
<b>Adapters for Drum Rotor</b>							
1.5 ml Microliter Tube	80 x 1.5						76001499
1.5/2 ml Microliter Tube	80 x 1.5/2.0						76001244
0.3 ml Microcapillary Tube	64 x 0.3						76001246
0.5/0.6 ml Microliter Tube	120 x 0.5/0.6						76001247
0.25/0.4 ml Microliter Tube	160 x 0.25/0.4						76001248
1.5/2.0 ml Microliter Tube (60°)	48 x 1.5/2.0						75001498

\* Bottle number; no adapter is required.

\*\* Adapters come standard with rotor.

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## Thermo Scientific Heraeus Biofuge Stratos Centrifuge Series

Specifications	Heraeus Biofuge Stratos	Heraeus Contifuge Stratos
Max Capacity (ml)	4 x 180	300 (sediment)
Max Speed (rpm)	22,000/23,300*	17,000
Max RCF (x g)	44,910/50,377*	25,040
Control System	Microprocessor-controlled via Easycontrol II	Microprocessor-controlled via Easycontrol II
Programs	9+1 pre-cooling program	9+1 pre-cooling program
Speed Range (rpm)	300-23,300	300-17,000
Drive System	Brushless Induction Drive	Brushless Induction Drive
Functions	RCF Selection, quick run, automatic rotor recognition, electronic imbalance detection	RCF Selection, quick run, automatic rotor recognition, electronic imbalance detection
Braking / Accel Curves	9/9	9/9
Max Noise Level	<60dB	<60dB
Run Time	0-9 hrs 59 mins, continuous operation, alternatively 0-99 hrs	0-9 hrs 59 mins, continuous operation, alternatively 0-99 hrs
Temperature Range (°C)	-9 to +40	-9 to +40
Safety	Lid lock and interlock	Lid lock and interlock
Standards	CE, CSA	CE, CSA
Electrical	120 V, 50/60 Hz, 230 V, 50/60 Hz, 208 V, 50/60 Hz	230 V, 50/60 Hz, 208 V, 50/60 Hz
Dimensions (HxWxD)	15.6 x 25.2 x 23.4 in (395 x 640 x 595 mm)	15.6 x 25.2 x 23.4 in (395 x 640 x 595 mm)
Weight (without rotor)	295 lb (134 kg)	295 lb (134 kg)

\*208/230 V models only

Ordering Information		
Heraeus Biofuge Stratos	120V, 50/60Hz	75005286
Heraeus Biofuge Stratos	230 V, 50/60 Hz	75005282
Heraeus Biofuge Stratos	208 V, 50/60 Hz	75005284
Heraeus Contifuge Stratos	230 V, 50/60 Hz	75005283
Heraeus Contifuge Stratos	208 V, 50/60 Hz	75005285
Accessory Cart		76000083
Titanium Continuous Flow Rotor		75003049
High Performance Insert		75015339
Masterflex® Easy Load Pump Head*		77200-60
Masterflex Peristaltic 600 rpm Pump Drive*	120V-230V, 50/60Hz	7523-60

\*Tubing not supplied; must order both pump parts.



### Comprehensive Centrifuge Solutions

We offer a wide range of Thermo Scientific Sorvall high-performance superspeed and ultraspeed centrifuges for the pursuit of scientific discoveries. Models include the Sorvall Evolution™ RC superspeed for fast, high-volume processing, and the Sorvall WX Ultra Series for sample processing at speeds to 100,000 rpm.

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**North America:** USA/Canada +1 866 984 3766

**Europe:** Austria +43 1 801 40 0, Belgium +32 2 482 30 30, France +33 2 2803 2000, Germany national toll free 08001-536 376, Germany international +49 6184 90 6940, Italy +39 02 02 95059 434-254, Netherlands +31 76 571 4440, Nordic countries +358 9 329 100, Russia/CIS +7 (812) 703 42 15, Spain/Portugal +34 93 223 09 18, Switzerland +41 44 454 12 12, UK/Ireland +44 870 609 9203

**Asia:** China +86 21 6865 4588 or +86 10 8419 3588, India +91 22 6716 2200, Japan +81 45 453 9220, Other Asian countries +852 2885 4613

**Countries not Listed:** +49 6184 90 6940 or +33 2 2803 2000

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