

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.



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 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

Our 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





- 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).

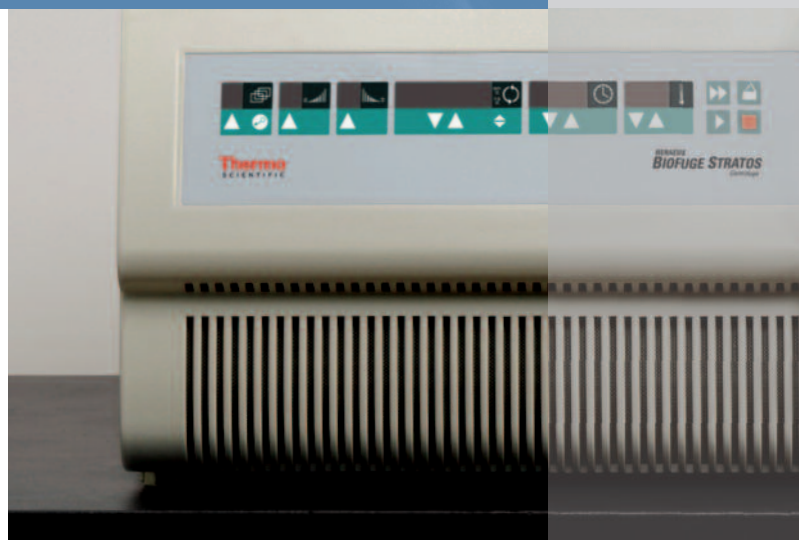
Available with Continuous Flow Operation

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 Biofuge 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 Biofuge 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



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)	
 4 x 180 Swinging Bucket Rotor, R_{max} 17.4 mm	4 x 180		4500	3940	5000	4863	75003047
Round Buckets (each)	4 x 180						75008172
Sealing Lids (each)							75008173
Adapters for 4 x 180 Swinging Bucket Rotor							
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
2 x 2 Standard Microplate Rotor, R_{max} 13.6mm	2 x 1 MP		3000	1370	3000	1370	75003048
 6 x 94 Fixed Angle Rotor, R_{max} 10.1 mm, 26°	6 x 94		13000	19080	15000	25410	75003334
Adapters for 6 x 94 Fixed Angle Rotor							
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
 8 x 50 Fixed Angle Rotor, R_{max} 10.7 mm, 34°	8 x 50		13000	20220	15000	26920	75003335
Adapters for 8 x 50 Fixed Angle Rotor							
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
 16 x 16 Fixed Angle Rotor, R_{max} 9.8 mm, 23°	16 x 16		14000	21475	17000	31660	75003336
Adapters for 16 x 16 Fixed Angle Rotor							
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
 Thermo Scientific Highconic Rotor, R_{max} 12.4 mm, 45°	6 x 50		8500	10015	8500	10015	75003057
Adapters for Highconic® Rotor							
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
 24 x 1.5/2 Fixed Angle Rotor, R_{max} 8.7 mm, 45°	24 x 1.5/2.0		17000	28110	17000	28110	75003332
Adapters for 24 x 1.5/2 Fixed Angle Rotor (sets of 24)							
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
 24 x 1.5 Fixed Angle Rotor, R_{max} 8.3 mm, 45°	24 x 1.5		22000	44910	23300	50377	75003331
Adapters for 24 x 1.5 Fixed Angle Rotor (sets of 24)							
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
Drum Rotor, R_{max} 8.7 mm	24 x 1.5/2.0		13000	16438	13000	16438	75003044
Adapters for Drum Rotor							
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.

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)	-19 to +40	-19 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.



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North America: USA/Canada +1 866 984 3766 (866-9-THERMO)

www.thermoscientific.com/centrifuge

Europe: Austria +43 1 801 40 0, Belgium +32 53 73 42 41, France +33 2 2803 2180, Germany national toll free 08001-536 376, Germany international +49 6184 90 6940, Italy +39 02 95 05 92 54, Netherlands +31 76 579 55 55, Nordic/Baltic countries +358 9 329 10200, 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: Australia +61 39757 4300, China +86 21 6865 4588 or +86 10 8419 3588, India toll free 1800 22 8374, India +91 22 6716 2200, Japan +81 45 453 9220, New Zealand +64 9 980 6700,

Other Asian countries +852 2885 4613 **Countries not listed:** +49 6184 90 6940

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