



BIOS A and 16 Bioprocessing Centrifuges Greener with every spin

thermo scientific

Bioprocessing efficiency

Reliability, productivity and enhanced sustainability

Thermo Scientific[™] BIOS A and BIOS 16 Centrifuges with GreenCool Technology bring outstanding power and enhanced sustainability to bioprocessing facilities and labs performing high-throughput applications. Featuring a natural refrigerant (CO₂) cooling system, these centrifuges exemplify technological leadership and innovation. They offer reduced energy consumption, rapid cool-down times, and stable temperatures for precise results. Their lighter weight and reduced noise levels help improve the laboratory environment. With a capacity of up to 16 L and a userfriendly design, the BIOS series simplifies working with large volumes while helping ensure compliance with global standards. Enhanced ergonomics and quick setup of traceable runs make these centrifuges excellent for bioprocessing productivity. They leverage application-specific solutions with greener technology and top performance.





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Greener by design[™] Sustainability aspects

We leverage the power of innovation to positively contribute to a healthier world, which includes reducing the environmental impact of our products and packaging—from design to end of life. By incorporating environmental sustainability principles into each design step, we can better understand and reduce the environmental impact of our products early in the design process, helping to ultimately deliver on our commitment to achieve net-zero emissions by 2050 while helping customers advance their sustainability goals.

Greener by design: We integrate Design for Sustainability into our product development to reduce environmental footprint without compromising quality. Our strategy targets five areas: less hazardous, less waste, more energy efficient, responsibly packaged, and extended life.

BIOS large-capacity centrifuges have been updated with a next-generation natural refrigerant (CO_2) cooling system. Carbon dioxide (CO_2) has a lower Global Warming Potential (GWP) than other refrigerants, while not contributing to depletion of the ozone layer and is compliant with EU and US EPA F-gas regulations. Besides being **less hazardous**, the centrifuges are **more energy efficient**. Additionally, they are **manufactured in a certified zero-waste facility*** using 100% renewable energy in Osterode am Harz, Germany.**





More energy efficient



Global Warming Potential = 1*

Up to 15% lower energy consumption**

Made in a certified zerowaste facility***

Up to a five-year warranty****

* Due to natural refrigerant (CO₂)

- ** Energy use measured for a 1-hour run at maximum spin speed and compared to previous model. BIOS 16: GC 4600W vs Legacy 5400W -> 14% lower; BIOS A: GC 5400W vs Legacy 6400W -> 15% lower *** Zero waste defined as less than 10% of non-hazardous waste sent to landfill, incineration or waste-to-energy
- **** 2 year warranty for unit, 5 years for powertrain (motor shaft and drive) and 5 years for refrigeration.

GreenCool Technology

Energy efficiency and convenience

Energy efficiency

Lower energy consumption of cooling system

Improvement in energy efficiency over previous generation of Thermo Scientific bioprocessing centrifuges, helping reduce the impact on the environment and the total cost of ownership.

Further energy savings with rotor technology

Thermo Scientific[™] Rotors with Eco-Spin[™] Technology are windshielded rotors that provide energy savings up to 64% when compared with non-windshielded rotors^{*} (see Figure 1).

Better for the environment

Lower Global Warming Potential

The refrigeration system operates with carbon dioxide (CO_2) , a natural gas with a Global Warming Potential of 1. In addition, CO_2 does not deplete the ozone layer.

Enhanced convenience

Less weight

Due to the GreenCool system, the weight of the centrifuges has been reduced by 60 kg (132 lbs) compared to previous models, making them easier to transport and install in the lab.

Less noise

BIOS centrifuges with CO_2 cooling offer enhanced comfort in the lab with a noise level that is 4 dB(A) (50%) lower compared to previous models.

Figure 1. Power consumption of Thermo Scientific windshielded rotors as compared with non-windshielded designs of the same rotor body.



^{*} Based on an engineering evaluation of windshielded and non-windshielded designs of the same rotor body.



Models

Designed for reliable, high-throughput bioprocessing

With a long history of application expertise, we build innovative centrifuges that help improve your productivity

Whether you require outstanding capacity or high performance for application flexibility, BIOS A and BIOS 16 centrifuges offer features that will help maximize productivity—and when combined with our space-saving footprint, one of these options is sure to be an excellent fit in your bioprocessing facility.

How do I choose which centrifuge to use?



Goal:	Application flexibility	Maximize capacity
Centrifuge	BIOS A Centrifuge provides high performance, up to 12,000 x g, in a fixed-angle configuration and up to 10L capacity (10 x 1L).	BIOS 16 Centrifuge provides lower speeds, but higher capacity by accommodating 2 L bottles. The series offers the flexibility to spin blood bags, bottles, bioprocess containers and tubes on the same unit for application such as fetal bovine preparation (not intended for human blood bags). In addition, the buckets with a 101 mm diameter have been designed to spin TPP 600 mL TubeSpin® bioreactor.
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Rotor	Fiberlite F6-10x1000 LEX Rotor	8 x 2,000 mL rotor	8 x 1,000 mL rotor	6 x 2,000 mL rotor	6 x 1,000 mL rotor
Maximum speed (rpm)	6,250 rpm	3,900 rpm	4,600 rpm	4,700 rpm	5,400 rpm
Maximum RCF (x g)	12,000 x g	5,374 x g	7,117 x g	7,187 x g	8,500 x <i>g</i>





Features and benefits

Auto-Door technology

With a push of a button on the touchscreen interface, the Auto-Door function automatically and completely opens or closes the centrifuge door without the need for manual force. This feature provides enhanced ergonomics for loading and unloading the centrifuge and is especially convenient in production environments, where tasks can be repeated up to 30 times a day.

Auto-Lid technology (BIOS 16 model only)

The rotor lids can be attached to and stored on the centrifuge door, automatically opening and closing in sync with the centrifuge door. During the automated closing of the centrifuge door, the windshield rotor lid is seamlessly restacked.

Centri-Touch interface and Centri-Cross function

The bright, highly visible and glove-friendly display helps support easy run set-up. It provides enhanced access control, such as user login with password protection. In slow start/stop mode, select from 11 acceleration and 12 deceleration profiles, including profiles loaded from another Thermo Scientific large-capacity centrifuge – the Centri-Cross feature –, to customize results to enable maximum yields with minimum re-suspension.

Auto-ID instant rotor identification

The Auto-ID instant rotor identification technology automatically and instantly identifies a rotor the moment it is placed into the BIOS centrifuge. The technology adjusts the parameters to standard settings of the rotor which helps save time and improves ease of use. Additionally, instant rotor identification eliminates the potential to over-speed a rotor by accidentally entering an incorrect rotor code or too high a speed for the inserted rotor.

DuraFlex Drive technology

Automatically neutralize up to 125 g loading imbalance with DuraFlex Drive technology. This advanced, flexible drive system enhances the durability and performance of the centrifuge. By accommodating up to 125 g of imbalance without requiring perfect rotor loading, this technology prevents run interruptions, thereby helping save time and increasing efficiency.











ACE function

The Accumulated Centrifugal Effect (ACE[™]) function is designed to achieve reproducible results. The ACE technology automatically adjusts run time to account for variations in acceleration due to full or partial rotor loading (see Figure 2). It calculates the g-force experienced during the run in increments of speed over time to give a value representing the overall separating g-force. This value can be substituted for the "TIME" setting, therefore duplicating the overall separating g-force for every run.



Figure 2. In a typical first centrifugation step, a two-bag rotor load attains set speed faster than a six-bag load. Since both loads will time out at the set time of 3:30 minutes, different g-forces are achieved during the run. By using the ACE integrator function, the time for two bags would be changed to 3:00 minutes to obtain the same overall g-force for both loads. With an ACE value and speed set at the start of a run, times were adjusted to achieve the same overall g-force regardless of the rotor load.

Centri-Vue application

Centri-Vue application is a software tool for remote monitoring and management of centrifuges. It allows users to track the status, performance, and maintenance needs of their centrifuges in real time via a mobile device or computer. This application enhances operational efficiency by providing alerts, usage reports, and diagnostic information, thereby helping ensure optimal performance and reducing downtime.

Centri-Track application

Designed to assist with GMP/GLP compliance with Thermo Scientific[™] Centri-Track[™] On-Board Application for run logging of user and run conditions, and error messages, and optional Centri-Log Plus software integration for data collection.





Ergonomics

The BIOS centrifuge provides an optimal working height of 930 mm for effortless loading and unloading. With push-button convenience and automatic door and rotor lid opening and closing, the centrifuge offers excellent ergonomics. Castors and adjustable, robust feet support mobility in the laboratory, eliminating the need to bolt down the instrument to the floor. This simplifies installation and provides enhanced flexibility for relocation within a facility.



Data management and connectivity

Large, bright, interactive Centri-Touch interface

- Glove- and detergent-friendly design
- Simple and quick run setup with ACE function, speed, time, temp, plus pre-temp and accel and decel ramps
- Convenient touchscreen keyboard for direct input of program parameters
- Highly visible backlit display of set and actual run conditions, including rpm, g-force, and the rotor in operation, enlarged during the run for clear visibility—even from across the lab
- Real-time connection with Centri-Vue application to monitor protocols on your smart device

Simple, quick run setup and monitoring, plus powerful functions just one touch away, providing:

- Quick recall of up to 120 programs with alphanumeric naming to minimize time between runs and for quick run start by routine users
- User access control and security with optional password protection, ideal for multi-user environments
- Multilingual instructions on programming, run conditions, alerts, and service messages
- Protocol conversion from another Thermo Scientific centrifuge model with Centri-Cross function
- Integrated rotor calculator for simplifying protocol modifications
 and transfers
- Help screens and in-use training with on-board tutorial videos and a quick-start manual
- Centri-Track on-board run logging of user, run conditions, and error messages
- Thermo Scientific[™] Cycle-Log[™] Rotor Bucket Cycle Log monitors bucket life for added safety



Easily set current parameters and monitor centrifuge status



Emulate protocols from other centrifuges with Centri-Cross function

Data collection

- On-board Centri-Track app for run logs, downloadable via USB port or real-time via Ethernet
- Centri-Log Plus data collection software: protocol-tracking solution enabling lifecycle management of processed samples, equipment optimization, and compliance with standard operating procedures. Connect and track multiple centrifuges on the same network.
 - Improve traceability with documentation of processes, including continual monitoring of speed, time and temperature with alarm messages in case of protocol deviation
 - Ability to check run parameters against procedures in PC database
 - Connection to central database through customized export file





Connection

The Centri-Vue application provides a real-time connection with your BIOS A and 16 Bioprocessing Centrifuges. Use your smart device to check your run status or whether a centrifuge is available from across the campus, building, or lab. With the Centri-Vue application, you can also:

- Determine status of 1 or up to 100 centrifuges at a glance
- Monitor your run:
 - Replicate instrument main screen on your smart device
 - Know when your run is complete
 - Check for diagnostic errors affecting your run
- Establish secure centrifuge connection for start and stop control



Download the Centri-Vue application for instant remote monitoring and control, available for both iOS[™] and Android[™] devices.



* GMP mode must be enabled.

** Sample tracking kit contains barcode scanner, holder, and cable.

Sterilized closed-system solution BIOS 16 centrifuge and CentriPAK BPC

BIOS 16 centrifuge and Thermo Scientific[™] CentriPAK[™] BioProcess Container (BPC) system are an excellent combination for improved security of cell culture separations in the bioprocessing² industry with a single-use, sterilized closed system.

CentriPAK BPC helps maximize your sample security and minimizes your process time in four ways.



1 Samples were tested in a Thermo Scientific BIOS 16 Centrifuge in combination with 6 x 2000mL and 8 x 2000mL Swinging Bucket Rotors at up to 7187 x g, 4° to 40°C for 2 hours.

2 CentriPAK BPC is intended for centrifugation in biotechnological applications. It is not approved or intended for, and should not be used for medical, clinical, surgical or other patient-oriented applications.



Sterilized closed system

Reduces cross-contamination risks while separating cell cultures.

2

High-efficiency separation

Designed for centrifugation¹, enabling gentle, high-throughput and highefficiency harvesting.

3

Single-use

Eliminates post-use cleaning steps required with reusable containers.

4

Bioprocessing quality

Rigorous quality control and assurance practices for the manufacture of industry-standard material components and aseptic product contact film.

Bioprocessing quality CentriPAK BioProcess Container

To help ensure that the CentriPAK BPC system conforms to the quality standards expected in the bioprocessing industry, it is subjected to rigorous quality control in compliance with ISO 13485:2016 from the receipt of components to the release of final product.

Our production control processes help ensure complete lot traceability for each batch while the process control document becomes the stepwise manufacturing record that physically accompanies the lot through every step of the manufacturing process. At the end of the process, the production record is reviewed by the quality assurance team for completeness and correctness prior to the release of the lot and issuance of the Certificate of Analysis (CoA).

BPC manufacturing process

Final assembly - additional components are attached to the CentriPAK BPC main components to produce a complete CentriPAK BPC system. This is done to a catalog specification in an ISO 7 clean room.

Sterility assurance level -

CentriPAK BPC are gamma irradiated per ANSI/AAMI/ISO 11137 and lot controlled with a minimum of a 6-month shelf time user guarantee.

The Certificate of Analysis for the CentriPAK system reports compliance to:

- Visual inspection per specification
- USP Class VI testing for all product contact materials (USP<88>)
- Cytotoxicity testing of product contact films (USP<87>)
- USP Physicochemical Tests for Plastics of product contact films (USP<661>)
- Plastic Containers for Aqueous Solutions for Parenteral Infusion of product contact films (EP<3.2.2.1>)
- Endotoxin Test (USP<85>)
- Particulate Matter Test (USP<788>)
- Sterility Assurance Level (SAL) of 10⁻⁶ per ANSI/AAMI/ISO 11137
- The current revision of EMEA/410/01



Standards

Compliance

Full GMP/GLP traceability and compliance

- Two logging modes and optional external monitoring and control
- Simplified quality control and record keeping
- Electronic signatures for runs with user log-in and password protection

Latest global safety and compliance standards

• Complying with ISO 14971, the centrifuges undergo a comprehensive risk management process to help ensure maximum safety for both patients and users.

Full list of standards

- UL listed
- CE marked
- RoHS compliant
- WEEE compliant
- IEC 61010-1
- IEC 61010-2-020
- IEC 61326-1 Class B
- EN ISO 14971
- EN ISO 9001





Rotors and accessories (BIOS 16)

Descripti	on	Rotor capacity (places x volume, mL)	Maximum speed (rpm)	Maximum RCF (x g)	Cat. No.
BIOS 16 C	Centrifuge Rotors				
	6 x 1,000 mL Swinging Bucket Rotor, Round Buckets, and 1,000 mL Bottles (set)	6 x 1,000 mL	5,400	8,500	75003961
	6 x 1,000 mL Swinging bucket rotor, round buckets, 101 mm diameter	6 x 1,000 mL	5,400	8,500	75004861
	8 x 1,000 mL Swinging Bucket Rotor, Round Buckets, and 1,000 mL Bottles (set)	8 x 1,000 mL	4,600	7,117	75003981
×	8 x 1,000 mL Swinging bucket rotor, round buckets 101 mm diameter	8 x 1,000 mL	4,600	7,117	75004881
BIOS 16 C	Centrifuge Rotor Buckets, Bottles, and Ad	apters (sets of 2, unless	otherwise indic	ated)	
	Round Bucket				75003963
Ő	Cover for Round Bucket				11776
	Seal Kit for Cover for Round Bucket (sets of 6)				12995
	1,000 mL Nalgene Bottle, PPCO, (PC) 184.5 mm				3120-1000 (3122-1000)
	500 mL Oak Ridge Bottle Adapter (each)	6 or 8 x 500 mL			00444, 00511
	250 mL Oak Ridge Bottle Adapter (each)	6 or 8 x 250 mL			01092
	50 mL Disposable Conical Tube (Unsealed Bucket) Adapter (each)	30 or 40 x 50 mL			00436
	50 mL Disposable Conical Tube (Sealed Bucket) Adapter (each)	18 or 24 x 50 mL			00445
	15 mL Disposable Conical Tube Adapter (each)	48 or 84 x 15 mL			00447
	15 mL Blood Collection Tube Adapter (each)	108 or 144 x 15 mL			00385
	10 mL Blood Collection Tube Adapter (each)	108 or 144 x 10 mL			00385
	7 mL Blood Collection Tube Adapter (each)	132 or 176 x 7 mL			00384
	5 mL Blood Collection Tube Adapter (each)	132 or 176 x 5 mL			00857
	Round bucket 101 mm diameter				75004871
IN COLUMN	Conical Adapter for TPP TubeSpin® Bioreactor 87600				75004872

Descriptio	on	Rotor capacity (places x volume, mL)	Maximum speed (rpm)	Maximum RCF (x <i>g</i>)	Cat. No.
BIOS 16 C	entrifuge Rotors				
	6 x 2,000 mL Swinging Bucket Rotor, Oval Buckets, and 2,000 mL Bottles (set)	6 x 2,000 mL	4,700	7,187	75003962
	6 x 2,000 mL Swinging Bucket Rotor and 1,000 mL round fetal bovine serum (FBS) buckets	6 x 1,000 mL	4,700	7,187	75004662
×	8 x 2,000 mL Swinging Bucket Rotor, Oval Buckets, and 2,000 mL Bottles (set)	8 x 2,000 mL	3,900	5,374	75003982
*	8 x 2,000 mL Swinging Bucket Rotor and 1,000 mL round FBS buckets	8 x 1,000 mL	3,900	5,374	75004682

Desci	ription	Rotor capacity (places x volume, mL)	Maximum speed (rpm)	Maximum RCF (x g)	Cat. No.
BIOS	16 Centrifuge Rotor Buckets, Bottles, and Ada	pters (sets of 2, unless ot	herwise indica	ted)	
7	Oval Bucket				75003964
	2,000 mL Oval Bottle, PPCO (food grade)				75003870
6	2,000 mL BIOS Bottle, PP (non-sterile bottle including USP Class VI and noncytotoxic certifications)				75003872
6	2,000 mL SteriBIOS Bottle, PP (single- use, sterilized bottle using beta irradiation following standards ISO 11137-1 and ISO 11137-2; including USP Class VI and noncytotoxic certifications)	ION			75003871
	52 x 5/7 mL Blood Tube Adapter				75003341
001000	42 x 10 mL Blood Tube Adapter				75003342
	26 x 15 mL Conical Tube Adapter				75003343
	11 x 50 mL Conical Tube Adapter				75003344
L R C	5 x Microplates/1 x Deepwell Adapter				75003345
	500 mL Bottle (Conical Bottom) Adapter				75003346

Desc	ription	Rotor capacity (places x volume, mL)	Maximum speed (rpm)	Maximum RCF (x g)	Cat. No.
	1 L Round FBS Bucket				75004699
Û	1,000 mL Nalgene Bottle, PPCO				3120-1000
I	Double Blood Bag Bucket		4,700	7,187	75003846
•	Double Quint Blood Bag Adapter for XXL size (110 x 88 mm)	12 or 16 x 500 mL			75003851
0	Double Quint Blood Bag Adapter for XL size (110 x 76 mm)	12 or 16 x 500 mL			75003852
	Double Quint Blood Bag Adapter for M size (110 x 57 mm)	12 or 16 x 450 mL			75003853
	Hook Adapter for Cord Blood Separations, for use with M size Adapters	12 or 16 x 300 mL		1,328	75003855
	Hook Adapter for Cord Blood Separations, for use with XXL size Adapters	12 or 16 x 300 mL		1,328	75003868

The double blood bag buckets cannot be used to separate human blood.

CentriPAK BPC for BIOS 16 Centrifuge

Descriptio	n	Quantity	Cat. No.
	CentriPAK BPC Adapter for BIOS 16 2000 mL buckets	Set of 2	75003873
	Spacer for packing BPC chamber inside adapter (Blood bag spacer)	Set of 12	75003843
0000	CentriPAK BPC 6 x 1.7L harvest manifold (sterilized) for sterilized connect, quick connect, or weld-on 3/8 in. ID, (1/8 in. wall) connection	Set of 2	75003880
RI	10L CentriPAK Labtainer BPC for collection of supernatant	Set of 2	75003883
A	BPC steam-through adapter for connection to a stainless steel culture vessel	Set of 2	75003890
	CentriPAK BPC Single: 1.7L CentriPAK BPC (sterilized) with two 1/8 in. ID, 1/4 in. OD tubing for weld-on or Luer-Lock connection	Set of 2	75003885
41	CentriPAK BPC Single with Quick Connect: 1.7L CentriPAK BPC (sterilized) with two 1/4 in. ID with quick connects	Set of 12	75003891
	Adapter rack (6-place) for CentriPAK BPC Adapter	Each	75003889
	Rack for hanging CentriPAK BPC chambers	Each	75003892
6	BPC Clip: Long clip used with pump for separation of supernatant from pellet	Set of 2	75003886
	Peristaltic pump for separation of supernatant from pellet	Each	20210448

Rotors and accessories (BIOS A)

Description	Rotor capacity (places x volume, mL)	Maximum speed (rpm)	Maximum RCF (x <i>g</i>)	Cat. No.
Sorvall BIOS A Centrifuge Rotor				
Fiberlite F6-10x1000 LEX Carbon Fiber Rotor (complete with set of 10 bottles)	10 x 1,000 mL	6,250	12,000	096-101001
Sorvall BIOS A Centrifuge Rotor Bottles (sets of	2)			
SteriBIOS 1,000 mL Bottle System, PPCC (incl. 4 bottles, 4 caps, 4 plugs, and 8 O-rings)				010-1661
1,000 mL Fiberlite Superspeed Bottle Assembly, PPCO				010-1491
1,000 mL Fiberlite Superspeed Bottle Assembly, PC				010-1492
Rotor Lid Assembly (each)				099-101001
Rotor Care Kit (each)				020-101001

Software

Data collection options	Data transfer via USB	Data transfer via Ethernet	Device management via Centri-Log Plus software
	Centri-Track via USB*	Centri-Track via Ethernet*	Centri-Log Plus Software* Cat. No. 75007742
With barcode sample tracking	Sample Tracking Kit** Cat. No. 75007740	Sample Tracking Kit** Cat. No. 75007740	Sample Tracking Kit** Cat. No. 75007740
		Network Access Kit Cat. No. 75007741	Network Access Kit Cat. No. 75007741
Without sample tracking	Run log	Network Access Kit Cat. No. 75007741	Not available

* GMP mode must be enabled.

** Sample tracking kit contains barcode scanner, holder, and cable.

Product specifications

Specifications	BIOS 16 Centrifuge	BIOS A Centrifuge	
Maximum capacity	8 x 2,000 mL	10 x 1,000 mL	
Maximum speed	5,400 rpm	6,250 rpm	
Maximum RCF	8,500 × g	12,000 x g	
Drive system	DuraFlex high-torque br	ushless drive technology	
Accumulated Centrifugal Effect (ACE) integrator	Y	es	
Green technology	GreenCool technology; refrigeration off whe	en door opens; Eco-Spin windshielded rotors	
Control	Centri-Touch touc	chscreen interface	
Accel/decel profiles and existing protocol emulation	11 accel, 12 decel, mu	Itiple emulation profiles	
Modes	At start, at sp	eed, time start	
Step-runs	30 profile/speed/time triplets, up to 3 steps each		
Maintenance tracking log	Yes		
Protocol traceability	Built-in Centri-Track run logging software with optional Centri-Log Plus software avail		
Performance range	Speed 300–5,400 rpm; RCF 29–8,500 x g Speed 300–6,250 rpm; RCF 29-		
Run time	99 hours 59 min 59 sec (1-second increment)		
Pre-cooling function	Y	es	
Temperature set range	–20° to 40°C, adjustable to 1°C	–20° to 30°C, adjustable to 1°C	
Other functions	Multilingual selection, onboard training video opening, automatic rotor ID, on-screen displ steel chamber, guidance	s, user logging, user lock-out, automatic door ay for imbalance, over temperature, stainless display for error messages	
Dimensions	(H x W x D) 1,015 x 816 x 99	90 mm (39.9 x 32.1 x 35.4 in.)	
Weight	200, 208, 220, 230, 240 V; 50/60 Hz: 200, 208, 220, 230, 240 V; 50/60 415 kg (915 lb); 415 kg (915 lb); 380, 400, 415 V; 50 Hz: 380, 400, 415 V; 50 Hz: 438 kg (966 lb) 415 kg (915 lb);		
Heat output	<2.9 kW	3.5 kW/h	
Power consumption	<4,600 VA	<5,400 VA	
Noise level	58dB (A)	60dB (A)	
Certifications	UL, CE UL, CE		
Cleanroom compatibility	Class ISO 6 according	to DIN EN ISO 14644-1	
Standards	EN 61010-1 3rd Edition, IEC 61010-2-020 2nd Edition and IEC 61010-2-020 3rd Edition, EN 61326-1 Class B		
Warranty	2 years for unit, 5 years for powertrain (motor shaft and drive), 5 years for refrigeration		



Ordering information

Description		Cat. No.
Centrifuges		
BIOS 16 Bioprocessing Centrifuge with GreenCool Technology 200, 208, 220, 230, 240 V ±10%; 50/60 Hz; single phase		75008612
BIOS 16 Bioprocessing Centrifuge with GreenCool Technology 380, 400, 415 V \pm 10%; 50 Hz; 3 phase		75008617
BIOS 16 Heavy Duty Centrifuge with GreenCool Technology 200, 208, 220, 230, 240 ±10%; 50/60 Hz; single phase		75008614
BIOS A Centrifuge with GreenCool Technology (rotor to be ordered sep 200, 208, 220, 230, 240 V \pm 10%; 60 Hz, single phase; 200 V \pm 10%; 50	barately) Hz; Japan only	75008620
BIOS A Centrifuge with GreenCool Technology (rotor to be ordered sep 380, 400, 415 V \pm 10%; 50/60 Hz; 3 phase	parately)	75008621
BIOS A Heavy Duty Centrifuge with GreenCool Technology (rotor to be 200, 208, 220, 230, 240 V \pm 10%; 60 Hz; single phase; 200 V \pm 10%; 50	ordered separately) Hz; Japan only	75008622
Power plugs for BIOS 16 Centrifuges ^{††}		
IEC60309 32A-6h 3 pin blue, 200–250 V	(o o o	20190357
NEMA 6-30P 30A-6h, 200-250 V		20190358
IEC60309 32A-6h 5 pin red, 230–400 V		20190359
IEC60309 16A-6h 5 pin red (3P+N+PE), 380/400 V		20190360
3x AWG10 NEMA L6-30P/CEE		20190364
Power plugs for BIOS A Centrifuges ^{††}		
NEMA L6-30P 30A, 200–205 V (permanently connected with the device at the factory)		20190366
IEC60309 32A-6h 5 pin red (3P+N+PE), 220/380 V; 230/400V; 240/415 V		20190369
Accessories		
Drain Box (600 x 400 x 50 mm)		75007730

++ Centrifuges will include power plug most common for country of order. Please indicate alternate power plug requirements at time of order.

Find out more at thermofisher.com/bioscentrifuge

thermo scientific

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