



**Thermo Scientific Sorvall BP 8 and 16
Blood Banking Centrifuges**



**Proven productivity,
built around you**

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Proven productivity, built around you

Introducing the NEW! Thermo Scientific™ Sorvall™ BP 8 and 16 centrifuges designed for flexible, large capacity blood banking.

Thermo Scientific large capacity centrifuges have a proven track record for reliability and productivity in blood processing centers. Now the enhanced capacity of 16 x 500 mL blood bags and user-friendly design of the Sorvall BP 8 and 16 blood banking centrifuges make working with large volumes easier and more convenient using the protocols you've already validated and in compliance with global standards. Enhanced ergonomics and compact design combined with the quick set-up of traceable, reproducible runs makes this the centrifuge of choice for simplified blood processing productivity.



Enhanced ergonomics with push-button convenience

Thermo Scientific™ Auto-Door™ automatic centrifuge door opening and closing



Simplified operation and space-saving design

Thermo Scientific™ Auto-Lid™ instant rotor opening and closing with lid storage



Quick run set-up and standardization

Glove-friendly Thermo Scientific™ Centri-Touch™ interface with Thermo Scientific™ Centri-Cross™ function to convert your existing protocols



Improved capacity to maximize productivity

Unique 16 x 500 mL blood bag capacity



Latest global safety and compliance standards

Certified by UL
Listed with US FDA

Proven productivity, built around you

Combining more than 60 years of **application expertise with innovation** designed to improve your productivity.

High-throughput sample processing with the flexibility to match your current and future needs from 6, 8, 12 or 16 x 500 mL blood bags per run and designed to achieve reproducible results with the Thermo Scientific™ Accumulated Centrifugal Effect (ACE™) function, automatically adjusting run time to account for variations in acceleration.

Built-in safety and efficiency

- Compact design, automatic front-to-back centrifuge door opening and closing with Auto-Door and Auto-Lid rotor lid opening and storage optimize everyday centrifuge use, while standard power supply eliminates the need for expensive hardwiring
- Immediate rotor detection and programming with Thermo Scientific™ Auto-ID instant rotor identification that saves time and protects the integrity of your samples
- Centri-Touch interface with bright, highly visible and glove-friendly display simplifies run set-up, further enhanced with access controls such as user login with password protection and Centri-Cross protocol conversion
- Real-time run monitoring and control with Thermo Scientific™ Centri-View™ application
- Designed to assist with GMP/GLP compliance with Thermo Scientific™ Centri-Track™ on-board run logging of user, run conditions and error messages



Blood banking, built around you

Sorvall BP blood banking centrifuges are available in two models, offering the flexibility to select higher capacity rotors or match existing workflows, with a choice of 4 Thermo Scientific™ HAEMAFlex™ rotors.

	Expand individual bucket capacity		Maximize total blood bags per spin	
	For regular- to medium-throughput blood processing needs, select the Sorvall BP 8 centrifuge providing 6 x 550 mL blood bag capacity and, utilizing the same bucket system, is upgradeable to 8 x 550 mL bags		For high-throughput blood processing needs, choose the Sorvall BP 16 centrifuge with 12 x 500 mL capacity and is upgradeable to 16 x 500 mL blood bags with the same bucket selections	
				
				
Description	HAEMAFlex 6	HAEMAFlex 8	HAEMAFlex 12	HAEMAFlex 16
Cat. No.	75003861	75003881	75003862	75003882
Rotor Capacity (places x volume, mL)	6 x 550 mL	8 x 550 mL	12 x 500 mL	16 x 500 mL
Maximum Speed (rpm)	5,000 rpm	4,600 rpm	4,700 rpm	3,900 rpm
Maximum RCF (x g)	7,295 x g	7,144 x g	7,187 x g	5,374 x g

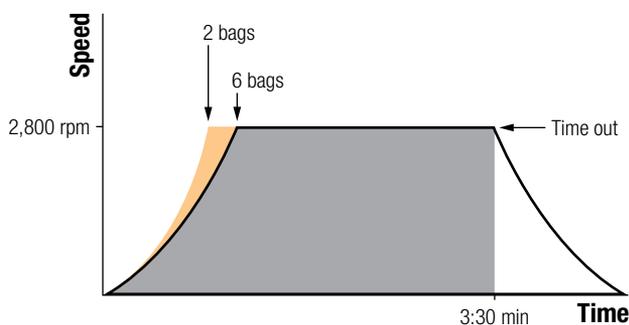


Rotor buckets with Thermo Scientific™ Dura-Coat™ nickel-coating are also available, providing protection against corrosion due to moisture, chemicals or alkaline solutions that otherwise can weaken the structural integrity of a metal rotor bucket.

Ergonomics and safety, built around you

- Effortless loading and unloading with optimal working height of 930 mm
- Listed with US FDA, with latest global safety standards including UL, without the need to bolt down the instrument to the floor, greatly simplifying installation and flexibility to relocate within a facility
- Designed for run-to-run reproducibility
 - ACE function automatically adjusts the centrifuge run time to compensate for variations in acceleration due to full or partial rotor loading (see Figure 1.)

Results Without the ACE Integrator Function



Results With the ACE Integrator Function

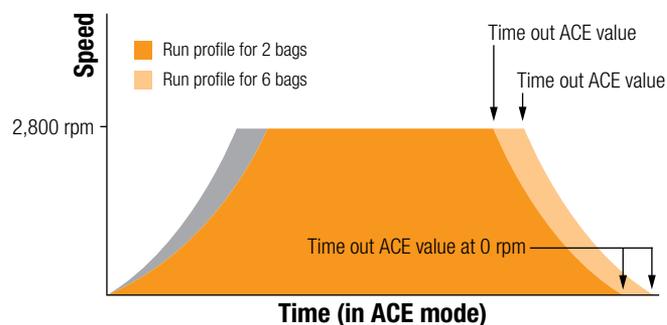


Figure 1. In a typical first centrifugation step, a two-bag rotor load attains set speed faster than a six-bag load. Since both loads will time out at the set time of 3:30 minutes, different g-forces are achieved during the run. By using the ACE integrator function, the time for 2 bags would be changed 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.

- Automatically neutralize up to 125 g loading imbalance with Thermo Scientific™ DuraFlex™ drive technology
- In slow start/stop mode, select from 11 acceleration and 12 deceleration profiles, including profiles loaded from another Thermo Scientific large capacity centrifuge, to customize results for maximum yields with minimum re-suspension
- With the press of a button, Auto-Door automatically and completely opens or closes the centrifuge door, with hands-free Auto-Lid rotor lid storage on the centrifuge door
- Auto-ID instant rotor identification eliminates over-speed risk, reduces error messages and improves centrifuge, sample and operator safety
- Thermo Scientific™ Eco-Spin™ windshielded rotors provide energy savings up to 64% when compared with non-windshielded rotors¹ (see Figure 2.)

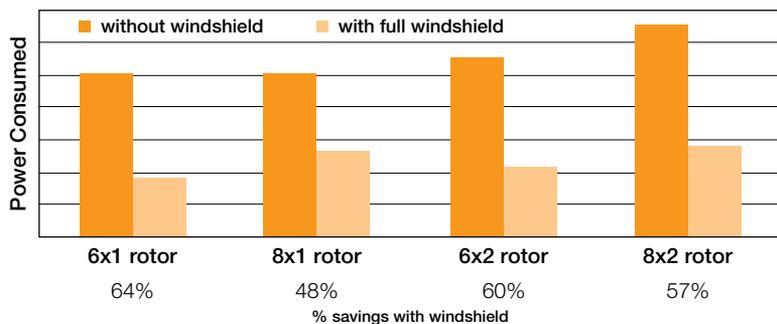


Figure 2. Power consumption of Thermo Scientific windshielded rotors as compared with non-windshielded designs of the same rotor body.

¹ Based on an engineering evaluation of windshielded and non-windshielded designs of the same rotor body.

Operation, built around you

Large, bright, interactive Centri-Touch interface for all centrifuge functions and durable for use run after run, year after year

- Glove- and detergent-friendly
- Simple and quick run set-up with ACE function, Speed, Time, Temp, plus Pre-Temp and Accel and Decel ramps
- Convenient virtual 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 set-up and monitoring

6.08 E 03

PROCESSING

3,000 rpm **20 °C**

ACCEL	ACE	DECCEL
2	2.50 E 08	2

SPEED	TEMPERATURE
3,000 rpm	22 °C

SELECT PROGRAM Haemaflex 16 DBS BUCKET

Status Information

Run Parameters

Control and Configuration

Easily set current parameters and monitor centrifuge status

Operation, built around you

Plus powerful functions are just one touch away:

- Quick recall of up to 120 programs with alpha-numeric 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



Emulate protocols from other centrifuges with Centri-Cross function



Connection, built around you

Our Centri-View application provides real-time connection with your Sorvall BP 8 and 16 blood banking centrifuges. With your smart device, check your run status or if a centrifuge is available from across the campus, building or lab.

- Determine status at-a-glance of 1 or up to 100 centrifuges
- 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 Centri-View application for instant remote monitoring and control, available for both iOS™ and Android™, and stay connected.

Compliance, built around you

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:
 - UL Listed
 - US FDA Listed
 - RoHS Compliant
 - WEEE Compliant
 - EN 61010-1 3rd. Edition
 - IEC 61010-2-020 2nd ed &.CDV 61010-2-020 3rd Edition
 - IEC 61010-2-101 3rd Edition
 - EN 61326-1 Class B

Data collection

On-board Centri-Track run logs, downloadable via USB port or real-time via Ethernet

Ordering Information

Data Collection Options	Data Transfer via USB	Data Transfer via Ethernet
With Barcode Sample Tracking	Centri-Track via USB ²	Centri-Track via Ethernet ²
	Sample Tracking Kit ³ Cat. No. 75007740	Sample Tracking Kit ³ Cat. No. 75007740
		Network Access Kit Cat. No. 75007741
Without Sample Tracking	Run Log	Network Access Kit Cat. No. 75007741

² GMP-mode must be enabled.

³ Sample tracking kit contains barcode scanner, holder and cable.



Rotor Specifications

Cat. No.	Description	Rotor Capacity (places x volume, mL)	Maximum Speed (rpm)	Maximum RCF (x g)
Rotors				
75003861	 HAEMAFlex 6 Swinging Bucket Rotor	6 x 550 mL blood bags (6 x 1000 mL) ⁴	5,000	7,295
75003881	 HAEMAFlex 8 Swinging Bucket Rotor	8 x 550 mL blood bags (8 x 1000 mL) ⁴	4,600	7,144

⁴ Blood bag volume includes satellites and filters; total bucket volume is approximately 1000 mL.

Cat. No.	Description	Rotor Capacity (places x volume, mL)	Maximum Speed (rpm)	Maximum RCF (x g)
Rotor Buckets and Adapters (sets of 2)⁵				
75003834	 Oval Single Blood Bag Bucket		5,000	7,127
75003863	 Oval Single Blood Bag Bucket with Dura-Coat		5,000	7,127
75003837	 450–550 mL Quad or Quint Blood Bag Adapter	6 or 8 x 550 mL		
75003838	 400–450 mL Double or Triple Blood Bag Adapter	6 or 8 x 450 mL		
75003839	 250 mL Platelet-rich Plasma or Buffy Coat Bag Adapter	6 or 8 x 250 mL		
75003841	 400–450 mL Single or Double Blood Bag Adapter	6 or 8 x 450 mL		
75003835	 Single Blood Bag Bucket with Filter Pack		5,000	7,211
75003842	 450–550 mL Triple, Quad or Quint Blood Bag with Additive Solution Adapter	6 or 8 x 550 mL		
75003859	 Filter Holder			
75003836	 Single Blood Bag Round Bucket		5,000	7,295
75003864	 Single Blood Bag Round Bucket with Dura-Coat		5,000	7,295
75003857	 450–500 mL Triple or Quad Blood Bag Adapter	6 or 8 x 500 mL		
75003858	 450 mL Single or Double Blood Bag Adapter	6 or 8 x 450 mL		

⁵ Order three sets of rotor buckets and adapters for use with the HAEMAFlex 6 rotor and four sets for use with the HAEMAFlex 8 rotor.

Rotor Specifications, cont.

Cat. No.	Description	Rotor Capacity (places x volume, mL)	Maximum Speed (rpm)	Maximum RCF (x g)
Rotors				
75003862	 HAEMAFlex 12 Swinging Bucket Rotor	12 x 500 mL blood bags (12 x 1000 mL) ⁴	4,700	7,187
75003882	 HAEMAFlex 16 Swinging Bucket Rotor	16 x 500 mL blood bags (16 x 1000 mL) ⁴	3,900	5,374

⁴ Blood bag volume includes satellites and filters; total bucket volume is approximately 1000 mL.

Cat. No.	Description	Rotor Capacity (places x volume, mL)	Maximum Speed (rpm)	Maximum RCF (x g)
Rotor Buckets and Adapters (sets of 2)⁵				
75003846	 Double Blood Bag Bucket		4,700	7,187
75003865	 Double Blood Bag Bucket with Dura-Coat		4,700	7,187
75003851	 Double Quint Blood Bag Adapter for XXL size (110 x 88 mm)	12 or 16 x 500 mL		
75003852	 Double Quint Blood Bag Adapter for XL size (110 x 76 mm)	12 or 16 x 500 mL		
75003853	 Double Quint Blood Bag Adapter for M size (110 x 57 mm)	12 or 16 x 450 mL		
75003855	 Hook Adapter for Cord Blood Separations, for use with M size Adapters	12 or 16 x 300 mL		1,328
75003868	 Hook Adapter for Cord Blood Separations, for use with XXL size Adapters	12 or 16 x 300 mL		1,328

⁵ Order three sets of rotor buckets and adapters for use with the HAEMAFlex 12 rotor and four sets for use with the HAEMAFlex 16 rotor.

Cat. No.	Description
Rotor Accessories	
75003833	 Liner Stand for Single Blood Bag Adapters (set of 2)
75003832	 Liner Stand for Double Blood Bag Adapters (set of 2)
75003843	Blood Bag Spacer (set of 12)
75006681	Rubber Volume Compensation Plates (set of 12)
75005759	Rubber Balancing Plates (set of 4)
75003866	Dummy Weights

Centrifuge Specifications

Specifications	Sorvall BP 8 Centrifuge	Sorvall BP 16 Centrifuge
Capacities	6 x 550 mL and 8 x 550 mL blood bags	12 x 500 mL and 16 x 500 mL blood bags
Maximum Speed	5,000 rpm	4,700 rpm
Maximum RCF	7,295 x g	7,187 x g
Drive System	DuraFlex high torque brushless drive technology	DuraFlex high torque brushless drive technology
Imbalance Tolerance	125 g in opposite loads	125 g in opposite loads
Accumulated Centrifugal Effect (ACE) Integrator	Yes	Yes
Green Technology	Refrigeration off when door opens; Eco-Spin windshilded rotors	Refrigeration off when door opens; Eco-Spin windshilded rotors
Control	Centri-Touch touchscreen interface	Centri-Touch touchscreen interface
Accel/Decel Profiles and Existing Protocol Emulation	11 accel, 12 decel, multiple emulation profiles	11 accel, 12 decel, multiple emulation profiles
Modes	At start, at speed, time start	At start, at speed, time start
Step-Runs	Yes, 30 profile/speed/time triplets, up to 3 steps each	Yes, 30 profile/speed/time triplets, up to 3 steps each
Maintenance Tracking Log	Yes	Yes
Protocol Traceability	Yes, built-in Centri-Track run logging	Yes, built-in Centri-Track run logging
Performance Range	Speed 300–5,000 rpm; RCF 26–7,295 x g	Speed 300–4,700 rpm; RCF 29–7,187 x g
Run Time	99 hours 59 min 59 sec (1 second increment)	99 hours 59 min 59 sec (1 second increment)
Pre-Cooling Function	Yes	Yes
Temperature Set Range	–20 to 40 °C, adjustable to 1 °C	–20 to 40 °C, adjustable to 1 °C
Other Functions	Multilingual selection, on-board training videos, user logging, user lock-out, automatic door opening, automatic rotor ID, on screen-display for imbalance, over temperature, stainless steel chamber, guidance display for error messages	
Dimensions (H x W x D)	1015 x 816 x 900 mm (39.9 x 32.1 x 35.4 in)	1015 x 816 x 900 mm (39.9 x 32.1 x 35.4 in)
Weight	230V: 465 kg / 1025.2 lbs; 400V: 495 kg / 1091.3 lbs	230V: 465 kg / 1025.2 lbs; 400V: 495 kg / 1091.3 lbs
Heat Output	< 2 kW	< 2 kW
Power Consumption	< 5,400 VA	< 5,400 VA
Universal Power	200–240 V, 50/60 Hz or 380V, 400V, 415V, 50 Hz, 3-phase	200–240 V, 50/60 Hz or 380V, 400V, 415V, 50 Hz, 3-phase
Certifications	UL, FDA	UL, FDA
Standards	EN 61010-1 3rd. Edition, IEC 61010-2-020 2nd ed & CDV 61010-2-020 3rd Edition, IEC 61010-2-101 3rd Edition, EN 61326-1 Class B	
Warranty	2 yrs unit, 5 yrs power-train (motor shaft and drive), 5 yrs refrigeration	



Ordering Information

Centrifuges	
Cat. No.	Description
75007681	Sorvall BP 8 centrifuge, 200, 208, 220, 230, 240 V \pm 10%, 50/60 Hz, Single phase
75007689	Sorvall BP 8 centrifuge, 380, 400, 415 V \pm 10%, 50 Hz, 3-phase
75007683	Sorvall BP 16 centrifuge, 200, 208, 220, 230, 240 V \pm 10%, 50/60 Hz, Single phase
75007695	Sorvall BP 16 centrifuge, 380, 400, 415 V \pm 10%, 50 Hz, 3-phase
Power Plugs ⁶	
Cat. No.	Description
20190357	IEC60309 32A-6h-3-pin blue, 200-250 V
20190358	NEMA 6-30P 30 A-6h, 200-250 V
20190359	IEC60309 32A-6h 5-pin red, 230-400 V
20190360	IEC60309 16A-6h 5 pin red (3P+N+PE), 380/400 V
20190364	3x AWG10 NEMA L6-30P / CEE
Accessories	
Cat. No.	Description
75007730	Drain Box (600 x 400 x 50 mm)

⁶ Power plugs must be ordered along with centrifuge, but at no additional cost.



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