Thermo Scientific Heraeus Megafuge 16 and Megafuge 40 Centrifuge Series

Unmatched capacity, ergonomics and value for routine processing needs

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Global Leader in Quality and Reliability

For more than 100 years, Thermo Scientific centrifuges have delivered outstanding performance and reliability in the lab. From basic benchtop instruments to advanced floor models, we take pride in manufacturing centrifuges that offer exceptional quality for consistent results year after year.

Thermo Scientific Heraeus Megafuge Series

The Thermo Scientific Heraeus Megafuge general purpose centrifuge series, provides industry-leading capacity and ergonomics at an exceptional value for everyday sample preparation – clinical protocols, cell culture applications, microplate processing and a variety of separation needs.

4x400 ml
Heraeus Megafuge 16

4x750 ml
Heraeus Megafuge 40

Unparalleled Throughput

Accelerate productivity with unmatched capacity in minimum bench space

32 to 76 x 5/7 ml blood tubes with the TX-200 or TX-400 rotors

Up to 16 x 50 ml conical tubes in our standard TX-400 swing-out rotor

Up to 108 x 5/7 ml blood tubes or 28 x 50 ml conical tubes with the TX-750 rotor

Up to 196 x 5/7 ml blood tubes or up to 40 x 50 ml conical tubes with the high capacity BIOLiner rotor

Exceptional Ergonomics

Achieve safe, simple and comfortable daily operation with our breakthrough innovations, while operating at a convenient working height of only 31 cm/ 12.4 in.

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Exceptional Capacity Boosts Productivity

Our Heraeus® Megafuge® 16 and Megafuge 40 centrifuge series are available in both ventilated and refrigerated units, ideal for a range of routine applications and temperature-sensitive sample processing with control between -10°C and +40°C.

Breakthrough Thermo Scientific Technologies

Auto-Lock® III Rotor System

Secure locking system delivers:

- Installation and exchange of rotors with just the push of a button for quick switch between applications
- Easy chamber access enables cleaning convenience, reducing contamination risk and leading to improved research and a healthier working environment

ClickSeal® Bucket Sealing System

Innovative biocontainment solution provides:

- Simple operation eliminating screw caps and complicated clips
- Glove-friendly, one-handed open/close capability
- Biocontainment certification by HPA, Porton Down, UK (formerly CAMR).
- Transparent and biocompatible polyetherimide (PEI) sealing covers have broad chemical resistance, excellent thermal properties and exceptional strength for durability

Fiberlite® Carbon Fiber Rotors

- Maximize centrifuge performance with increased capacity, faster speeds and higher g-force

Motorized Lid Latch

- One finger downward motion for easiest closing and locking – even on tall benches
- Optional automatic lid opening at end of run

Compact, Comfortable Design

- Exceptional capability in compact dimensions maximizes workspace
- Low profile and curved design ensure comfortable loading and unloading of samples and cleaning of the unit

SMARTSpin® Technology

- Dynamic technology improves safety and run results by considering chamber temperature, rotor and bucket combination and selected speed to auto-correct maximum rotor speed, calibrate the imbalance detector and optimize motor power during acceleration and braking

energy savings

Advanced Technology for Resource Efficiency

> Less energy is consumed per tube – up to 40% fewer watts per tube than competing models - since larger capacity reduces number of runs required for a given batch of samples

> 15% energy savings compared with standard stand-by power consumption with unique "powersave" feature, enabled by default, that turns off display when not in use

> Reduce capital investment and eliminate unnecessary equipment disposal issues with longer lifetime of Fiberlite rotors – guaranteed 15 years

> Compliance with RoHS (Restriction of Hazardous Substances Directive) and WEE (Waste Electrical and Electronic Equipment Directive)

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Intuitive Controls Simplify Operation

The Heraeus Megafuge centrifuge series features easy-to-use controls with detailed information on a wide range of operating parameters and processing status.

Dedicated Program Keys

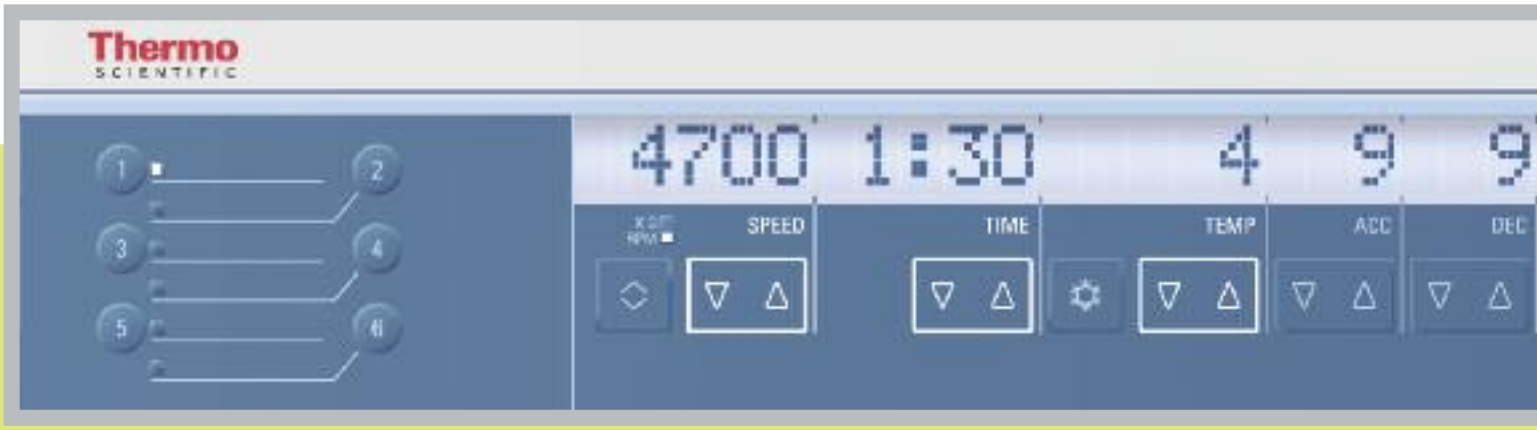
Immediate storage and access to your most frequently used programs with unique writing area for naming programs

Accessible Programming

Easily adjust speed, time and temperature, even during the run

Easy to Read and Use

- Highly visible, backlit display for clear reading of parameters from across the lab
- Multilingual instructions, including English, German, French, Spanish, Russian, Italian and Dutch, on programming, run conditions, alerts and service messages
- Glove- and detergent-friendly panel



Program Keys
Direct access to 6 most frequently used programs with one keystroke save and recall.

Dataport Option
To transport data to a PC, a dataport kit is available (cat. no. 50124205 for Heraeus Megafuge 16 Centrifuge series and 20190345 for Heraeus Megafuge 40 Centrifuge series)

Speed Control:
Immediate toggle between RCF and speed control up to 25830 x g or 15200 rpm

Temp: (refrigerated unit)
Control temperatures between -10°C and +40°C

Pre-Temp: (refrigerated unit)
Achieve 4°C from ambient 23°C in 15 minutes*

Accel/Decel:
Choice of 9 acceleration and 10 deceleration rates

**with Thermo Scientific BIOLine rotor*

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Bucket:
Quickly adjust rotor parameters for optimal RCF calculation and temperature management

Pulse:
Ideal for short runs

Open:
Motorized latch with optional automatic opening

Looking for high-performance processing?

See our new Thermo Scientific Heraeus Multifuge Series

The one-liter Heraeus Multifuge® X1 and three-liter Heraeus Multifuge X3 general purpose centrifuges deliver exceptional, market-leading performance, capacity and throughput.

Advanced, intuitive controls with double temperature management system ensure the highest accuracy and maximum results of your sample processing.

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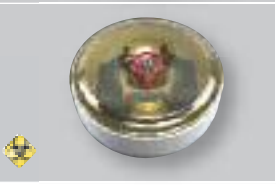
Incredible Capacity and Productivity

Our Heraeus Megafuge 16 and Megafuge 40 centrifuge series feature a wide range of Thermo Scientific rotors to meet your daily, routine processing requirements.

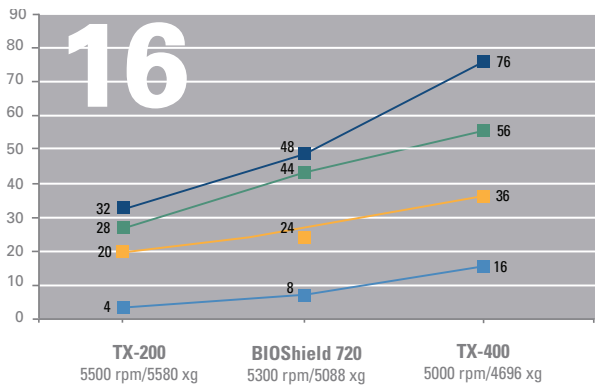
Swinging Bucket Rotors

		Heraeus Megafuge 16	Heraeus Megafuge 40
	TX-200 **High speed productivity** >> Serving primary swing-out processing needs, with a capacity of 32 blood tubes or 4 conical tubes per run in sealed conditions, achieve an impressive mix of speed and accelerating/braking power.	**5500 rpm 5580 xg**	
	TX-400 **Maximum flexibility** >> Designed for a broad range of laboratory throughput needs, with a capacity of 76 blood tubes and up to 16 conical tubes in a single run, for the highest configuration flexibility on the market.	**5000 rpm 4696 xg**	
	TX-750 **Outstanding versatility** >> Delivers maximum flexibility at 4700 rpm and features a choice of round or rectangular buckets with multiple adapters as well as microplate carriers		**4700 rpm 4816 xg**
	BIOLiner® **Exceptional capacity** >> Significantly improves productivity – process over 100% more 50 ml conical tubes or 100% more blood tubes with biocontainment sealing per run than with competitive models. Certified sealed microplate carriers expand application options.		**3500 rpm 2739 xg**
	M-20 **Compact processing** >> Centrifuges up to 6 microplates in certified sealed conditions with transportable carriers and the versatility of Auto-Lock rotor installation.	**4000 rpm 2272 xg**	**4000 rpm 2272 xg**
	**BIOShield® 720 and BIOShield 1000A** **Excellent performance** >> Runs frequently used tubes above 5500 xg with the confidence and simplicity of a single, certified biosafety lid.	**5300 rpm 5088 xg** BIOShield 720	**5300 rpm 5590 xg** BIOShield 1000A

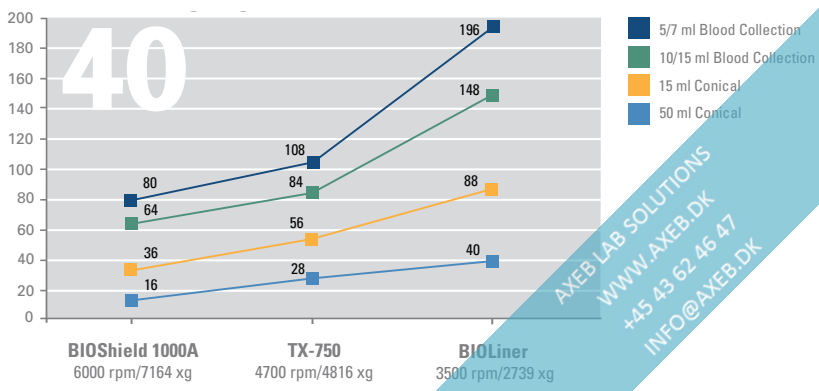
Biocontainment certified by HPA, Porton Down, UK (formerly CAMR).

Tube Capacity Selector Guide

Heraeus Megafuge 16



Heraeus Megafuge 40



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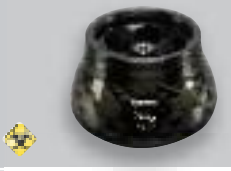
Rotors

Fixed Angle Rotors

		Heraeus Megafuge 16	Heraeus Megafuge 40
	**Fiberlite F15-6x100y** Durable design for general purpose pelleting of organelles, density gradients and various protocols requiring angle centrifugation of disposable conical tubes up to 18516 xg.	**13000 rpm 18516 xg**	**13000 rpm 18516 xg**
	CLINIConic® Spin 30 x 15 ml round or conical tubes and ensure acceleration and throughput for cell culture and blood separation applications.	**5650 rpm 4997 xg**	
	8x50 Sealed Ideal for TB sputum applications, centrifuge 8 conical tubes in individually sealed vessels, which can be prepared remotely, with rapid acceleration and processing times.	**6700 rpm 7177 xg[1]**	
	HIGHConic II Process 6 x 94 ml tubes between 10000 and 15000 xg in certified sealed conditions.	**8500 rpm 10178 xg**	**10350 rpm 15090 xg**
	Micro-Volume Rotors Perfect blend of capabilities to support micro-volume protocols, such as nucleic acid or protein lysate preparation and PCR reaction set-up. With Auto-Lock rotor exchange, transform your general purpose unit into a powerful microcentrifuge in less than 3 seconds!		
	Fiberlite F21-48x2		**15200 rpm 25055 xg**
	Microliter 30x2	**15200 rpm 25830 xg**	
	Microliter 48x2		**15200 rpm 25314 xg**

[1] Performance with 230 V centrifuge models.

Thermo Scientific Fiberlite Rotors

Setting new performance standards for benchtop processing

Our carbon fiber rotors maximize the performance of Heraeus Megafuge centrifuges with versatility, speed and robust, corrosion-free design, now within your reach.

Unequalled durability and cleaning convenience: Corrosion- and fatigue-resistance eliminate an ever-present hazard from the exposure of moisture, chemicals or alkaline solutions

Superior insulation: Naturally insulating properties ensure samples are kept at a constant temperature during centrifugation

Improved ergonomics and productivity: Lightweight – design provides faster acceleration/deceleration rates for shorter run times, as well as a safer work environment

Exceptional value: A secure investment, backed by a 15-year warranty ensures dependable results over an extended lifetime

Rotor stand is now available to store your rotor when not in use, allowing rotors and buckets to be removed and kept simply and safely (cat. no. 75003711).

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TX-200
Swinging Bucket Rotor[1]

Thermo Scientific Rotors and Adapters

Cat. No		Description	Rotor Capacity (Places x Volume)	Max Tube Dimensions (Ø x L, mm)	Heraeus Megafuge 16/16R Max Speed (rpm)	Heraeus Megafuge 16/16R Max RCF (xg)	Heraeus Megafuge 40/40R Max Speed (rpm)	Heraeus Megafuge 40/40R Max RCF (xg)
75003658		**TX-200 Swinging Bucket Rotor***						
75003659		**Round Buckets (set of 4), 90°, R_{max} 165 mm**	**4 x 180 ml**		**5500** **5250**[2]	**5580** **5084**[2]	**n/a**	**n/a**
75003660		**ClickSeal Biocontainment Lids for Round Buckets** (set of 4)						
75003687		Replacement O-rings for Lids (set of 4)						
		Adapters for Round Buckets (sets of 4)						
No adapter needed	1	180 ml Polypropylene Screw Cap Bottle (75003800, pkg of 12)	4 x 180 ml	56.5 x 123				
75003801	2	100 ml Round Bottom Open-Top Tube	4 x 100 ml	48 x 122				
75003802	3	50 ml DIN Round Bottom Tube	4 x 50 ml	35 x 126				
75003815	4	50 ml Round Bottom Tube	4 x 50 ml	32 x 126				
75003803	5	50 ml Conical or Skirted Tube	4 x 50 ml	29.5 x 126				
75003804	6	25 ml Universal Tube	4 x 25 ml	25.5 x 118				
75003805	7	25 ml DIN Round/Flat Bottom Tube	8 x 25 ml	25 x 118				
75003806	8	20 ml Round Bottom Tube	12 x 25 ml	22 x 125				
75003771	9	15 ml Conical Tube	20 x 20 ml	17 x 121				
75003809	10	15 ml Blood Collection Tube	16 x 15 ml	17 x 121				
75003807	11	14 ml Conical Urine Tube	8 x 14 ml	17 x 114				
75003808	12	10 ml Blood Collection or 15 ml Corex®/Kimble® Tube	28 x 10/15 ml	17 x 121				
75003785	13	5/7 ml or 4.5/6 ml Blood Collection Tube	32 x 5/7 ml	13 x 122				
75003810	14	5/7 ml Round Bottom Open-Top Tube	36 x 5/7 ml	13 x 118				
75003811	15	3/5 ml RIA or Round Bottom Tube (without cap)	48 x 3/5 ml	12 x 124				
75003812	16	1.5/2 ml Conical Microtube	48 x 2 ml	11 x 45				

[1] Buckets and lids sold separately

[2] 120 V ventilated centrifuge

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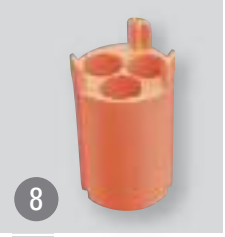

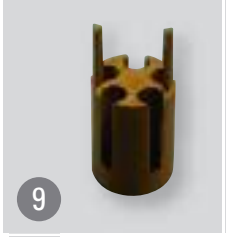

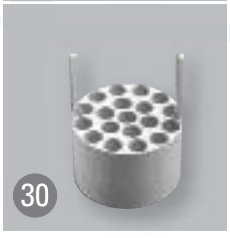

TX-400
Swinging Bucket Rotor[1]

Thermo Scientific Rotors and Adapters

Cat. No		Description	Rotor Capacity (Places x Volume)	Max Tube Dimensions (Ø x L, mm)	Heraeus Megafuge 16/16R Max Speed (rpm)	Heraeus Megafuge 16/16R Max RCF (xg)	Heraeus Megafuge 40/40R Max Speed (rpm)	Heraeus Megafuge 40/40R Max RCF (xg)
75003629		**TX-400 Swinging Bucket Rotor**						
75003655		**Round Buckets (set of 4), 90°, R_{max} 168 mm**	**4 x 400 ml**		**5000**	**4696**	**n/a**	**n/a**
75003656		**ClickSeal Biocontainment Lids for Round Buckets (set of 4)**						
75003657		Replacement O-rings for Lids (set of 4)						
		Adapters for Round Buckets (sets of 4)						
No adapter needed	17	400 ml Polypropylene Bio-Bottle (75007585, pkg of 12)	4 x 400 ml	80 x 125				
75003788	18	250 ml Thermo Scientific Nalgene Oak Ridge Bottle	4 x 250 ml	62 x 135				
75003788	18	200 ml Thermo Scientific Nunc Conical Bottle + Nunc no. 377585	4 x 200 ml	62 x 125				
75003788	18	225 ml and 175 ml BD Falcon™ Conical Bottle + BD no. 352090	4 x 175 ml	62 x 125				
75003708	19	100 ml Round Bottom Open-Top Tube	4 x 100 ml	45 x 117				
75003707	20	50 ml DIN Round Bottom Tube	12 x 50 ml	34.5 x 105				
75003799	21	50 ml Round Bottom Tube	16 x 50 ml	28.5 x 114				
75003683	22	50 ml Conical Tube	16 x 50 ml	29.5 x 116				
75003703	23	30/25 ml DIN Round/Flat Bottom Tube	20 x 30 ml	25.5 x 108				
75003706	24	25 ml Universal Tube	12 x 20 ml	25 x 110				
75003682	25	15 ml Conical Tube	36 x 15 ml	17 x 121				
75003794	26	15 ml Blood Collection Tube (17 x 125 mm)	16 x 15 ml	15.5 x 131				
75003704	27	15 ml Round Bottom Tube (Sarstedt®)	40 x 15 ml	17 x 105				
75003798	28	14 ml Conical Urine Tube	28 x 14 ml	17 x 112				
75003681	29	10 ml Blood Collection or 15 ml Corex/Kimble Tube	56 x 10/15 ml	17 x 113				
75003680	30	5/7 ml Blood Collection Tube (Vacutainer®)	76 x 5/7 ml	13 x 110				
75003825		4.5/6 ml Blood Collection Tube (Greiner®)	64 x 4.5/6 ml	13 x 110				
75003793	31	3 ml RIA or Round Bottom Tube (without cap)	76 x 3/5 ml	11 x 110				
75003700	32	1.5/2 ml Conical Microtube	136 x 2 ml	11 x 45				

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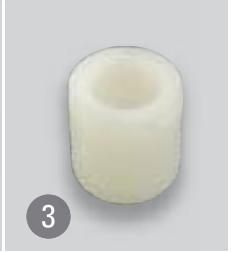
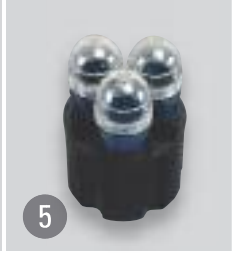
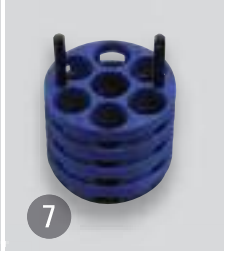
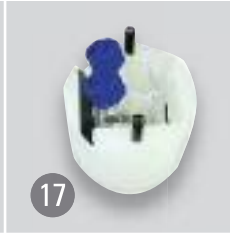
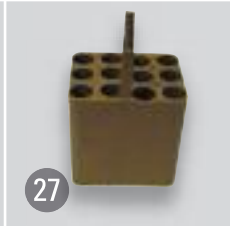
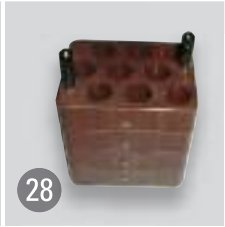






TX-750 Swinging Bucket Rotor[1]



Thermo Scientific Rotors and Adapters

Cat. No		Description	Rotor Capacity (Places x Volume)	Max Tube Dimensions (Ø x L, mm)	Heraeus Megafuge 16/16R Max Speed (rpm)	Heraeus Megafuge 16/16R Max RCF (xg)	Heraeus Megafuge 40/40R Max Speed (rpm)	Heraeus Megafuge 40/40R Max RCF (xg)
75003607		**TX-750 Swinging Bucket Rotor**						
75003608		**Round Buckets (set of 4), 90°, R_{max} 195 mm**	**4 x 750 ml**		**n/a**	**n/a**	**4700**	**4816**
75003609		**ClickSeal Biocontainment Lids for Round Buckets (set of 4)**						
75003610		Replacement O-rings for Lids (set of 4)						
		Adapters for Round Buckets (sets of 4 unless otherwise noted)						
No adapter needed	1	750 ml Polypropylene Bio-Bottle (75003699, pkg of 12)	4 x 750 ml	98 x 133				
Corning no. 431124		500 ml Corning® Conical Bottle	4 x 500 ml	98 x 133				
75003792	2	250 ml Corning Conical Bottle (in open buckets only)	4 x 250 ml	62.5 x 139				
75003710	3	250 ml Nalgene® Oak Ridge Bottle	4 x 250 ml	62.5 x 139				
75003710	3	225 ml and 175 ml BD Falcon Conical Bottle +BD no. 352090	4 x 225 ml	62.5 x 139				
75003710	3	200 ml Nunc™ Conical Bottle + Nunc no. 377585	4 x 200 ml	62.5 x 139				
75003710	3	175 ml Nalgene Bottle + Nalgene no. DS3126-0175	4 x 175 ml	62.5 x 139				
75003713	4	100 ml Round Bottom Open-Top Tube	8 x 100 ml	45 x 123				
75003714	5	50 ml Conical Tube (includes sealing vessel)*	12 x 50 ml	29.5 x 120				
75003638	6	50 ml Conical Tube	28 x 50 ml	29.5 x 120				
75003715	7	50 ml Round Bottom Tube	28 x 50 ml	29.5 x 120				
75003824	8	50 ml Conical or Skirted Tube	20 x 50 ml	29.5 x 120				
75003716	9	25 ml Universal Conical or Skirted Tube	28 x 25 ml	25.5 x 120				
75003639	10	15 ml Conical Tube	56 x 15 ml	17 x 122				
75003719	11	15 ml Blood Collection Tube (17 x 125 mm) (inner circle only)	32 x 15 ml	17 x 134				
75003718	12	14 ml Conical Urine Tube	48 x 14 ml	18 x 124				
75003719	11	10 ml Blood Collection or 15 ml Corex/Kimble Tube	84 x 10/15 ml	17 x 117				
75003723	13	5/7 ml or 4.5/6 ml Blood Collection Tube Blood	108 x 5/7 ml	13 x 116				
75003724	14	5 ml RIA or Round Bottom Tube (without 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	15	1.5/2 ml Conical Microtube	192 x 2 ml	11 x 50				
75008383	16	T-75 Nunc Easy Flask (set of 2)	4 x T-75	-				
75008384	17	T-25 Nunc Easy Flask (set of 2)	8 x T-25	-				

[1] Buckets and lids sold separately

*Sealed vessels can also be used with certified ClickSeal lids for double biocontainment protection.

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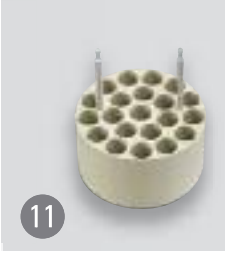

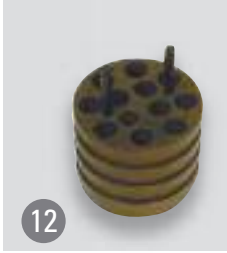

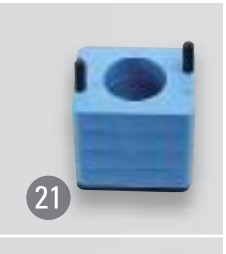

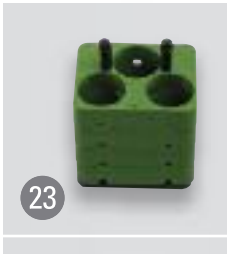

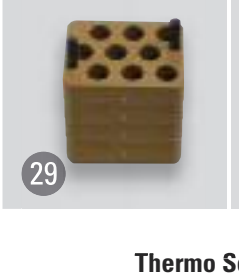

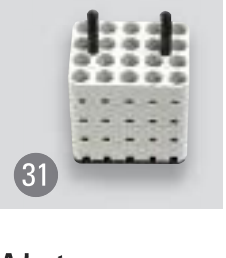

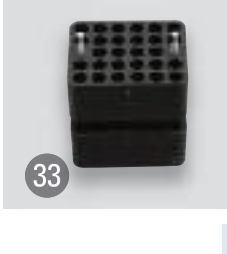

Thermo Scientific Rotors and Adapters

Cat. No		Description	Rotor Capacity (Places x Volume)	Max Tube Dimensions (Ø x L, mm)	Heraeus Megafuge 16/16R Max Speed (rpm)	Heraeus Megafuge 16/16R Max RCF (xg)	Heraeus Megafuge 40/40R Max Speed (rpm)	Heraeus Megafuge 40/40R Max RCF (xg)
		TX-750 Swinging Bucket Rotor (continued)						
75003614	18	**Rectangular Buckets (set of 4), 90°, R_{max} 195 mm**	**4 x 250 ml**		**n/a**	**n/a**	**4500** **4700[3]** **4300[4]**	**4415** **4816[3]** **4031[4]**
75003615		**ClickSeal Biocontainment Lids for Rectangular Buckets (set of 4)**						
75003616		Replacement O-rings for Lids (set of 4)						
		Adapters for Rectangular Buckets (sets of 4)						
75003737	19	250 ml Flat Bottom Bottle	4 x 250 ml	63 x 130				
75003738	20	150 ml Round Bottom Open-Top Tube	4 x 150 ml	56 x 124				
75003742	21	100 ml Round Bottom Open-Top Tube	4 x 100 ml	46 x 124				
75003685	22	50 ml Conical Tube	20 x 50 ml	30 x 121				
75003749	23	50 ml Round Bottom Tube	12 x 50 ml	35 x 121				
75003750	24	45 ml Flat/Round Tube	16 x 45 ml	30 x 121				
75003755	25	25 ml Universal Tube	16 x 25 ml	26 x 121				
75003756	26	25 ml DIN Round Bottom Tube	24 x 25 ml	26 x 121				
75003684	27	15 ml Conical Tube	48 x 15 ml	17 x 120				
75003758	28	14 ml Flanged Round Bottom Tube	36 x 14 ml	18 x 121				
75003759	29	15 ml Conical Urine Tube	36 x 15 ml	17 x 124				
75003767	30	10 ml Blood Collection or 15 ml DIN Tube	64 x 10/15 ml	17 x 118				
75003768	31	5/7 ml or 4.5/6 ml Blood Collection Tube	80 x 5/7 ml	14 x 118				
75003769	32	5/7 ml Round Bottom Tube	112 x 5/7 ml	13 x 119				
75003770	33	1.5/2 ml Conical Microtube	224 x 2 ml	11 x 50				
75003795 (set of 2) **75003617** (set of 4)	34	**Carriers for microplates and T-75 Horizontal Flasks, including plate trays and neoprene pad, 90° R_{max} 155 mm**	**4 x 4 Standard or 4 x 1 Deepwell**	**H_{max}: 60 mm**	**n/a**	**n/a**	**4700**	**3828**

[3] 230 V refrigerated centrifuge
[4] 120 V ventilated and refrigerated centrifuge

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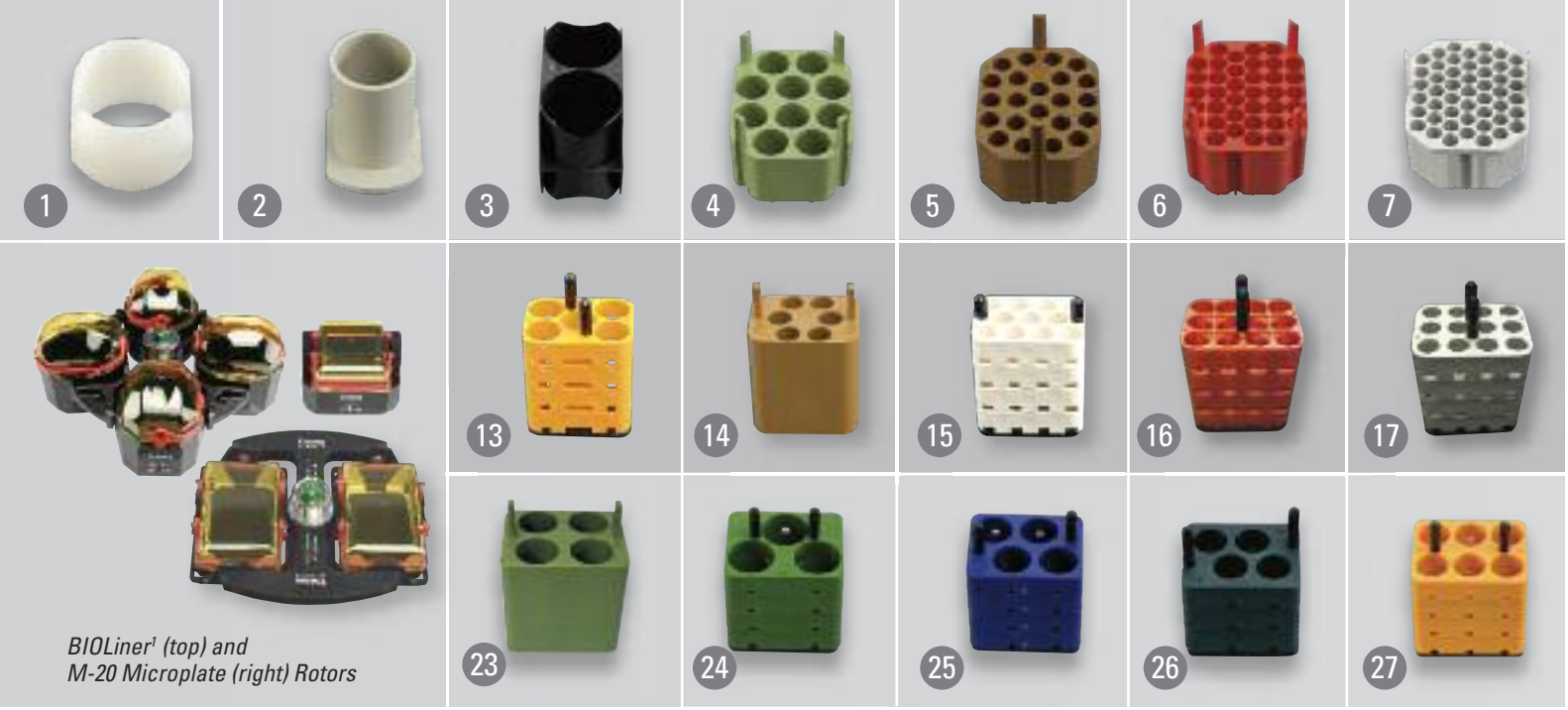

BIOLiner[1] (top) and M-20 Microplate (right) Rotors

Thermo Scientific Rotors and Adapters

Cat. No		Description	Rotor Capacity (Places x Volume)	Max Tube Dimensions (Ø x L, mm)	Heraeus Megafuge 16/16R Max Speed (rpm)	Heraeus Megafuge 16/16R Max RCF (xg)	Heraeus Megafuge 40/40R Max Speed (rpm)	Heraeus Megafuge 40/40R Max RCF (xg)
75003667		**BIOLiner High Capacity Rotor**						
75003668		**BIOLiner Buckets (set of 4), 90°, R_{max} 200 mm**	**4 x 750 ml**		**n/a**	**n/a**	**3500**	**2739**
75003669		**ClickSeal Biocontainment Lids for BIOLiner Buckets (set of 4)**						
75003688		Replacement O-rings for Lids						
		Adapters for BIOLiner Buckets (sets of 4)						
75003692	1	750 ml Flat Bottom Bottle with all round adapters listed for TX-750 round bucket	4 x 750 ml	98 x 124				
75003692		500 ml Corning Conical Bottle + Corning cushion no. 431124	4 x 500 ml	98 x 124				
75003691		250 ml Corning Conical Bottle[5]	4 x 250 ml	62 x 145				
75003675		250 ml Nalgene Oak Ridge Bottle	8 x 250 ml	62 x 130				
75003675		225 ml and 175 ml BD Falcon Conical Bottle + BD no. 352090	8 x 225 ml	62 x 130				
75003675	3	200 ml Nunc Conical Bottle + Nunc cushion no. 377585	8 x 175 ml	62 x 130				
75003674	4	50 ml Conical Tube	40 x 50 ml	30 x 120				
75003673	5	15 ml Conical Tube	88 x 15 ml	17.5 x 121				
75003697		9/10 ml Blood Collection Tube (Sarstedt)	100 x 9/10 ml	17 x 110				
75003672	6	10 ml Blood Collection Tube	148 x 10 ml	17 x 110				
75003671	7	5/7 ml Blood Collection Tube (Vacutainer)	196 x 5/7 ml	14 x 110				
75003709		4.5/6 ml Blood Collection Tube (Greiner)	164 x 4.5/6 ml	14 x 110				
75003796	(set of 2)	**Microplate Carriers for BIOLiner Rotor, R_{max} 179 mm**	**4 x 4 Standard or**	**H_{max}: 60 mm**				
75003670	(set of 4)		**4 x 1 Deepwell**		**n/a**	**n/a**	**3500**	**2451**
75003689		**Sealing Lids for BIOLiner Microplate Carriers (set of 4)**						
75003626		Replacement O-rings for Microplate Carrier Lids (set of 4)						
75003624		**M-20 Microplate Rotor, 90°, R_{max} 127 mm, includes 2 buckets and 2 adapters**	**2 x 3 Standard or 2 x 1 Deepwell**	**H_{max}: 65 mm**	**4000**	**2272**	**4000**	**2272**
75003625		Sealed Carriers, includes trays and lids (set of 2)		**H_{max}: 45 mm**				
75002011		Replacement Sealing Lids (set of 2)						
75002012		Replacement O-rings (set of 4 with grease)						

[1] Buckets and lids sold separately
[5] In open buckets only

Swinging Bucket Rotors

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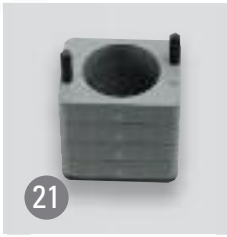
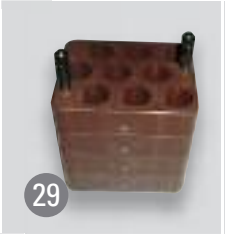
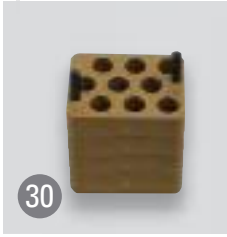


BIOShield 720 (top) and BIOShield 1000A (right) Swinging Bucket Rotors





Thermo Scientific Rotors and Adapters

Cat. No		Description	Rotor Capacity (Places x Volume)	Max Tube Dimensions (Ø x L, mm)	Heraeus Megafuge 16/16R Max Speed (rpm)	Heraeus Megafuge 16/16R Max RCF (xg)	Heraeus Megafuge 40/40R Max Speed (rpm)	Heraeus Megafuge 40/40R Max RCF (xg)
75003621		**BIOShield 720 High Speed Swinging Bucket Rotor, 90°, R_{max} 162 mm**	**4 x 180 ml**		**5300**	**5088**	**n/a**	**n/a**
		Adapters for BIOShield 720 Rotor (sets of 4)						
75003693		180 ml Polypropylene Screw Cap Bottle (75003800, pkg of 12)	4 x 180 ml	56 x 123				
75003813	8	150 ml Round Bottom Open-Top Tube	4 x 150 ml	50 x 122				
75003814	9	100 ml Round Bottom Open-Top Tube	4 x 100 ml	44 x 120				
75003677	10	50 ml Conical Tube	8 x 50 ml	34.5 x 116				
75003816	11	50 ml DIN Round Bottom Tube	8 x 50 ml	34 x 109				
75003818	12	25 ml Universal Tube	16 x 25 ml	22.5 x 105				
75003817	13	25 ml DIN Round Bottom Tube	20 x 25 ml	25 x 107				
75003678	14	15 ml Conical Tube	24 x 15 ml	17 x 120				
75003820	15	15 ml Sarstedt Tube	44 x 15 ml	17 x 103				
75003701	16	10 ml Blood Collection Tube	48 x 10 ml	17 x 105				
75003821	17	5/7ml Blood Collection Tube	48 x 5/7 ml	13 x 106				
75003822	18	5/7ml Round Bottom Open-Top Tube	80 x 5/7 ml	13 x 104				
75003823	19	1.5/2ml Conical Microtube	160 x 2 ml	11 x 45				
75003603		**BIOShield 1000A High Speed Swinging Bucket Rotor, 90°, R_{max} 178 mm**	**4 x 250 ml**		**n/a**	**n/a**	**5300**	**5590**
		Adapters for BIOShield 1000A Rotor (sets of 4)						
75003737	20	250 ml Nalgene Flat Bottom Bottle	4 x 250 ml	62.5 x 124				
75003738	21	150 ml Round Bottom Open-Top Tube	4 x 150 ml	56.5 x 119				
75003742	22	100 ml Round Bottom Open-Top Tube	4 x 100 ml	45.5 x 120				
75003643	23	50 ml Conical Tube	16 x 50 ml	29.5 x 117				
75003749	24	50 ml Round Bottom Tube	12 x 50 ml	35 x 113				
75003750	25	45 ml Flat/Round Tube	16 x 45 ml	30 x 113				
75003755	26	25 ml Universal Tube	16 x 25 ml	26 x 113				
75003756	27	25 ml DIN Round Bottom Tube	24 x 25 ml	25.5 x 113				
75003642	28	15 ml Conical Tube	36 x 15 ml	17 x 121				
75003758	29	14 ml Flanged Round Bottom Tube	36 x 14 ml	18 x 113				
75003759	30	15 ml Conical Urine Tube	36 x 15 ml	17 x 115				
75003767	31	10 ml Blood Collection or 15 ml DIN Tube	64 x 10/15 ml	17 x 109				
75003768	32	5/7 ml Blood Collection Tube	80 x 5/7 ml	14 x 109				
75003769	33	5/7 ml Round Bottom Tube	112 x 5/ 7 ml	13 x 110				
75003770	34	1.5/2 ml Conical Microtube	224 x 2 ml	11 x 50				

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Fixed Angle Rotors

HIGHConic II Fixed Angle Aluminum Rotor

Fiberlite F15-6x100y Fixed Angle Rotor

CLINIConic Fixed Angle Rotor

Thermo Scientific Rotors and Adapters

Description		Rotor Capacity (Places x Volume)	Max Tube Dimensions (Ø x L, mm)	Heraeus Megafuge 16/16R Max Speed (rpm)	Heraeus Megafuge 16/16R Max RCF (x g)	Heraeus Megafuge 40/40R Max Speed (rpm)	Heraeus Megafuge 40/40R Max RCF (x g)
75003698	**Fiberlite F15-6x100y Fixed Angle Rotor, 25°, R_{max} 98 mm**	**6 x 100 ml**	**38 x 105**	**13000**	**18516**	**13000**	**18516**
021-069031	O-ring Refresher Kit						
	Adapters for F15-6x100y Rotor (sold separately)						
No adapter needed	94 ml Nalgene Tube	6 x 94 ml	38 x 105				
75003103	50 ml Conical Tube	6 x 50 ml	30 x 121				
75003095	15 ml Conical Tube	6 x 15 ml	17 x 123				
75003102	50 ml Round Bottom Tube	6 x 50 ml	30 x 117				
75003094	38 ml Round Bottom Tube	6 x 38 ml	26 x 110				
76002906	16 ml Round Bottom Tube	6 x 16 ml	18 x 123				
75003093	12 ml Round Bottom Tube	12 x 12 ml	16 x 95				
75003092	6.5 ml Round Bottom Tube	12 x 6.5 ml	13 x 114				
75003091	3.5 ml Round Bottom Tube	24 x 3.5 ml	11 x 100				
76002905	1.5/2 ml Conical Microtube	24 x 2 ml	11 x 40				
75003620	**HIGHConic II Aluminum Fixed Angle Rotor, 45°, R_{max} 126 mm**	**6 x 94 ml**	**38 x 105**	**8500**	**10178**	**10350**	**15090**
75003058	Replacement Sealing O-rings (set of 2 with grease)						
	Adapters for HIGHConic II Rotor (sold separately)						
No adapter needed	94 ml Round Bottom Tube	6 x 94 ml	38 x 105				
75003103	50 ml Conical Tube	6 x 50 ml	29.5 x 117				
75003095	15 ml Conical Tube	6 x 15 ml	17 x 123				
75003102	50 ml Round Bottom Tube	6 x 50 ml	29.4 x 117				
75003094	38 ml Round Bottom Tube	6 x 38 ml	26 x 110				
76002906	16 ml Round Bottom Tube	6 x 16 ml	18 x 123				
75003093	12 ml Round Bottom Tube	12 x 12 ml	16 x 95				
75003092	6.5 ml Round Bottom Tube	12 x 6.5 ml	13.5 x 114				
75003091	3.5 ml Round Bottom Tube	24 x 3.5 ml	11 x 100				
76002905	1.5/2 ml Conical Microtube	24 x 2 ml	11 x 40				
75003623	**CLINIConic Fixed Angle Rotor, 37°, R_{max} 140 mm**	**30 x 15 ml**	**30 x 15 ml**	**5650**	**4997**	**n/a**	**n/a**
	Adapters for CLINIConic Rotor						
No adapter needed	15 ml Round/Conical Bottom Tube	30 x 15 ml	16.5 x 131				
75003702	10 ml Round Bottom Tube	30 x 10 ml	16.5 x 95				
11172596	7 ml Round Bottom or Blood Collection Tube (each)	30 x 7 ml	16.5 x 131				
11172595	5 ml Round Bottom or Blood Collection Tube (each)	30 x 5 ml	13 x 95				

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Fiberlite F21-48x2 Fixed Angle Rotor

Microliter 48x2 Sealed Aluminum Fixed Angle Rotor

Microliter 30x2 Sealed Aluminum Fixed Angle Rotor

8x50 ml Individually Sealed Fixed Angle Rotor

Thermo Scientific Rotors and Adapters

	Description	Rotor Capacity (Places x Volume)	Max Tube Dimensions (Ø x L, mm)	Heraeus Megafuge 16/16R Max Speed (rpm)	Heraeus Megafuge 16/16R Max RCF (x g)	Heraeus Megafuge 40/40R Max Speed (rpm)	Heraeus Megafuge 40/40R Max RCF (x g)
	8x50 ml Individually Sealed Fixed Angle Rotor,			**6700**	**7177**	**n/a**	**n/a**
75003694	**45°, R_{max} 143 mm**	**8 x 50 ml**		**6500[4]**	**6755[4]**	**n/a**	**n/a**
75003689	Replacement O-rings (set of 12)						
	Adapters for 8x50 ml Sealed Rotor						
No adapter needed	50 ml Conical Tube	8 x 50 ml	29.5 x 116				
	Fiberlite F21-48x2 Fixed Angle Rotor,						
75003664	**45°, R_{max} 97 mm**	**48 x 2 ml**	**11 x 50**	**n/a**	**n/a**	**15200**	**25055**
021-489021	O-ring Refresher Kit						
	Adapters for F21-48x2 Rotor (sets of 24)						
76003750	0.2 ml PCR Tube	48 x 0.25 ml	6 x 20				
76003758	0.5 ml Microtube	48 x 0.5 ml	8 x 44				
76003759	0.25 ml Microtube	48 x 0.25 ml	6 x 46				
	Microliter 30x2 Sealed Aluminum Fixed Angle Rotor,						
75003652	**45°, R_{max} 100 mm**	**30 x 2 ml**	**11 x 50**	**15200**	**25830**	**n/a**	**n/a**
	Adapters for Microliter 30x2 Rotor (sets of 24)						
76003750	0.2 ml PCR Tube	30 x 0.25 ml	6.5 x 20				
76003758	0.5 ml Microtube	30 x 0.5 ml	8 x 44				
76003759	0.25 ml Microtube	30 x 0.25 ml	6 x 46				
	Microliter 48x2 Sealed Aluminum Fixed						
75003602	**Angle Rotor, 45°, R_{max} 98 mm**	**48 x 2 ml**	**11 x 50**	**n/a**	**n/a**	**15200**	**25314**
	Adapters for Microliter 48x2 Rotor (sets of 24)						
76003750	0.2 ml PCR Tube	48 x 0.25 ml	6.5 x 20				
76003758	0.5 ml Microtube	48 x 0.5 ml	8 x 44				
76003759	0.25 ml Microtube	48 x 0.25 ml	6 x 46				

[4]120 V ventilated and refrigerated centrifuge

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Thermo Scientific
Heraeus Megafuge Centrifuge Series

Specifications	Heraeus Megafuge 16/16R	Heraeus Megafuge 40/40R
Swinging Bucket Rotors		
Max Capacity	4 x 400 ml (with TX-400 rotor)	4 x 750 ml (with TX-750 and BIOLiner rotors)
Max Speed	5500 rpm (with TX-200 rotor)	5300 rpm (with BIOShield 1000A rotor)
Max RCF	5580 x g (with TX-200 rotor)	5590 x g (with BIOShield 1000A rotor)
Fixed Angle Rotors		
Max Capacity	6 x 100 ml (with F15-6x100 rotor)	6 x 100 ml (with F15-6x100 rotor)
Max Speed	15200 rpm (with 30x2 ml rotor)	15200 rpm (with 48x2 ml rotor)
Max RCF	25830 x g (with 30x2 ml rotor)	25314 x g (with 48x2 ml rotor)
Control System	Microprocessor	
Drive System	Direct, brushless induction low profile motor	
Rotor Locking System	Auto-Lock III	
Imbalance Detection System	SMARTSpin	
Programs	6, direct access	
Temperature Set Range*	-10 °C to +40 °C	
Pre-Cooling Function*	Yes, with direct button	
Refrigeration System*	CFC free	
Pulse (Short) Run	Yes	
Acceleration/ Deceleration Rates	9/ 10	
Centrifugation Chamber	Stainless Steel	
Max Timer Range	9h, 99min + continuous	
Sound Level (dBA), with swinging bucket rotor at top speed	< 61/<55* dB (TX-400)	< 61/< 57* (TX-750)
Other Features	Certified ClickSeal biocontainment system, language selection, motorized lid latch	
Max Power Consumption (W) 120V	850/ 1200*	1400
230V	1010/ 1400*	1700/1950*
Max Heat Output (BTU/h) 120V	2900/ 4096*	4776
230V	3447/ 4776*	5800/ 6653*
Dimensions		
Height (lid open)	87 cm/ 34.3 in	90 cm/ 35.4 in
Height (lid closed)	36 cm/ 14.2 in	36 cm/ 14.2 in
Width	44 cm/ 17.3 in 62.3 cm*/ 24.5 in*	56.5 cm/ 22.2 in 74.5 cm*/ 29.3 in*
Depth	60.5 cm/ 23.8 in	67 cm/ 26.4 in
Weight	57.5 kg/ 126.8 lb 91.5 kg*/ 201.7 lb*	86 kg/ 189.6 lb 116 kg*/ 255.7 lb*
Technical Standards	IEC 61010-1, IEC 61010-202, IEC 61010-2-101 230 V only: EN 292, EN 61326, EN 55011B	
Certifications	UL listed / CSA certified / CE marked / IVD compliant / Certified Biosafety, RoHS compliant, WEE compliant	
Ordering Information	**Heraeus Megafuge 16/16R**	**Heraeus Megafuge 40/40R**
Heraeus Megafuge, ventilated, 230 V, 50/60 Hz	75004230	75004503
Heraeus Megafuge, ventilated, 120 V, 60 Hz	75004231	75004504
Heraeus Megafuge, refrigerated, 230 V, 50/60 Hz	75004270	75004518
Heraeus Megafuge, refrigerated, 120 V, 60 Hz	75004271	75004519

**Refrigerated models*

The quality of the procedures used to design, manufacture, sell and service the Heraeus Megafuge 16 and Megafuge 40 centrifuge series is certified and maintained in accordance to the **ISO 13485** international standard. Our effort to continuously improve our formalized business processes is certified and regularly audited in conformance with **ISO 9000** family of Quality Standards.

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