

REFRIGERATED BLOOD PROCESSING CENTRIFUGE HERAEUS® CRYOFUGE® 5500i

Flexible systems for blood banking and clinical applications



THE TRADITION CONTI

Over the years, Kendro, the market leader in blood separation technology, has developed vast experience in the design and manufacture of centrifuges for blood processing.

Today, that tradition continues with the Heraeus® Cryofuge® 5500i - the next generation centrifuge offering optimal capacity for small to medium-size blood processing centers that perfectly complements other instruments in the world-renowned Cryofuge blood banking range.

With the Cryofuge 5500i, spin up to 8 blood bags, in a wide range of bag configurations - including 500 ml quints with in-line filters - reliably and reproducibly. In addition, realize the benefit of greater throughput from higher *g*-forces and capacities for all popular types of blood collection and clinical tubes.

Minimize sample handling steps by spinning clinical analyzer racks already pre-loaded with tubes.

In keeping with the latest trends in clinical testing, the Cryofuge 5500i maximizes microplate processing with the added benefit of biocontainment.

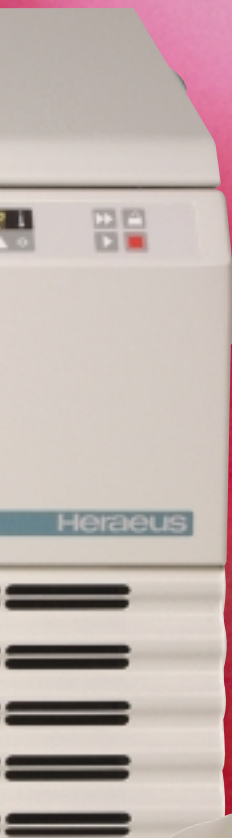
The Cryofuge 5500i builds on the great Kendro tradition for quality, reliability and ease of use in blood processing. It adds another dimension to an already impressive range of centrifuges from the worldwide leader in blood processing centrifugation.

CRYOFUGE 5500i REFRIGERATED FLOOR MODEL CENTRIFUGE

- Optimal 4 or 8 blood bag capacity for component processing including quints
- Utilize existing Cryofuge 6000i accessories
- New Diagnostik™ rotor spins clinical analyzer racks pre-loaded with tubes
- Higher *g*'s and capacities for all popular blood/clinical tubes than leading competitors
- Superior 32 standard microplate capacity
- HIGHplate® rotor spins microplates, or filter plates to 85 mm in height, at 5,890 x *g*
- Optimum run stability with SMARTspin™ Imbalance Detection System
- Easy-to-clean soft-touch keypad
- Reduced maintenance with brushless induction drive



NUES...



LH-4000W rotor with
double blood bag
buckets

Maximum flexibility

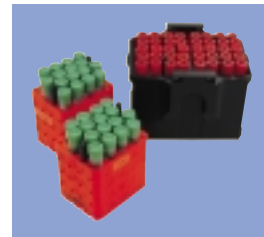
The versatile floor model Cryofuge® 5500i - from the world leader in blood separation technology - has been developed to meet the needs of users in a wide range of environments. In hospital blood banks and laboratories, in satellite blood processing centers and in clinical reference labs, the Cryofuge 5500i provides exceptional processing power for a host of applications.

A wide range of rotors - including windshielded swinging bucket, clinical analyzer rack and windshielded microplate varieties - offers maximum flexibility for blood component processing and clinical testing needs. Existing Cryofuge 6000i operators can even use many of their accessories interchangeably.

Spin more tubes, more quickly, with DoubleSpin™ buckets

Designed to spin larger numbers of tubes at higher RCFs, the Cryofuge 5500i delivers the sample processing throughput that blood and clinical reference labs demand.

Its powerful induction drive and its swinging bucket rotor - which accommodates DoubleSpin buckets - combine to provide higher 'g's and capacities for every type of sample tube. The result: shorter processing times for more samples.



With the Cryofuge 5500i, you will realize processing efficiencies - for clinical tubes, blood collection tubes, microplates and more - that are significantly better than those of competitive centrifuges.

High capacity for 5 / 7 ml blood collection tubes

	Tubes per run	Tube processed per hour	
Competitive general purpose centrifuge A	76	456	
Competitive general purpose centrifuge B	120	720	
Cryofuge 5500i using DoubleSpin buckets	160	960	

For a centrifugation run, including braking time, of approx. 10 min.

... FOR SAFETY, RELIABILITY AND EA

Safe operation for you and your sample

The Cryofuge® 5500i meets stringent international safety standards. It offers the widest selection of independently tested biocontainment rotors that comply with rigorous international guidelines for aerosol containment of bacteria and viruses.

The SMARTspin™ Imbalance Detection System provides optimum run stability for all rotors at all speeds, and allows sample tubes to be balanced by eye alone. The SMARTspin system will automatically brake the centrifuge if an excessive imbalance is detected, for example, due to tube leakage. Reliable imbalance detection means that even large swinging-bucket rotors can operate safely with a 30 gram imbalance.

Automatic Rotor Recognition offers convenient operation as well as reliable protection against incorrect parameter settings, and ensures reproducible run conditions.

Easy instrument set-up and operation includes:

- 9 program memory for standard runs
- 9 acceleration and deceleration profiles
- RPM to RCF conversion
- 'Pretemp' function for fast pre-cooling
- Quick Run Mode

Component processing made easy

The Cryofuge 5500i offers convenient operation at your fingertips. Unlike other models, the EASYcontrol™ II Soft-Touch Keypad is located at the front of the instrument, eliminating awkward reaching. It incorporates large LED display panels that can be cleaned easily and read even at a distance.



USE OF USE IN BLOOD PROCESSING



Effortless access

The Soft-Touch Lid Lock ensures safe operation with an easy-open/close mechanism. The lid can be opened and closed effortlessly with just one hand.

Utilize your existing adapter inventory

As part of the Cryofuge® family, the Cryofuge® 5500i accepts most popular liners, adapters and accessories from the Cryofuge® 6000i:

- All accessories available for the double blood bag bucket (order no. 75007617)
- Centri-Lab® Type C round adapters
- Centri-Lab Type A rectangular adapters with the help of transition adapters that hold two Type A units per DoubleSpin™ bucket



Round and double blood bag buckets and accessories

VERSATILE ROTORS FOR BLOOD BA

With its wide range of rotors, the Cryofuge® 5500i can handle just about any processing requirement - now and for years to come.

LH-4000W windshielded swinging bucket rotor

Designed for the stringent demands of high speed low-temperature protocols, the LH-4000W maintains temperature sensitive samples as required.

Spin 8 quint blood bags in the LH-4000W rotor's double blood bag buckets, or 4 blood bags (or 4 liters of sample) in biocontained round buckets. DoubleSpin™ buckets accept **two** Centri-Lab® Type D adapters each, in any combination, to spin as many as 448 tubes per run.

DoubleSpin buckets - outstanding capacity

Sample	Capacity per Run
5/7 ml blood tubes	160
10/15 ml blood tubes	128
15 ml tissue culture tubes	96
50 ml tissue culture tubes	32
Standard microplates	32
Deepwell plates	8

The LH-4000W rotor offers outstanding capacity and flexibility for blood component production, fractionation, serum extraction, blood collection tube processing, microplate processing, and more!



LH-4000W rotor loaded with tubes and microplates

LH-4000 swinging bucket rotor

Available in a non-windshielded version, the LH-4000 rotor accepts the same round and DoubleSpin buckets as the LH-4000W windshielded rotor.



LH-4000 rotor with DoubleSpin buckets

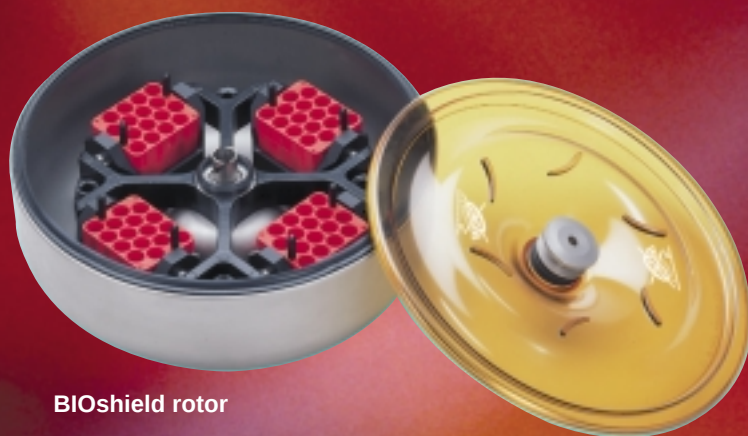
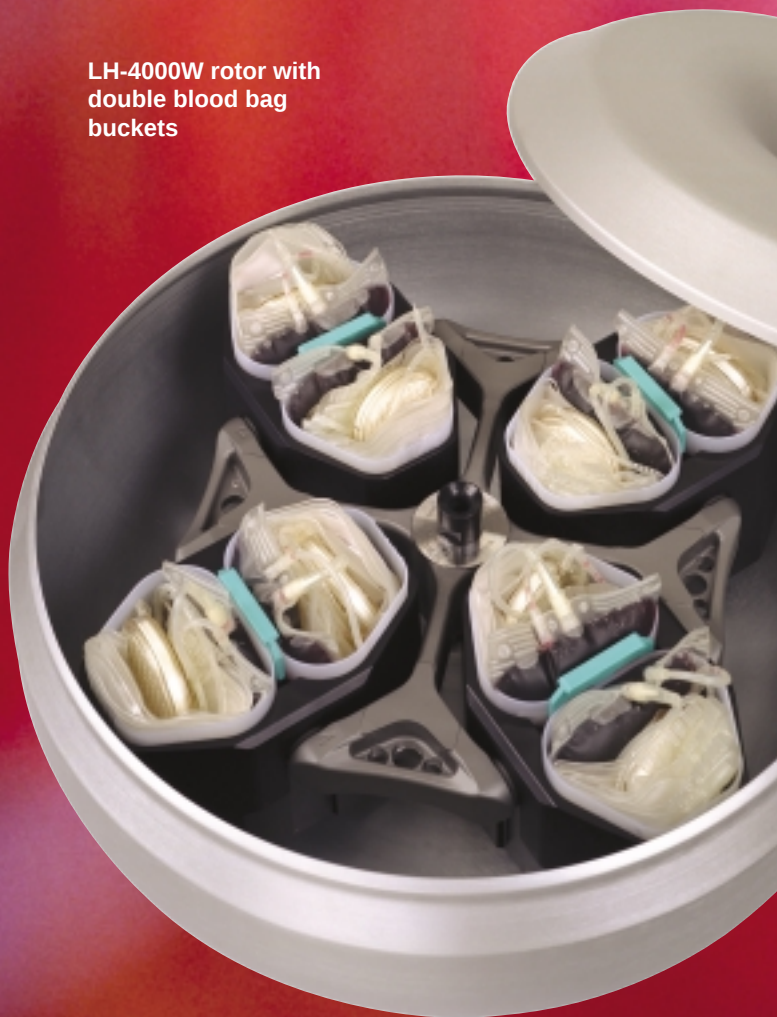
Like the LH-4000W rotor, the LH-4000 is low-maintenance. Its trunnions do not require greasing.

BIOshield® windshielded swinging bucket rotor

The BIOshield rotor offers the highest speeds in the industry, processing more tubes per hour than any competitive rotor.

- 4 x 250 ml rectangular buckets
- Biocontainment certified
- Fully autoclavable
- Safe with one twist of the transparent lid

LH-4000W rotor with double blood bag buckets

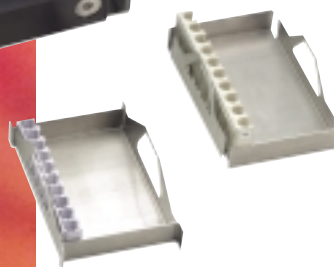


BIOshield rotor

ANKING AND CLINICAL WORK



Diagnostik rotor



NEW Diagnostik™ rack rotor

The Diagnostik rack rotor spins many popular clinical analyzer racks.

- Minimize sample handling steps: spin blood collection tubes already loaded in analyzer racks
- Accommodates Olympus, Hitachi, Dade-Behring and Sysmex racks

HIGHplate® rotor for faster microplate processing

Use the HIGHplate rotor to spin RNA/DNA filter plates at 5,890 x g with the added benefit of independently certified biocontainment.

- Accommodates all brands of microplates and filter plates
- Spins 10 standard microplates
- Accepts filter plates to 85 mm in height
- Safe with one twist of the transparent lid

Highconic® fixed-angle rotor

Process tissue culture tubes, fast, at up to 10,020 x g.

- Optimum sedimentation with unique tube angle
- Biocontainment certified
- Autoclavable



Highconic rotor

LAC-250 fixed-angle composite rotor

The lightweight, system-integrated LAC-250 composite rotor quickly processes 1.5 liters of sample.

- 6 x 250 ml capacity
- 15,320 x g
- Corrosion-resistant composite material
- Ideal for bacteria and other general pelleting needs



LAC-250 rotor



HIGHplate rotor

ROTORS AND ACCESSORIES

Specifications, buckets and microplate adapter for LH-4000W windshielded swinging bucket rotor



Rotor body order no. 75006476

Bucket Type		Double Blood Bag Bucket	Round Bucket	DoubleSpin™ Bucket	Microplate Adapter for DoubleSpin Bucket
Order no.		75006436	75006477	75006478	75006486
Biocontainment lids* (pair)	Order no.	n/a	75006421	75006479	n/a
Max. bucket/insert capacity		2 x 500 ml bags	1 x 500 ml bag/1 L	2 x 250 ml	1 x 8 standard microplates
Max. rotor capacity		8 x 500 ml bags	4 x 500 ml bags/4 L	4 x 500 ml	4 x 8 standard microplates
Max plate height	mm	n/a	n/a	n/a	110
Max. speed	rpm	4,400	4,400	4,400	4,400
Max. RCF	x g	5,480	5,350	4,650	4,650
Min. temp at max. speed	°C	1	1	1	1
Max. radius	mm	253	247	215	215
Adapters (Centri-Lab®)	type	n/a	C	D	n/a

Specifications, buckets and microplate adapter for LH-4000 swinging bucket rotor



Rotor body order no. 75006475

Bucket/Insert Type		Round Bucket	DoubleSpin Bucket	Microplate Adapter for DoubleSpin Bucket
Order no.		75006477	75006478	75006486
Biocontainment lids* (pair)	Order no.	75006421	75006479	n/a
Max. bucket/insert capacity	ml	1 x 1,000	2 x 250	1 x 8 standard microplates
Max. rotor capacity	ml	4 x 1,000	4 x 500	4 x 8 standard microplates
Max plate height	mm	n/a	n/a	110
Max. speed	rpm	4,400	4,400	4,400
Max. RCF	x g	5,350	4,650	4,650
Min. temp at max. speed	°C	10	10	10
Max. radius	mm	247	215	215
Adapters (Centri-Lab)	type	C	D	n/a

Specifications for BIOshield® and HIGHplate® windshielded rotors



Rotor		BIOshield	HIGHplate
Order no.		75006435	75006444
Biocontainment rotor cover		included	included
Max. rotor capacity	ml	4 x 250	2 x 5 standard microplates
Max. plate height	mm	n/a	85
Max. speed	rpm	5,850	5,650
Max. RCF	x g	6,960	5,890
Min. temp at max. speed	°C	1	0
Max. radius	mm	182	165
Adapters (Centri-Lab)	type	D	n/a
Special features		Biocontainment approved*, autoclavable	Biocontainment approved*

* Independently verified for biocontainment.

Adapters for LH-4000 / LH-4000W swinging bucket rotors with round buckets (Centri-Lab® Type C)



Volume (ml)	1.5/2	7	5/7	15	10/15	15	14/15	25	45/50	50	50	100	150/180	175/200 /225	250	250	500 ¹	500	500	500	1000
Tubes per adapter	48	35	19	19	17	12	12	7	7	4	5	2	1	1	1	1	1	1	1	1	
Tubes per rotor	192	140	76	76	68	48	48	28	28	16	20	8	4	4	4	4	4	4	4	4	
Tube type ²	ML	DIN	BL	DIN	BL	CON	FL	DIN	PYR	DIN	CON	DIN	DIN/Misc.	CON/Misc.	Misc.	CON	Misc.	CON	DIN	Baxter	
Max. length of tube (mm) ³	50	177	177	177	177	177	177	177	177	177	177	177	132	177	190	190	190	190	–	–	
Max. tube Ø (mm)	11	12.8	13.5	17	17	16.5	18.3	25	29.5	34.5	29.5	45	56.5	62	59	61.5	70	96	–	100	
Max. cap Ø (mm)	13	14	18.5	18.5	20	23.5	21.5	31	31	39	35.5	47.5	–	75	–	–	–	–	–	n/a	
Adapter color ⁴	BL	Y	LGY	R	W	OB	BR	OR	UB	G	LG	B	BL	W	W	W	W	W	Custom	n/a	
Adapter order no. (7500xxxx)	8132	8133	8134	8135	8136	8137	6494	8138	6493	8140	6495	8142	6498	8144 ¹	6649	8147	8145	6438	7722	7723	
Adapter shape ⁵	F/C	F/R	F/R	F/R	F/R	F/C	F/R	F/R	F/R	F/R	F/C	F/R	F/R	F	F/R	F/C	F/R	F/C	F/R	F	

¹ If conical tubes are used, an additional conical adapter pad should be purchased from the tube manufacturer.

² ML = microliter tube; DIN = borosilicate glass with DIN dimensions; BL = blood collection tube; FL = flanged tube; CON = conical tissue culture tube; PYR = round bottom Pyrex glass.

³ Max. tube length when biocontainment lid is used.

⁴ BL = black; Y = yellow; LGY = light gray; BR = brown; OB = olive brown; W = white; R = red; OR = orange; UB = ultramarine blue; LG = light green; G = green; B = blue; GR = gray.

⁵ F = flat; C = conical; R = round.

Adapters for LH-4000 / LH-4000W swinging bucket rotors with DoubleSpin™ buckets, and BIOshield® rotor (Centri-Lab Type D)



Volume (ml)	1.5/2	7	5/7	10/15	15	15	14/15	25	25/50	45/50	50	50	100	150/180	175/250	Type A	Type D
Tubes per adapter	56	28	20	16	24	9	9	6	4	4	3	4	1	1	1	–	–
Tubes per LH-4000/ LH-4000W rotor	448	224	160	128	96	72	72	48	32	32	24	32	8	8	8	8	4
Max. length of tube in LH-4000 and LH-4000W rotors (mm) ²	50	120-151	118-150	120-149	121-147	122-150	122-149	127-149	132-149	125-149	127-149	129-140	138	147	140-145	–	–
Tubes per BIOshield rotor	224	112	80	64	n/a	36	36	24	16	16	12	16	4	4	4	n/a	n/a
Max. length of tube in BIOshield rotor (mm) ³	50	117	117	117	117	120	117	117	117	117	117	120	120	125	125	–	–
Tube type ⁴	ML	DIN	BL	DIN/BL	CON	CON	FL	DIN	UNI	PYR	DIN	CON	DIN	DIN/Btl	CON/Misc.	Adapter	Adapter
Max. tube Ø (mm)	11	12.8	14	17	16.5	16.5	18.3	25	25.5	29.5	34.5	29.5	45	56.6	62	–	–
Max. cap Ø (mm)	13	14	17.5	19	23	24	25	28	32	35	38	35.5	66	66	63	–	–
Adapter color ⁵	BL	Y	LGY	R	W	OB	BR	OR	BG	UB	G	LG	B	GB	BL	BL	Stainless
Adapter order no. (7500xxxx)	6452	6453	6454	6455	6468	6456	6492	6457	6459	6491	6460	6461	6462	6463	6465 ¹	76006467	6499
Adapter shape ⁶	F/C	F/R	F/R	F/R	F/C	F/C	F/R	F/R	F/R	F/R	F/R	F/C	F/R	F/R	F	n/a	n/a

¹ If conical tubes are used, an additional conical adapter pad should be purchased from the tube manufacturer.

² Max. length depends on the position in the adapter. In the corners of the buckets, only the short tubes can be used.

³ Max. tube length when biocontainment lid is used.

⁴ ML = microliter tube; DIN = borosilicate glass with DIN dimensions; BL = blood collection tube; FL = flanged tube; CON = conical tissue culture tube; PYR = round bottom Pyrex glass; UNI = universal container; Btl = bottle.

⁵ BL = black; Y = yellow; LGY = light gray; BR = brown; OB = olive brown; W = white; R = red; OR = orange; UB = ultramarine blue; LG = light green; G = green; B = blue; GR = gray; BG = blue-green; GB = gray-blue; stainless = made from stainless steel.

⁶ F = flat; C = conical; R = round.

Note: Adapter type D, order no. 76006467 is required to use Centri-Lab Adapter type A (from Megafuge® line) in rectangular bucket 75006478 or BIOshield rotor (75006435).

Equipment for blood bag centrifugation in LH-4000W blood bag buckets (order no. 75006436)



Adapter description	Order no.
Adapter for 500 ml quint, quad, triple with in-line filters and filter holder "XXL"	76007677
Adapter for 450/500 ml quad, triple "XL"	76007657
Adapter for 450 ml triple "L"	76007647
Adapter for 450 ml double "M"	76007667
1 adapter 76007657, plus 2 taring pieces, each 260 g, and 13 taring plates	75007668
Taring weight for adapter 76007647: 4 of 6 g and 15 g	75007645
1 set of 2 taring plates (each 35 g), and 2 taring plates (each 65 g, black)	75005759

Accessories for blood bag centrifugation in LH-4000 / LH-4000W rotors with round buckets



Adapter description	Order no.
Adapter for 400 - 500 ml quad blood bags "L/M"	75006946
Adapter for small volume special blood applications	75006485
Taring plates: rubber, each 2 x 35 g and 65 g	75005759
Taring weights for adapter 75006485: 1 set, comprising 4 weights (6 g and 15 g)	75007645

Cyto-accessories for LH-4000 / LH-4000W swinging bucket rotors with DoubleSpin™ buckets, and BIOshield® rotor with rectangular buckets

Type		Order no.
100 micro tubes	0.75 ml with 0.5 ml opening in bottom	75001153
100 micro tubes	1.5 ml with 0.5 ml opening in bottom	75001152
Lid	For working without micro tubes	76003422
Cyto-container	With 2 cylindrical bores for approx. 1.5 ml sample volumes	75003415
Cyto-container	With 2 conical bores for approx. 3.0 ml sample volumes	75003416
100 filter cards	For cyto-container 75003415	76003424
100 filter cards	For cyto-container 75003416	76003425
Clip carrier	For holding a cyto-container and slide	75003414
Support insert	For using cyto-accessories with bucket 75006478 or BIOshield rotor	76006466

Note: LH-4000 / LH-4000W rotor accepts 2 cyto-systems per bucket.



Specifications for Diagnostik™ rotor



Order no.		75006480
Max. speed	rpm	3,500
Max. RCF	x g	2,550
Min. temp at max. speed	°C	< 0
Max. radius	mm	186

Fixed-angle rotor specifications



Fixed-angle rotor		LAC-250	Highconic®
Order no.		75006483	75003046
Angle	°	23	45
Max. speed	rpm	10,000	8,500
Max. RCF	x g	15,320	10,020
Max. capacity	ml	6 x 250	6 x 50
Min. temp at max. speed	°C	1	< 0
Max./min. radius	mm	137/95	124/60
Special features		Lightweight, composite material	Biocontainment approved, autoclavable

Adapters for LAC-250 fixed-angle rotor

Tube/bottle	Tube dimensions (Ø x L)	Tubes per rotor	Color	Order no.
250 ml Dry-Spin and Oak Ridge bottles (no adapters needed)	61 x 153	6	—	—
250 ml PA Oak Ridge bottle	60 x 120	6	—	12002
1 x 150 ml/125 ml Corex bottle	53 x 132	6	yellow	00372
1 x 150 ml thick-walled tube	45 x 132	6	white	00458
1 x 100 ml Pyrex bottle	44 x 137	6	yellow	00371
1 x 50/35 ml conical tube	30 x 115	6	white	03072
3 x 30 ml Corex bottle	24 x 105	18	white	00449
5 x 14 ml Pyrex tube	18 x 120	30	gray	00456
7 x 12 ml tube	16 x 100	42	purple	00389
12 x 5/4 ml tube	12 x 75	72	red	00388
5 x 3 ml Pyrex tube	10 x 75	30	green	00370 + 00456 ¹

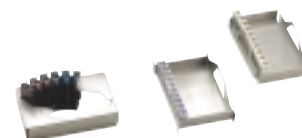
¹ Adapters must be used together.

Adapters for Highconic fixed-angle rotor

Tube volume	Tubes per rotor	Ø (mm)	L (mm)	Order no.
4 x 1.5 ml	24	11	58	76002905
4 x 3.5 ml	24	11	103	75003091
2 x 6.5 ml	12	13	115	75003092
2 x 12 ml	12	16	96	75003093
1 x 16 ml	6	18	124	76002906
1 x 38 ml	6	25	112	75003094
1 x 50 ml	6	29	118	75003014
1 x 15 ml conical tissue culture	6	16.5	120	75003095
1 x 50 ml conical tissue culture	6	30	117	75003096 ¹
Replacement sealing rings, inc. lubricant	n/a	n/a	n/a	75003423

¹ Included with rotor.

Trays for Diagnostik™ rotor racks



	No. of tubes per rack	Racks per rotor	Dimensions (L x W)	Order no.
Hitachi	5	2 x 10	118 mm x 20 mm	75006416
Olympus	10	2 x 6	117 mm x 20 mm	75006417
Sysmex	10	2 x 6	200 mm x 25 mm	75006418
Dade-Behring	10	2 x 2	—	75006419

TECHNICAL DATA / ORDERING INFORMATION

TECHNICAL DATA CRYOFUGE® 5500i

Speed range	rpm	300 – 10,000, adjustable in 10 rpm increments
Max. RCF	x g	15,320
Max. capacity		8 x 500 ml blood bags or 4 x 1,000 ml or 4 x 8 standard microplates
Drive		brushless induction drive
Accel./decel. profiles		9/9
Program memory		9 + 1 pretemp program
Run time		0 – 99 min, plus hold
Temperature range	°C	-9 to +40, CFC-free refrigerant
Temperature accuracy		± 2 °C
Control		microprocessor controlled via EASYcontrol™ II
Functions		RCF-preselection, Quick-run, automatic rotor recognition, imbalance detection and Soft-Touch lid-lock
Imbalance		electronic, speed and rotor dependent
Dimensions (H x W x D)	mm	960 x 680 x 720
Weight	kg	286
Plug type		Nema 5-15R
Test standards		Designed and tested in accordance with EN 61 010-1, EN 61 010-2-020, EN 50 081-1, EN 50 082-1

ORDERING INFORMATION

Model	Description	Order no.
Cryofuge 5500i	Refrigerated, 230 V, 50 Hz, 12.9 A	75004471

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