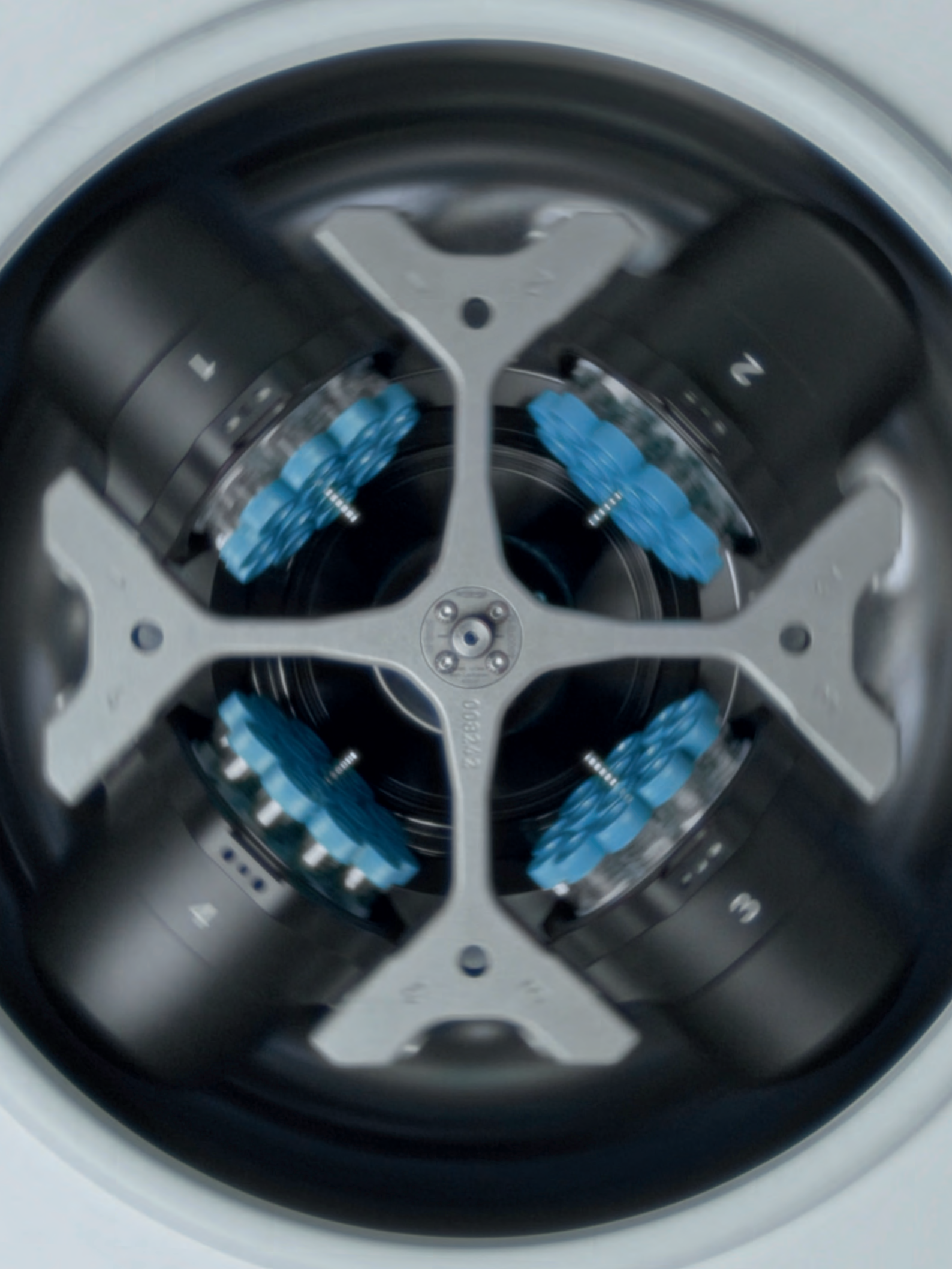




GENERAL CATALOG

Centrifuges
Incubators





Dear partners and customers,

With this edition of our comprehensive catalog, we continue our tradition of providing you with innovative and reliable solutions for your laboratory needs. Over the past years, we have made significant progress together and now look forward to the future of laboratory efficiency and automation.

A highlight of our current portfolio is the introduction of the MIKRO 2.0 microliter centrifuge. This model builds on the proven performance of the MIKRO series but offers maximum efficiency in a compact design with our new control unit and enhanced features. Another remarkable addition is the SBS 300 R Robotic centrifuge, now available in a refrigerated version. Designed specifically for microtiter plates in high-throughput screening, this front-loading centrifuge seamlessly integrates into automated systems. Thanks to our collaboration with Julabo, precise temperature control is ensured through a high-quality refrigerated circulator, safeguarding sample integrity even for temperature-sensitive applications.

You will find these and other innovations on the following pages. Always included: our 24-month performance warranty and 10-year spare parts guarantee.

Another important milestone in our company's history is the acquisition of Philipp Kirsch GmbH, based in Willstätt-Sand. With this strategic expansion, we are broadening our portfolio to include high-quality cooling and deep-freezing solutions designed specifically for medical and pharmaceutical applications. The proven quality and expertise of Philipp Kirsch GmbH will further strengthen our offerings, providing our customers with an even more comprehensive selection of laboratory and medical technology solutions.

We hope you enjoy browsing our new catalog and wish you success in your work with Hettich products.

Yours sincerely,

Kristina Apollinaris Eberle & Klaus-Günter Eberle
Owner Family



Good ideas for even more efficiency: new products from Hettich in 2025.

More compact, intuitive, and faster – our new microliter centrifuge MIKRO 2.0 | 2.0 R

The new MIKRO 2.0 and its refrigerated variant, the MIKRO 2.0 R, not only feature a completely redesigned look but also bring numerous technical innovations.

The MIKRO 2.0 combines performance and user-friendliness in a compact design. Its combination of rotary-push control and a high-resolution LCD display enables quick and easy operation. New features such as the rapid rotor exchange system, quick-lock lid, and NFC technology streamline workflows.

With a maximum RCF of 25,212 and a temperature range of -20°C to +40°C in the refrigerated version, the MIKRO 2.0 and MIKRO 2.0 R deliver top performance with maximum flexibility. Learn more on [page 38](#).



Find out more
about the product.



Refrigeration and freezing solutions from Philipp Kirsch GmbH

With the acquisition of Philipp Kirsch GmbH from Willstätt, Hettich is expanding its portfolio to include high-quality cooling and deep-freezing solutions for the medical and pharmaceutical sectors.

For decades, Philipp Kirsch GmbH has been synonymous with innovative and reliable cooling technology, ensuring the safe storage of sensitive samples, vaccines, and medications. By integrating these proven products, we now offer you an even more comprehensive range of laboratory solutions with the same high standards you have come to expect. Quality standard – Made in Germany. More information: www.kirsch-medical.com



SBS 300 R Robotic – automated centrifugation of microtiter plates

Hettich is also expanding its product range in automation: Starting in mid-2025, the SBS 300 R Robotic will be available as a refrigerated variant. This innovative addition is specifically designed for demanding laboratory applications and stands out with its modular design, combining flexibility and efficiency.

The highlight of the new SBS 300 R Robotic is its integrated cooling circuit, which is enhanced by the external connection of a recirculating chiller. For this, Hettich is collaborating with the renowned temperature control specialist Julabo. Julabo's powerful MAGIO MX-2500F ensures efficient cooling, guaranteeing reliable centrifuge operation even under challenging conditions.

Find out more about the product.



Contact

— Responsibility for years

If you need help choosing the right equipment, sales support or a general inquiry, please contact our global customer service team. In addition, our global network of Hettich subsidiaries and authorized dealers will take care of your questions and support requests quickly and competently. Select your direct contact person by area or search our contact directory on www.hettichlab.com/contact



— Your contact options by area

Europe, UK, Balkans

✉ sales1@hettichlab.com

Russia, Ukraine, Belarus, Poland

✉ sales1@hettichlab.com

Africa

✉ sales2@hettichlab.com

Middle East

✉ sales2@hettichlab.com

India, Pakistan

✉ sales3@hettichlab.com

Asia-Pacific

✉ sales3@hettichlab.com

North- / South America

✉ sales3@hettichlab.com



Looking for the right contact? Find your local representative on our contact page: www.hettichlab.com/contact

Service

— 5 good reasons to choose Hettich Service

- 1** Short response time thanks to our 48-hour response promise.*
- 2** Our technical specialists are always available for one-to-one communication. No more waiting on a hotline or in a call-center.
- 3** Localized consulting and qualification.
- 4** Preventive maintenance contracts available.*
- 5** Parts and service are available for 10 years, even after a specific model has been discontinued.

Our global network of Hettich subsidiaries and authorized service providers ensure that customer challenges are addressed quickly and efficiently with real-time solutions.

You can reach us through the following email address:



service@hettichlab.com

In addition to our German headquarters we have branch offices in throughout Europe as well as the USA (North America) and Singapore (ASEAN) to offer fast, local support. You can find an overview of an authorized service provider for your country on our website: www.hettichlab.com/contact

* Not available in all countries and only during workdays.



No matter where you are in the world, our dedicated support team is readily available to assist you. Visit our support center online for more information: www.hettichlab.com/support-center



							
MANUAL CENTRIFUGE	EBA 200 200 S	EBA 200 (MDR)	EBA 270	EBA 280 280 S	HAEMATOKRIT 200		
							
MIKRO 185	NEW MIKRO 2.0	NEW MIKRO 2.0 R	MIKRO 200	MIKRO 200 R	MIKRO 220	MIKRO 220 R	
							
ROTOFIX 32 A	ROTOFIX 32 A (MDR)	UNIVERSAL 320	UNIVERSAL 320 R	ROTINA 380	ROTINA 380 R	ROTINA 420	ROTINA 420 R
							
ROTANTA 460 RC	ROTANTA 460 RF	ROTIXA 500 RS	ROTO SILENTA 630 RS				
							
ROTOLAVIT II							
							
ZENTRIMIX 380 R							
							
MIKRO 220 ROBOTIC	NEW SBS 300 300 R ROBOTIC	ROTINA 380 380 RC ROBOTIC	ROTANTA 460 ROBOTIC				
							
CYTO SYSTEMS	ROLLING CABINET	BLOOD BANK ACCESSORIES					
							
HETTCUBE 60	HETTCUBE 120	HETTCUBE 200	HETTCUBE 200 R	HETTCUBE 400	HETTCUBE 400 R	HETTCUBE 600	HETTCUBE 600 R
							
PLANT GROWTH CABINETS / STABILITY TEST CABINETS			REFRIGERATORS / FREEZERS				

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ROTANTA 460 R



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DUAL CENTRIFUGE

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AUTOMATED CENTRIFUGES

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EQUIPMENT

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ADDITIONAL PRODUCTS

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CONTROL PANELS | CAPACITIES | FEATURES | AVAILABLE TUBES
COOLANT | CERTIFICATES / REGISTRATIONS | CATALOG EXPLANATION

SMALL CENTRIFUGES

Benchtop performance in a compact footprint



MANUAL CENTRIFUGE
on page 10



EBA 200 | 200 S
on page 12



EBA 270
on page 18

01



EBA 280 | 280 S
on page 22



HAEMATOKRIT 200
on page 30

MANUAL CENTRIFUGE

Operate independently anywhere

The adaptable manual centrifuge can be simply clamped to any benchtop, with no need for electricity. Its self-lubricating drive system makes it virtually maintenance-free.

— Features

- Max. RPM: 3,000 min⁻¹
- Max. RCF: 1,298
- Max. capacity: 4 x 15 ml
- Maintenance-free due to its self-lubricating drive system
- Clamping device for simple table mounting
- Choice of 2 rotors

— Fields of application

- Field Testing
- Aid Organizations
- Pharmacies



Find out more
about the product.

Technical data

	MANUAL CENTRIFUGE without rotor	Swing-out rotor, 4-place	Swing-out rotor, 4-place
angle	-	90°	50°
max. capacity	-	4 x 15 ml (conical only)	4 x 15 ml
max. RPM	-	3,000 min ⁻¹	3,000 min ⁻¹
max. RCF	-	1,298	1,077
dimensions (WxDxH)	140 x 175 x 285 mm	-	-
weight	approx. 0.9 kg	-	-
Cat. No.	1011	1014	1025



EBA 200 | 200 S

Top performance for small laboratories

The EBA 200 and EBA 200 S are practical, compact centrifuges for small sample sizes. The high speed S model can deliver reliable results in 3 minutes or less. An 8-place fixed angle rotor is included to hold standard blood and urine tubes up to 15 ml in capacity.

— Features

- Max. RPM: 200 - 6,000 min⁻¹ | 8,000 min⁻¹ – adjustable in increments of 10
- Max. RCF: 3,461 | 6,153
- Max. capacity: 8 x 15 ml
- Small centrifuge including 8-place angle rotor
- Compact design
- IVDR-conform according to regulation (EU) 2017/746
- Maximum noise level of ≤ 50 dB(A) (EBA 200)
- Impulse key for short cycle mode
- 1 acceleration and 2 deceleration stages
- Easy operation with keypad

— Fields of application

- Physician's Office Laboratory (POL)
- Small laboratories
- Off-site draw locations



Centrifuge packages for the model can be found on [page 15](#)



More information about the control panel can be found on [page 206](#)



according to regulation (EU) 2017/746



Find out more
about the product.

Technical data

	EBA 200	EBA 200 S
voltage *)	200 – 240 V 1 ~	200 – 240 V 1 ~
frequency	50 – 60 Hz	50 – 60 Hz
consumption	100 VA	160 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	8 x 15 ml	8 x 15 ml
max. RPM	6,000 min ⁻¹	8,000 min ⁻¹
max. RCF	3,461	6,153
running time	1 – 99 min, ∞ continuous run, short cycle mode (impulse button)	1 – 99 min, ∞ continuous run, short cycle mode (impulse button)
dimensions (WxDxH)	261 x 353 x 228 mm	261 x 353 x 228 mm
weight	approx. 9 kg	approx. 11 kg
max. noise level	≤ 50 dB (A)	≤ 55 dB (A)
Cat. No.	1800	1802
100 – 127 V 1 ~ / 50–60 Hz	1800-01	1802-01
emission, immunity	FCC class B	FCC class B

*) Other voltages on request.

Available rotors

ANGLE ROTORS	angle	max. RPM	max. capacity	Cat. No	page
 angle rotor, 8-place	33°	6,000 min ⁻¹ 8,000 min ⁻¹	8 x 15 ml	INCLUSIVE	14

Angle rotor, 8-place



Rotor

max. RPM	EBA 200 200 S	6,000 min ⁻¹ 8,000 min ⁻¹
max. RCF		3,461 6,153
max. capacity		8 x 15 ml
run up / run down, braked in sec		17 / 12 37 / 17
angle		33°

Cat. No. **INCLUSIVE**



	Pediatric	microliter tubes			tubes ²⁾				blood collection / urine tubes								-
Vessels																	
capacity in ml	0.5	1.5	2	4	5	6	15	1.1–1.4	2.6–3.4	2.7–3	4.5–5	4.9	7.5–8.2	9–10	15		
Ø x L in mm	10.7 x 46	11 x 38	11 x 38	12 x 60	13 x 75	12 x 82	17 x 100	8 x 66	13 x 65	11 x 66	11 x 92	13 x 90	15 x 92	16 x 92	17 x 120		
max. RCF ²⁾	EBA 200	2,214	2,173	2,173	2,656	2,697	2,697	2,697	2,697	2,697	3,461	3,461	3,461	3,461	3,461		
max. RCF ²⁾	EBA 200 S	3,935	3,864	3,864	5,009	4,794	4,794	4,794	4,794	4,794	6,153	6,153	6,153	6,153	6,153		
radius in mm	55	54	54	66	67	67	86	67	67	67	86	86	86	86	86		
Adapter																	
boring Ø x L in mm	11 x 35	11 x 35	11 x 35	13.5 x 60	13.5 x 60	13.5 x 60	17.7 x 88	13.5 x 60	13.5 x 60	13.5 x 60	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88		
vessels per rotor	8	8	8	8	8	8	8	8	8	8	8	8	8	8	4		
Cat. No.		1063-8 (8 pcs.)			6305	1054-A	1054-A	-	1054-A	1054-A	1054-A	-	-	-	-	-	-

	blood collection / urine tubes					
Vessels						
capacity in ml	10	1.6–5	4–7	8	8.5–10	12
Ø x L in mm	15 x 102	13 x 75	13 x 100	16 x 125	16 x 100	17 x 102
max. RCF ²⁾	EBA 200	3,461	2,697	3,461	3,461	3,461
max. RCF ²⁾	EBA 200 S	6,153	4,794	6,153	6,153	6,153
radius in mm	86	69	86	86	86	86
Adapter						
boring Ø x L in mm	17.7 x 88	13.5 x 60	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88
vessels per rotor	8	8	8	4	8	8
Cat. No.	-	1059	-	-	-	-

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

12) For the EBA 200 only! Model EBA 200 S is supplied as standard with an adapter for these tubes.

Packages

EBA 200 S BLOOD TUBE PACKAGE 1

EBA 200 S BLOOD TUBE PACKAGE 1	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 200 S centrifuge incl. angle rotor, 8-place	1802 8	1.1 - 6	13 x 75	8,000	4,794
- 8 x adapter, 1-place	1054-A 8	4 - 7	13 x 100	8,000	6,153
- 8 x adapter, 1-place	1058				

1802SET1

EBA 200 BLOOD TUBE PACKAGE 2

EBA 200 BLOOD TUBE PACKAGE 2	number of vessels	volume (ml)	size (mm)	RPM	RCF	
- 1 x EBA 200 centrifuge incl. angle rotor	1800	8	1.1 - 6	13 x 75	6,000	2,777
- 8 x adapter, 1-place	1059	8	4 - 7	13 x 100	6,000	3,461
- 8 x adapter, 1-place	1058					

1800SET2



Product videos

Would you like to learn more about this product?
Scan the QR Code to visit our YouTube channel:
www.youtube.com/hettichlabtechnology



EBA 200 (MEDICAL DEVICE)

Top performance for small laboratories

The EBA 200 small centrifuge is a compact medical device used for separating whole blood or blood components of human origin, for example to obtain platelet-rich plasma for autologous therapies. This centrifuge comes equipped as standard with an 8-place angled rotor to accommodate tubes with volumes of up to 10 ml.

— Features

- Max. RPM: 200 - 6,000 min⁻¹ – adjustable in increments of 10
- Max. RCF: 3,461
- Max. capacity: 8 x 10 ml
- Small centrifuge including 8-place angle rotor
- Compact design
- Medical Device according to regulation (EU) 2017/745
- Maximum noise level of ≤ 50 dB(A)
- Impulse key for short cycle mode
- 1 acceleration and 2 deceleration stages
- Easy operation with keypad

— Fields of application

- Physician's Office Laboratory (POL)
- Dentists
- Small laboratories
- Orthopedics
- Hospitals



More information about the control panel
can be found on [page 206](#)



Find out more
about the product.

* If you use special PRP kits, please contact us: info@hettichlab.com

Technical data

EBA 200 (MD)	
voltage ^{*)}	200 – 240 V 1 ~
frequency	50 – 60 Hz
consumption	100 VA
emission, immunity	EN/IEC 61326-1, class B
max. capacity	8 x 10 ml
max. RPM	6,000 min ⁻¹
max. RCF	3,461
running time	1 – 99 min, ∞ continuous run, short cycle mode (impulse button)
dimensions (W x D x H)	261 x 353 x 228 mm
weight	approx. 9 kg
max. noise level	≤ 50 dB (A)
Cat. No.	1810

100 – 127 V 1 ~ / 50–60 Hz

emission, immunity

1810-01

FCC class B

^{*)} Other voltages on request.

Angle rotor, 8-place

Rotor

max. RPM	6,000 min ⁻¹
max. RCF	3,461
max. capacity	8 x 10 ml
run up / run down, braked in sec	17 / 12
angle max. noise level	33° 50 dB (A)

Cat. No. **INCLUSIVE**


Vessels

	1.4	2.6–3.4	2.7–3	4.5–5	4.9	7.5–8.2	9–10	10	8.5-10
capacity in ml	1.4	2.6–3.4	2.7–3	4.5–5	4.9	7.5–8.2	9–10	10	8.5-10
Ø x L in mm	8x66	13x65	11x66	11x92	13x90	15x92	16x92	15x102	16x100
max. RCF ²⁾	2,697	2,697	2,697	3,461	3,461	3,461	3,461	3,461	3,461
radius in mm	67	67	67	86	86	86	86	86	86



Adapter

	13.5x60	13.5x60	13.5x60	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88
boring Ø x L in mm	13.5x60	13.5x60	13.5x60	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88
vessels per rotor	8	8	8	8	8	8	8	8	8
Cat. No.	1054-A	1054-A	1054-A	-	-	-	-	-	-

tubes / kits



2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.

EBA 270

Superior separation results in medical applications

The EBA 270 is a small centrifuge with a built-in swing-out rotor that has been developed specifically for use in clinical settings. It can centrifuge blood tubes and urine tubes up to 15 ml in volume at a maximum speed of 4,000 RPM / 2,254 RCF. Its 90° rotor is ideally suited for spinning blood tubes containing a separating gel.

Features

- Max. RPM: 500 - 4,000 min⁻¹ – adjustable in increments of 100
- Max. RCF: 2,254
- Max. capacity: 6 x 15 ml
- Small centrifuge including 6-place swing-out rotor
- Compact design
- IVDR-conform according to regulation (EU) 2017/746
- Maximum noise level of ≤ 51 dB(A)
- Impulse key for short cycle mode
- 1 acceleration and 2 deceleration stages
- Easy operation with keypad

Fields of application

- Small laboratories
- Physician's Office Laboratory (POL)
- Hospitals



Centrifuge packages for the model can be found on [page 21](#)



More information about the control panel can be found on [page 206](#)



according to regulation (EU) 2017/746



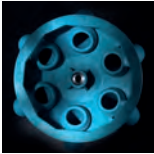
Find out more
about the product.

Technical data

EBA 270	
voltage *)	200 – 240 V 1 ~
frequency	50 – 60 Hz
consumption	130 VA
emission, immunity	EN/IEC 61326-1, class B
max. capacity	6 x 15 ml
max. RPM	4,000 min ⁻¹
max. RCF	2,254
running time	1 – 99 min, ∞ continuous run, short cycle mode (impulse button)
dimensions (WxDxH)	326 x 400 x 239 mm
weight	approx. 14 kg
max. noise level	≤ 51 dB (A)
Cat. No.	2300
100 – 127 V 1 ~ / 50–60 Hz	2300-01
consumption	125 VA
emission, immunity	FCC class B

*) Other voltages on request.

Available rotors

SWING-OUT ROTORS		angle	max. RPM	max. capacity	Cat. No	page
	swing-out rotor, 6-place	90°	4,000 min ⁻¹	6 x 15 ml	INCLUSIVE	20

— Swing-out rotor, 6-place



Rotor

max. RPM max. RCF	4,000 min ¹ 2,254
max. capacity	6 x 15 ml
run up run down, braked in sec	10 22
angle max. noise level	90° 51 dB (A)
Cat. No.	INCLUSIVE

Vessels

	Pediatric		microliter tubes				tubes ²⁾				blood collection / urine tubes				
capacity in ml	0.5	0.5	1.5	1.5	2	2	4	5	6	15	1.1 – 1.4	2.6 – 3.4	2.7 – 3	4 – 5.5	4.5 – 5
Ø x L in mm	10.7 x 46	10.7 x 46	11 x 38	11 x 38	11 x 38	11 x 38	10 x 88	12 x 75	12 x 82	17 x 100	8 x 66	13 x 65	11 x 66	15 x 75	11 x 92
max. RCF ²⁾	1,359	1,359	1,377	1,377	1,377	1,377	2,254	1,807	1,807	2,254	1,807	1,807	1,807	2,254	2,254
radius in mm	76	76	77	77	77	77	126	101	101	126	101	101	101	126	126



Adapter

boring Ø x L in mm	17.5 x 80	17.5 x 55	17.5 x 80	17.5 x 55	17.5 x 80	17.5 x 55	17.5 x 80	17.5 x 55	17.5 x 55	17.5 x 80	17.5 x 55	17.5 x 55	17.5 x 55	17.5 x 80	17.5 x 80
vessels per rotor	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Cat. No.	2331-6	2333-6	2331-6	2333-6	2331-6	2333-6	2331-6	2333-6	2333-6	2331-6	2333-6	2333-6	2333-6	2331-6	2331-6

Vessels

capacity in ml	4.9	7.5 – 10	10	1.6 – 7	4 – 7	8.5 – 10
Ø x L in mm	13 x 90	15/16 x 92	15 x 102	13/16 x 75	16 x 75	16 x 100
max. RCF ²⁾	2,254	2,254	2,254	1,807	1,807	2,254
radius in mm	126	126	126	101	101	126



Adapter

boring Ø x L in mm	17.5 x 80	17.5 x 80	17.5 x 80	17.5 x 55	17.5 x 55	17.5 x 80
vessels per rotor	6	6	6	6	6	6
Cat. No.	2331-6	2331-6	2331-6	2333-6	2333-6	2331-6

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Packages

EBA 270 BLOOD TUBE COMPLETE PACKAGE 1

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 270 centrifuge incl. swing-out rotor	2300	6	1.1 - 7	16 x 75	4,000	1,807
- 1 x adapter (set), 1-place	2333-6	6	1,5 - 15	17 x 102	4,000	2,254
- 1 x adapter (set), 1-place	2331-6	6	0.5 (Pediatric)	10,7 x 46	4,000	1,359
- 1 x adapter Pediatric (set), 1-place	1063-6					
2300SET1						



Product videos

Would you like to learn more about this product?
Scan the QR Code to visit our YouTube channel:
www.youtube.com/hettichlabtechnology



EBA 280 | 280 S

Simple rotor change for greater versatility

The EBA 280 and EBA 280 S offer exceptional user comfort and a choice of 6 rotors. The rotor can be removed and replaced easily thanks to the quick release system. The rotor locks in place and remains secure without the use of tools or extra effort. The backlit digital control panel offers the opportunity to save 9 multiple program settings.

— Features

- RPM: 200 - 6,000 min⁻¹ – adjustable in increments of 10
- Max. RCF: 4,146 | 5,071
- Max. capacity: 6 x 50 ml
- Small centrifuge with rapid rotor change system
- Choice of 6 rotors
- IVDR-conform according to regulation (EU) 2017/746
- Maximum noise level of ≤ 51 dB(A) (EBA 280)
- Impulse key for short cycle mode
- 9 individual acceleration and 10 deceleration stages
- Easy operation with keypad
- 9 programmable memory settings

— Fields of application

- Small laboratories
- Hospitals
- Blood banks
- Physician's Office Laboratory (POL)



Centrifuge packages for the model can be found on [page 28](#)



More information about the control panel can be found on [page 206](#)



according to regulation (EU) 2017/746



Find out more
about the product.

Technical data

	EBA 280	EBA 280 S
voltage *)	200 – 240 V 1 ~	200 – 240 V 1 ~
frequency	50 – 60 Hz	50 – 60 Hz
consumption	185 VA	330 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	6 x 50 ml	6 x 50 ml
max. RPM	6,000 min ⁻¹	6,000 min ⁻¹
max. RCF	4,146	5,071
running time	1 – 99 min: 59 sec, y continuous run, short cycle mode (impulse button)	1 – 99 min: 59 sec, y continuous run, short cycle mode (impulse button)
dimensions (WxDxH)	326 x 400 x 242 mm	326 x 400 x 242 mm
weight	approx. 12 kg	approx. 12 kg
noise level	≤ 47 dB (A) with rotor 1137	≤ 50 dB (A) with rotor 1137
Cat. No.	1101	1102
100 – 127 V 1 ~ / 50–60 Hz	1101-01	1102-01
emission, immunity	FCC class B	FCC class B

*) Other voltages on request.

Available rotors

SWING-OUT ROTORS

		angle	max. RPM	max. capacity	Cat. No.	page
	swing-out rotor, 6-place	90°	6,000 min ⁻¹	6 x 15 ml	1146	24
	swing-out rotor, 8-place	90°	5,000 min ⁻¹	8 x 10 ml	1148	25
	swing-out rotor, 12-place	60°	5,000 min ⁻¹	12 x 5 ml	1142	25

ANGLE ROTORS

	angle rotor, 6-place	35°	6,000 min ⁻¹	6 x 50 ml	1137	26
	angle rotor, 12-place	35°	5,000 min ⁻¹	12 x 7 ml	1133	26
	angle rotor, 12-place	35°	6,000 min ⁻¹	12 x 15 ml	1139	27

— Swing-out rotor, 6-place | 1146

		
Rotor		
max. RPM	EBA 280 EBA 280 S	4,700 min ⁻¹ 6,000 min ⁻¹
max. RCF		3,112 5,071
max. capacity		6 x 15 ml
run up / run down, braked in sec		9 / 11 11 / 13
angle max. noise level		90° 49 dB (A)
Cat. No.		1146

		
Bucket		
Cat. No.		1147-6 (6 pcs.)



	Pediatric	microliter tubes			tubes ²⁾				blood collection / urine tubes							
Vessels																
capacity in ml	0.5	1.5	2	4	5	6	15	1.1–1.4	2.6–3.4	2.7–3	4–5.5	4.5-5	4.9	7.5–10	1.6–5	
Ø x L in mm	10.7 x 46	11 x 38	11 x 38	10 x 88	12 x 75	12 x 82	17 x 100	8 x 66	13 x 65	11 x 66	15 x 75	11 x 92	13 x 90	15/16 x 92	13 x 75	
max. RCF ²⁾	EBA 280	1,877	1,902	1,902	3,112	2,618	2,865	3,112	2,618	2,618	2,618	3,112	3,112	3,112	2,618	
max. RCF ²⁾	EBA 280 S	3,059	3,099	3,099	5,071	4,266	4,669	5,071	4,266	4,266	4,266	5,071	5,071	5,071	4,266	
radius in mm	76	77	77	126	106	116	126	106	106	106	126	126	126	126	106	
Adapter																
boring Ø x L in mm	11 x 35	11 x 35	11 x 35		13.5 x 59	17.5 x 80		13.5 x 59	13.5 x 59	13.5 x 59					13.5 x 59	
vessels per rotor	6	6	6		6	6		6	6	6					6	
Cat. No.	1063-6 (6 pcs.)			-	1053-6	0767-6	-	1053-6 (6 pcs.)			-	-	-	-	1053-6	

	blood collection/urine tubes			
Vessels				
capacity in ml	4–7	4–7	8.5–10	12
Ø x L in mm	16 x 75	13 x 100	16 x 100	17 x 102
max. RCF ²⁾	EBA 280	2,865	3,112	3,112
max. RCF ²⁾	EBA 280 S	4,669	5,071	5,071
radius in mm	116	126	126	126
Adapter				
boring Ø x L in mm	17.5 x 80	13.5 x 79	17.5 x 80	17.5 x 80
vessels per rotor	6	6	6	6
Cat. No.	0767-6	1058	-	-

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

— Swing-out rotor, 8-place | 1148



Rotor

max. RPM max. RCF	5,000 min ⁻¹ 2,991
max. capacity	8 x 10 ml
run up run down, braked in sec	8 10
angle max. noise level	90° 50 dB (A)
Cat. No.	1148



Vessels

	tubes ²⁾			blood collection / urine tubes				
capacity in ml	5	6	10	2.6–3.4	2.7–3	4–5.5	1.6–5	4–7
Ø x L in mm	12 x 75	12 x 82	17 x 70	13 x 65	11 x 66	15 x 75	13 x 75	16 x 75
max. RCF ²⁾	2,991	2,991	2,991	2,991	2,991	2,991	2,991	2,991
radius in mm	107	107	107	107	107	107	107	107



Bucket

boring Ø x L in mm	13 x 53	13 x 53	17.5 x 53	13 x 53	13 x 53	17.5 x 53	13 x 53	17.5 x 53
vessels per rotor	8	8	8	8	8	8	8	8
Cat. No.	1131-A	1131-A	1132-A	1131-A	1131-A	1132-A	1131-A	1132-A

— Swing-out rotor, 12-place | 1142



Rotor

max. RPM max. RCF	5,000 min ⁻¹ 2,963
max. capacity	12 x 5 ml
run up run down, braked in sec	10 12
angle max. noise level	60° 49 dB (A)
Cat. No.	1142



Vessels

capacity in ml	5	2.6–3.4	2.7–3	1.6–5
Ø x L in mm	13 x 75	13 x 65	11 x 66	13 x 75
max. RCF ²⁾	2,963	2,963	2,963	2,963
radius in mm	106	106	106	106



Bucket

boring Ø x L in mm	13.2 x 53	13.2 x 53	13.2 x 53	13.2 x 53
vessels per rotor	12	12	12	12
Cat. No.	1127-A	1127-A	1127-A	1127-A

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Angle rotor, 6-place | 1137



Rotor

max. RPM max. RCF	6,000 min ⁻¹ 4,025
max. capacity	6 x 50 ml
run up run down, braked in sec	20 17
angle max. noise level	35° 47 dB (A)

Cat. No. 1137



Vessels

	tubes ²⁾				blood collection / urine tubes				tubes with screw cap			
capacity in ml	7	15	25	50	9–10	10	1.6–5	4–7	15	50	30	50
Ø x L in mm	12 x 100	17 x 100	24 x 100	34 x 100	16 x 92	15 x 102	13 x 75	13 x 100	17 x 120	29 x 115	26 x 95	29 x 107
max. RCF ²⁾	3,944	3,783	3,703	4,025	3,783	3,783	2,978	3,783	3,824	3,824	3,703	3,904
radius in mm	98	94	92	100	94	94	74	94	95	95	92	97



Adapter

	tubes ²⁾				blood collection / urine tubes				tubes with screw cap			
boring Ø x L in mm	13 x 92	17.5 x 95	26 x 88	35 x 96	17.5 x 95	17.5 x 95	17.5 x 95	17.5 x 95	17 x 98	30 x 98	26 x 88	29 x 95
vessels per rotor	18	6	6	6	6	6	6	6	6	3	6	6
Cat. No.	1632	1635	1633	-	1635	1635	1635	1635	1631	1641	1633	1634

Angle rotor, 12-place | 1133



Rotor

max. RPM max. RCF	5,000 min ⁻¹ 2,879
max. capacity	12 x 7 ml
run up run down, braked in sec	8 10
angle max. noise level	35° 51 dB (A)

Cat. No. 1133



Vessels

	tubes ²⁾		
capacity in ml	5	6	7
Ø x L in mm	12 x 75	12 x 82	12 x 100
max. RCF ²⁾	2,879	2,879	2,879
radius in mm	103	103	103



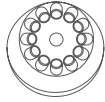
Adapter

boring Ø x L in mm	12.5 x 66	12.5 x 66	12.5 x 66
vessels per rotor	12	12	12
Cat. No.	-	-	-

What makes the 1133 rotor special is its adapters with a decanting aid. The decanting aid firmly holds the tube and keeps it from falling out when the supernatant is decanted. The 1133 rotor is often used in blood typing serology.

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Angle rotor, 12-place | 1139



Rotor

max. RPM max. RCF	6,000 min ⁻¹ 4,146
max. capacity	12 x 15 ml
run up run down, braked in sec	16 16
angle max. noise level	35° 50 dB (A)
Cat. No.	1139



	Pediatric	microliter tubes			tubes ²⁾							blood collection / urine tubes						
Vessels																		
capacity in ml	0.5	1.5	2	4	5	6	15	1.1–1.4	2.6–3.4	2.7–3	4.5–5	4.9	7.5–10	10	1.6–5			
Ø x L in mm	10.7 x 46	11 x 38	11 x 38	10 x 88	12 x 75	12 x 82	17 x 100	8 x 66	13 x 65	11 x 66	11 x 92	13 x 90	15/16 x 92	15 x 102	13 x 75			
max. RCF ²⁾	2,777	2,737	2,737	3,300	3,300	3,300	4,146	3,300	3,300	3,300	4,146	4,146	4,146	4,146	3,300			
radius in mm	69	68	68	82	82	82	103	82	82	82	103	103	103	103	82			
Adapter																		
boring Ø x L in mm	11 x 35	11 x 35	11 x 35	11.5 x 67.5	13.5 x 60	13.5 x 60	17.7 x 88	13.5 x 60	13.5 x 60	13.5 x 60	13.5 x 60	13.5 x 60	17.7 x 88	17.7 x 88	13.5 x 60			
vessels per rotor	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12			
Cat. No.	1063-6 (6 uds.)			6305	1054-A	1054-A	-	1054-A	1054-A	1054-A	1054-A	1054-A	-	-	1054-A			

	blood collection / urine tubes					-
Vessels						
capacity in ml	4–7	8	8.5–10	12	15	
Ø x L in mm	13 x 100	16 x 125	16 x 100	17 x 102	17 x 120	
max. RCF ²⁾	4,146	4,146	4,146	4,146	4,146	
radius in mm	103	103	103	103	103	
Adapter						
boring Ø x L in mm	13.5 x 79	17.7 x 88	17.7 x 88	13.5 x 60	17.7 x 88	
vessels per rotor	12	6	12	12	6	
Cat. No.	1058	-	-	1054-A	-	

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Packages

EBA 280 SEROLOGY PACKAGE 1

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 280 centrifuge	1101	12	1.6 - 5	13 x 75	5,000	2,963
- 1 x swing-out rotor, 12-place	1142					
- 12 x bucket	1127-A					

1101SET1

EBA 280 BLOOD TUBE PACKAGE 2

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 280 centrifuge	1101	6	1.1 - 5	13 x 75	4,700	2,618
- 1 x swing-out rotor, 6-place	1146	6		13 x 100	4,700	3,112
- 1 x bucket (set)	1147-6	6	4 - 7	16 x 75	4,700	2,865
- 1 x adapter (set), 1-place	1053-6					
- 6 x adapter, 1-place	1058					
- 1 x spacer (set)	0767-6					

1101SET2

EBA 280 BLOOD TUBE PACKAGE 3

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 280 centrifuge	1101	12	1.6 - 5	13 x 75	6,000	3,381
- 1 x angle rotor, 12-place	1139	12	4 - 7	13 x 100	6,000	4,146
- 12 x adapter, 1-place	1054-A					
- 12 x adapter, 1-place	1058					

1101SET3

EBA 280 BLOOD TUBE PACKAGE 4

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 280 centrifuge	1101	8	1.6 - 6	13 x 75	5,000	2,991
- 1 x swing-out rotor, 8-place	1148	8	4 - 10	16 x 75	5,000	2,991
- 8 x bucket	1131-A					
- 8 x bucket	1132-A					

1101SET4

EBA 280 SEROLOGY DECANTING PACKAGE 5

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 280 centrifuge	1101	12	5 - 7	12 x 75 / 100	5,000	2,879
- 1 x angle rotor, 12-place	1133					

1101SET5

EBA 280 S BLOOD TUBE PACKAGE 1

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x EBA 280 S centrifuge	1102	6	1.1 - 5	13 x 75	6,000	4,266
- 1 x swing-out rotor, 6-place	1146	6	4 - 7	13 x 100	6,000	5,071
- 1 x bucket (set)	1147-6	6	4 - 7	16 x 75	6,000	4,669
- 1 x adapter (set)	1053-6					
- 6 x adapter, 1-place	1058					
- 1 x spacer (set)	0767-6					

1102SET1





Product videos

Would you like to learn more about this product?
Scan the QR Code to visit our YouTube channel:
www.youtube.com/hettichlabtechnology



HAEMATOKRIT 200

Haematokrit determination in just 7 minutes

The HAEMATOKRIT 200 is a fast and efficient centrifuge for determining hematocrit count. It runs at 13,000 RPM and accommodates up to 24 capillary tubes to a maximum RCF of 16,060. Results can be clearly viewed with the integrated Haematocrit reader in the rotor lid.

— Features

- RPM: 200 - 13,000 min⁻¹ – adjustable up to 10,000 RPM in increments of 10, above in increments of 100
- Max. RCF: 16,060
- Compact, high-performance hematocrit centrifuge
- IVD-conform according to directive 98/79/EC
- Maximum noise level of ≤ 56 dB(A)
- Impulse key for short cycle mode
- 1 acceleration and 2 deceleration stages
- Easy operation with keypad

— Fields of application

- Manufacturers of analyzing systems
- Small hospitals
- Sports medicine



More information about the control panel
can be found on [page 206](#)



Find out more
about the product.



Technical data

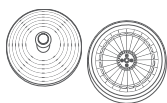
HAEMATOKRIT 200

voltage *)	200 – 240 V 1 ~
frequency	50 – 60 Hz
consumption	270 VA
emission, immunity	EN/IEC 61326-1, class B
max. capacity	24 capillaries
max. RPM	13,000 min ⁻¹
max. RCF	16,060
running time	1 – 99 min, ∞ continuous run, short cycle mode (impulse button)
dimensions (WxDxH)	261 x 353 x 228 mm
weight	approx. 10 kg
max. noise level	≤ 56 dB (A)
Cat. No.	1801
100 – 127 V 1 ~ / 50–60 Hz	1801-01
emission, immunity	FCC class B

*) Other voltages on request.

Disc rotor, 24-place | 2076

Rotor



max. RPM max. RCF	13,000 min ⁻¹ 16,060
max. capacity	24 capillaries
run up run down, braked in sec	9 16
angle max. noise level	90° 56 dB (A)
measuring lid	inclusive
Cat. No.	INCLUSIVE

-

Capillaries



Standard	
max. RCF ²⁾	16,060
radius in mm	85



Adapter

boring Ø x L in mm	-
capillaries per rotor	24
Cat. No.	-



HOLDING TRAYS

The holding trays in rotor 2076 are easy to clean and disposable in the case of glass breakage.



2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.

MICROLITER CENTRIFUGES

Powerful results at the micro level



MIKRO 185
on page 34



MIKRO 2.0 | 2.0 R
on page 38



MIKRO 200 | 200 R
on page 44

02



MIKRO 220 | 220 R

on page 50

MIKRO 185

Small footprint with unmatched capacity

The MIKRO 185 accommodates 12, 18 or 24 samples and is suitable for a wide range of tasks, thanks to a maximum RCF of 18,845 and a choice of 4 rotors. Spin column kits (minipreps) can also be used thanks to the special design of the 1213-A rotor.

— Features

- RPM: 200 - 14,000 min⁻¹ – Adjustable up to 10,000 RPM in increments of 10, above in increments of 100
- Max. RCF: 18,845
- Max. capacity: 24 x 2.0 ml
- Compact, high-performance microlitre centrifuge
- Choice of 4 rotors
- IVDR-conform according to regulation (EU) 2017/746
- Noise level of ≤ 54 dB (A) with rotor 1252-A
- Impulse button for short centrifugation
- 1 acceleration and 2 deceleration stages
- Easy operation with keypad

— Fields of application

- Hospitals
- Pediatric clinics
- Pharmaceutical laboratories
- Food analyzing laboratories
- University / Academic Research
- Forensic laboratories
- Paternity testing laboratories
- Blood centers
- PCR analytics



More information about the control panel can be found on [page 206](#)



according to regulation (EU) 2017/746



Find out more about the product.



Technical data

MIKRO 185	
voltage *)	200 – 240 V 1 ~
frequency	50 – 60 Hz
consumption	390 VA
emission, immunity	EN/IEC 61326-1, class B
max. capacity	24 x 1.5 / 2.0 ml
max. RPM	14,000 min ⁻¹
max. RCF	18,845
running time	1 – 99 min: 59 s, ∞ continuous run, short cycle mode (impulse button)
dimensions (WxDxH)	261 x 353 x 228 mm
weight	approx. 11 kg
noise level	≤ 54 dB (A) with rotor 1252-A
Cat. No.	1203
100 – 127 V 1 ~ / 50–60 Hz	1203-01
emission, immunity	FCC class B

*) Other voltages on request.

Available rotors

ANGLE ROTORS		angle	max. RPM	max. capacity	Cat. No.	page
	angle rotor, 24-place	45°	14,000 min ⁻¹	24 x 2 ml	1226-A	36
	angle rotor, 12-place	45°	14,000 min ⁻¹	12 x 2 ml	1252-A	36
	angle rotor, 18-place	45°	14,000 min ⁻¹	18 x 2 ml	1258-A	37
	angle rotor, 18-place for spin column kits	45°	14,000 min ⁻¹	18 x 2 ml	1213-A	37

Product videos

Would you like to learn more about this product?
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www.youtube.com/hettichlabtechnology



Angle rotor, 24-place | 1226-A

Rotor	
max. RPM max. RCF	14,000 min ⁻¹ 18,845
max. capacity	24 x 2 ml
run up run down, braked in sec	15 15
angle max. noise level	45° 59 dB (A)
Cat. No.	1226-A

+ Lid bioseal ⁵⁾
Cat. No.



INCLUSIVE



	microliter tubes						Pediatric
Vessels							
capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0	0.5
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38	10.7 x 46
max. RCF ²⁾	18,845	18,845	18,845	18,845	18,845	18,845	17,749
radius in mm	86	86	86	86	86	86	81
Adapter							
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10,2x19,3	11,2x39	11,2x39
vessels per rotor	24	24	24	24	24	24	12
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	0788

Angle rotor, 12-place | 1252-A

Rotor	
max. RPM max. RCF	14,000 min ⁻¹ 15,558
max. capacity	12 x 2 ml
run up run down, braked in sec	15 15
angle max. noise level	45° 54 dB (A)
Cat. No.	1252-A

+ Lid
Cat. No.



INCLUSIVE



	microliter tubes						Pediatric
Vessels							
capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0	0.5
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38	10.7 x 46
max. RCF ²⁾	15,558	15,558	15,558	15,558	15,558	15,558	14,462
radius in mm	71	71	71	71	71	71	66
Adapter							
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10,2x19,3	11,2x39	11,2x39
vessels per rotor	12	12	12	12	12	12	12
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	0788

- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- 7) For centrifugation at high speeds, we recommend to use conical, phenol-resistant adapters 2031.

Angle rotor, 18-place | 1258-A

Rotor	
max. RPM max. RCF	14,000 min ⁻¹ 16,654
max. capacity	18 x 2 ml
run up run down, braked in sec	15 15
angle max. noise level	45° 56 dB (A)
Cat. No.	1258-A



Lid	
Cat. No.	INCLUSIVE



	microliter tubes						Pediatric
Vessels							
capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0	0.5
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38	10.7 x 46
max. RCF ²⁾	16,654	16,654	16,654	16,654	16,654	16,654	15,558
radius in mm	76	76	76	76	76	76	71
Adapter							
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2x19.3	10.2x19	11.2x39
vessels per rotor	18	18	18	18	18	18	9
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	0788

Angle rotor, 18-place | 1213-A

Rotor	
max. RPM max. RCF	14,000 min ⁻¹ 16,654
max. capacity	18 x 2 ml
run up run down, braked in sec	16 15
angle max. noise level	45° 57 dB (A)
Cat. No.	1213-A



Lid bioseal⁹⁾	
Cat. No.	INCLUSIVE



	microliter tubes						micro spin columns
Vessels							
capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0	1.5
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38	11 x 38
max. RCF ²⁾	16,654	16,654	16,654	16,654	16,654	16,654	16,654
radius in mm	76	76	76	76	76	76	76
Adapter							
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2x19.3	11.2x39	10.2x19.3
vessels per rotor	18	18	18	18	18	18	18
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	2031⁷⁾

- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- 7) For centrifugation at high speeds, we recommend to use conical, phenol-resistant adapters 2031.

MIKRO 2.0 | 2.0 R

Compact, precise, easy to control

The MIKRO 2.0 | 2.0 R combines performance and ease of use in a compact design. The combination of push-turn control and a high-resolution LCD display facilitates quick and easy operation. Thanks to new features such as the quick-change rotor system, the quick-release lid lock and near-field communication (NFC) technology, it speeds up work processes and ensures greater efficiency. With a maximum relative centrifugal force (RCF) of 25,212 and, in their cooled versions, a temperature range of -20 to +40 °C, the MIKRO 2.0 and MIKRO 2.0 R offer maximum performance combined with maximum flexibility.

— Features

- max. RPM: 16,100 min⁻¹
- max. RCF: 25,212
- max. capacity: 24 x 2.0 ml / 12 x 5 ml
- 5 rotors to choose from
- Compliant with the In Vitro Diagnostic Regulation (EU) 2017/746
- Easy to use thanks to 3.5 inch LCD display and push-turn control including display of all relevant parameters, program menu, error display
- Tool-free quick-change rotor system
- Bio-tight quick-release rotor lid lock with safety catch to prevent unintentional release of the lid when carrying the rotor
- Automatic rotor detection in standstill conditions
- Cycle count detection in the rotor using NFC technology
- 99 program memory locations
- 10 individual start and 11 stop levels
- Model 2.0 R adjustable from -20 to +40 °C with intelligent pre-cooling function lasting 6 minutes (at room temperature 22 °C)

— Fields of application

- Hospitals
- Pediatric clinics
- Pharmaceutical laboratories
- Food analyzing laboratories
- University / Academic research
- Forensic laboratories
- Molecular diagnostics



according to regulation (EU) 2017/746

GENERAL
PURPOSE



Find out more
about the product.

Technical data

	MIKRO 2.0 non-refrigerated	MIKRO 2.0R refrigerated
voltage *)	100- 240 V 1 ~	100- 240 V 1 ~
frequency	50 – 60 Hz	50 – 60 Hz
consumption	270 VA	420 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	24 x 2,0 ml / 12 x 5 ml	24 x 2,0 ml / 12 x 5 ml
max. RPM	16.100 min ⁻¹	16.100 min ⁻¹
max. RCF	25.212	25.212
running time	99 h, 59 min, 59 sec, continuous run, short cycle mode (impulse button)	99 h, 59 min, 59 sec, continuous run, short cycle mode (impulse button)
dimensions (WxDxH)	240 x 389 x 225 mm	240 x 538 x 250 mm
weight	approx. 18 kg	approx. 30 kg
noise level	≤ 57 dB (A) with rotor 2414	≤ 57 dB (A) with rotor 2414
temperature control, infinitely variable	-	from -20 to +40 °C
Cat. No. – IVDR	2404	2406
Cat. No. – General Purpose (GP)	2440	2460

Available rotors

ANGLE ROTORS

		angle	max. RPM	max. capacity	Cat. No.	page
	angle rotor, 24-place	45°	16,100 min ⁻¹	24 x 2.0 ml	2414	40
	angle rotor, 24-place for spin column kits	45°	14,600 min ⁻¹	24 x spin columns	2415	40
	angle rotor, 20-place for cryo tubes	45°	14,600 min ⁻¹	20 x cryo tubes	2419	41
	angle rotor, 12-place	45°	14,900 min ⁻¹	12 x 5 ml	2413	41
	angle rotor, 8-place for PCR strips	45°	15,400 min ⁻¹	8 x 8 PCR strips	1540	42

Angle rotor, 24-place | 2414

			
Rotor		Lid bioseal ⁵⁾	
max. RPM max. RCF	16,100 min ⁻¹ 25,212	Cat. No.	INCLUSIVE
max. capacity	24 x 2 ml		
run up run down, braked in sec	11 11		
angle max. noise level	45° 57 dB (A)		
temperature in °C ¹⁾	+1.2		
Cat. No.	2414		

	microliter tubes						Pediatric
							 ⁸⁾
Vessels							
capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0	0.5
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38	10,7 x 46
max. RCF ²⁾	25,212	25,212	25,212	25,212	25,212	25,212	25,212
radius in mm	87	87	87	87	87	87	87
							
Adapter							
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2 x 19.3	11.2 x 42.6	11.2 x 39
vessels per rotor	24	24	24	24	24	24	12
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	0788

Angle rotor, 24-place | 2415

			
Rotor		Lid bioseal ⁵⁾	
max. RPM max. RCF	14,600 min ⁻¹ 20,733	Cat. No.	INCLUSIVE
max. capacity	24 x 2 ml		
run up run down, braked in sec	9 10		
angle max. noise level	45° 57 dB (A)		
temperature in °C ¹⁾	-2.6		
Cat. No.	2415		

	microliter tubes						micro spin columns	Pediatric
							 ⁸⁾	 ⁸⁾
Vessels								
capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0	0.6	0.8
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38	11 x 50	11 x 38
max. RCF ²⁾	20,733	20,733	20,733	20,733	20,733	20,733	20,733	20,733
radius in mm	85	85	85	85	85	85	85	85
							-	-
Adapter								
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2 x 19.3	11.2 x 42.6	-	-
vessels per rotor	24	24	24	24	24	24	12	24
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	-	0788

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
- Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- For centrifugation at high speeds, we recommend to use conical, phenol-resistant adapters. Cat. No. 2031.
- Only every second place can be occupied.

Angle rotor, 20-place | 2419

	
Rotor	
max. RPM max. RCF	14,600 min ⁻¹ 20,018
max. capacity	20 x 1.8 ml
run up run down, braked in sec	9 10
angle max. noise level	45° 57 dB (A)
temperature in °C ¹⁾	-3.4
Cat. No.	2419



Lid bioseal ⁵⁾

Cat. No.

INCLUSIVE



cryo tubes

	
Vessels	
capacity in ml	1.0 1.8
Ø x L in mm	12.5x41 12.5x48
max. RCF ²⁾	20,018 20,018
radius in mm	84 84



Adapter	
boring Ø x L in mm	- -
vessels per rotor	20 20
Cat. No.	- -

Angle rotor, 8-place | 1540

	
Rotor	
max. RPM max. RCF	15,400 min ⁻¹ 20,151
max. capacity	8 x 8 PCR strips
run up run down, braked in sec	9 10
angle max. noise level	45° 57 dB (A)
temperature in °C ¹⁾	-2.1
Cat. No.	1540



Lid bioseal ⁵⁾

Cat. No.

INCLUSIVE



PCR tubes/strips

	
Vessels	
capacity in ml	0,2 0,2
Ø x L in mm	6.2x20 6.2x20x8
max. RCF ^{2) 14)}	top row 18,295 20,151 bottom row 16,439 18,560
radius in mm ¹⁴⁾	top row 69 76 bottom row 62 70



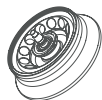
Adapter	
boring Ø x L in mm	- -
vessels per rotor	64 8 x 8
Cat. No.	- -

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- 14) Radius min. horizontal distance from the rotor axis to the bore tip, radius max. inclined distance from the rotor axis to the outer bore tip.

— Angle rotor, 12-place | 2413

Rotor

max. RPM max. RCF	14,900 min ⁻¹ 21,098
max. capacity	12 x 5 ml
run up run down, braked in sec	12 13
angle max. noise level	45° 57 dB (A)
temperature in °C ¹⁾	-1.0
Cat. No.	2413



Lid bioseal ⁵⁾

Cat. No.

INCLUSIVE



microliter-
tubes



Vessels

capacity in ml	5
Ø x L in mm	17 x 59
max. RCF ²⁾	21,098
radius in mm	85



Adapter

boring Ø x L in mm	-
vessels per rotor	12
Cat. No.	-

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.



Product videos

Would you like to learn more about this product?
Scan the QR Code to visit our YouTube channel:
www.youtube.com/hettichlabtechnology



MIKRO 200 | 200 R

Faster results in molecular biology

The MIKRO 200 and MIKRO 200 R are amongst the highest-speed microliter centrifuges in their class. Rotors are designed to spin microliter and PCR tubes. MIKRO 200 achieves a maximum RCF of 21,382 with up to 30 tubes, enabling rapid processing of samples and optimal separation, at low noise levels of 54 dB(A). This unit is available with refrigeration and a temperature range from -10 °C to +40 °C (MIKRO 200 R).

— Features

- RPM: 500 - 15,000 min⁻¹ – adjustable in increments of 10
- Max. RCF: 21,382
- Max. capacity: 30 x 2.0 ml
- Choice of 4 rotors
- IVDR-conform according to regulation (EU) 2017/746
- Impulse key for short cycle mode
- Easy operation with keypad and control knob
- 4 program memories for more individuality
- 9 individual acceleration and 9 deceleration stages
- Model 200 R coolable from -10 to +40 °C with pre-cooling function

— Fields of application

- Hospitals
- Pediatric clinics
- Pharmaceutical laboratories
- Food analyzing laboratories
- University / Academic research
- Forensic laboratories
- Molecular diagnostics



Centrifuge packages for the model can be found on [page 48](#)



More information about the control panel can be found on [page 206](#)



according to regulation (EU) 2017/746



Find out more about the product.



Technical data

	MIKRO 200 non-refrigerated	MIKRO 200 R refrigerated
voltage *)	200 – 240 V 1 ~	200 – 240 V 1 ~
frequency	50 – 60 Hz	50 Hz
consumption	240 VA	450 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	30 x 1.5 / 2.0 ml	30 x 1.5 / 2.0 ml
max. RPM	15,000 min ⁻¹	15,000 min ⁻¹
max. RCF	21,382	21,382
running time	1 – 99 min: 59 s, ∞ continuous run, short cycle mode (impulse button)	1 – 99 min: 59 s, ∞ continuous run, short cycle mode (impulse button)
dimesions (WxDxH)	275 x 344 x 260 mm	281 x 553 x 260 mm
weight	approx. 11.5 kg	approx. 28 kg
noise level	≤ 58 dB (A) with rotor 2434	≤ 51 dB (A) with rotor 2437
temperature control, infinitely variable	-	from -10 to +40 °C
Cat. No.	2400	2405
100 – 127 V 1 ~ / 50–60 Hz	2400-01	2405-01
consumption	270 VA	630 VA
emission, immunity	FCC class B	FCC class B

*) Other voltages on request.

Available rotors

ANGLE ROTORS	angle	max. RPM	max. capacity	Cat. No.	page
 angle rotor, 24-place	45°	15,000 min ⁻¹	24 x 2 ml	2434	46
 angle rotor, 30-place	45° inside / 55° outside	15,000 min ⁻¹	30 x 2 ml	2437	46
 angle rotor, 24-place for spin column kits	45°	15,000 min ⁻¹	24 x 2 ml	2428	47
 angle rotor, 4-place	45°	15,000 min ⁻¹	4 x 8 PCR strips	2418-A	47

Angle rotor, 24-place | 2434

Rotor	
max. RPM max. RCF	15,000 min ⁻¹ 21,382
max. capacity	24 x 2 ml
run up run down, braked in sec	20 28
angle max. noise level	45° 53 dB (A)
temperature in °C ¹⁾	+4
Cat. No.	2434


Lid bioseal ⁵⁾

Cat. No.

INCLUSIVE


	microliter tubes						Pediatric
Vessels							
capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0	0.5
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38	10.7 x 46
max. RCF ²⁾	21,382	21,382	21,382	21,382	21,382	21,382	20,376
radius in mm	85	85	85	85	85	85	81
Adapter							
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2 x 19.3	11.2 x 42.6	11.2 x 39
vessels per rotor	24	24	24	24	24	24	12
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	0788

Angle rotor, 30-place | 2437

Rotor	
max. RPM max. RCF	15,000 min ⁻¹ 21,382
max. capacity	30 x 2 ml
run up run down, braked in sec	22 30
angle max. noise level	45° inside / 55° outside 51 dB (A)
temperature in °C ¹⁾	+4
Cat. No.	2437


Lid bioseal ⁵⁾

Cat. No.

INCLUSIVE


	microliter tubes						Pediatric
Vessels							
capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0	0.5
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38	10.7 x 46
max. RCF ²⁾	21,382	21,382	21,382	21,382	21,382	21,382	20,376
radius in mm	85	85	85	85	85	85	81
Adapter							
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2 x 19.3	11.2 x 41.3	11.2 x 39
vessels per rotor	30	30	30	30	30	30	15
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	0788

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
- Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- For centrifugation at high speeds, we recommend to use conical, phenol-resistant adapters. Cat. No. 2031.

Angle rotor, 24-place | 2428

Rotor		+	Lid bioseal ⁵⁾	
max. RPM max. RCF	15,000 min ⁻¹ 21,382		Cat. No.	INCLUSIVE
max. capacity	24 x 2 ml			
run up run down, braked in sec	20 28			
angle max. noise level	45° 53 dB (A)			
temperature in °C ¹⁾	+4			
Cat. No.	2428			



	microliter tubes						micro spin columns		Pediatric
Vessels									
capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0	1.5	2.0	0.5
Ø x L in mm	6x18	6x45	8x30	8x45	11x38	11x38	11x38	11x38	10.7x46
max. RCF ²⁾	21,382	21,382	21,382	21,382	21,382	21,382	21,382	21,382	20,376
radius in mm	85	85	85	85	85	85	85	85	81
									
Adapter									
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10,2x19,3	10.2x19	10,2x19,3	11.2x42,6	11.2x39
vessels per rotor	24	24	24	24	24	24	24	24	12
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	2031⁷⁾	-	0788

Angle rotor, 4-place | 2418-A

Rotor		+	Lid	
max. RPM max. RCF	15,000 min ⁻¹ 14,338		Cat. No.	E3243
max. capacity	4 x 8 PCR strips			
run up run down, braked in sec	19 28			
angle	45°			
temperature in °C ¹⁾	+4			
Cat. No.	2418-A			



	-	PCR strips
Vessels		
capacity in ml	0.2	0.2
Ø x L in mm	6x18	-
max. RCF ²⁾	14,338	14,338
radius in mm	57	57
+		
Adapter		
boring Ø x L in mm	6.5x15.5	6.5x15.5
vessels per rotor	32	4 x 8
Cat. No.	-	-

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- 7) For centrifugation at high speeds, we recommend to use conical, phenol-resistant adapters. Cat. No. 2031.

Packages

MIKRO 200 MICROLITER TUBES PACKAGE 1

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x MIKRO 200	2400	24	0.2 - 2.0	11 x 38	15,000	21,382
- 1 x angle rotor 24-place, incl. lid bioseal	2434	12	0.5 (Pediatric)	10.7 x 46	15,000	20,376

2400SET1

MIKRO 200 MICROLITER TUBES PACKAGE 2

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x MIKRO 200	2400	30	0.2 - 2.0	11 x 38	15,000	21,382
- 1 x angle rotor 30-place, incl. lid bioseal	2437	15	0.5 (Pediatric)	10.7 x 46	15,000	20,376

2400SET2

MIKRO 200 R MICROLITER TUBES PACKAGE 1

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x MIKRO 200 R	2405	24	0.2 - 2.0	11 x 38	15,000	21,382
- 1 x angle rotor 24-place, incl. lid bioseal	2434	12	0.5 (Pediatric)	10.7 x 46	15,000	20,376

2405SET1

MIKRO 200 R MICROLITER TUBES PACKAGE 2

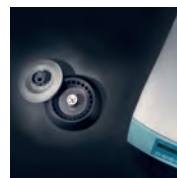
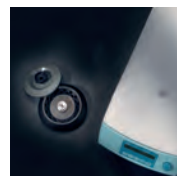
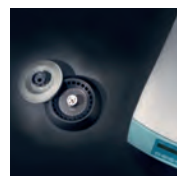
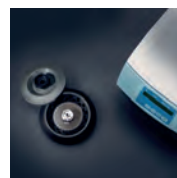
		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x MIKRO 200 R	2405	30	0.2 - 2.0	11 x 38	15,000	21,382
- 1 x angle rotor 30-place, incl. lid bioseal	2437	15	0.5 (Pediatric)	10.7 x 46	15,000	20,376

2405SET2

MIKRO 200 R SPIN COLUMN PACKAGE 3

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x MIKRO 200 R	2405	24	0.2 - 2.0	11 x 38	15,000	21,382
- 1 x angle rotor 24-place, incl. lid bioseal for spin column kits	2428	12	0.5 (Pediatric)	10.7 x 46	15,000	20,376

2405SET3





MIKRO 220 | 220 R

Fast and flexible

The MIKRO 220 spins at an unmatched speed of 18,000 RPM and delivers an RCF of 31,514 in just 26 seconds. Ultimate flexibility is provided by a choice of 8 different rotors from 0.2 ml microliter tubes to 50 ml conical tubes, allowing for numerous research applications on a single machine. This unit is available with refrigeration and a temperature range from -20 °C to +40 °C (MIKRO 220 R).

— Features

- RPM: 500 - 18,000 min⁻¹ – adjustable in increments of 10
- Max. RCF: 31,514
- Max. capacity: 60 x 2.0 ml
- Compact, high-performance microlitre centrifuge
- Choice of 8 rotors
- IVDR-conform according to regulation (EU) 2017/746
- Impulse key for short cycle mode
- Easy operation with keypad and control knob
- Impulse key for short cycle mode
- 9 program memories for more individuality
- 9 individual acceleration and 10 deceleration stages
- Model 220 R coolable from -20 to +40 °C (with pre-cooling function)

— Fields of application

- Hospitals
- Pediatric clinics
- Pharmaceutical laboratories
- Food analyzing laboratories
- University / Academic research
- Forensic laboratories
- Molecular diagnostics



Centrifuge packages for the model can be found on [page 55](#)



More information about the control panel can be found on [page 206](#)



according to regulation (EU) 2017/746



Find out more about the product.

Technical data

	MIKRO 220 non-refrigerated	MIKRO 220 R refrigerated
voltage *)	200 – 240 V 1 ~	200 – 240 V 1 ~
frequency	50 – 60 Hz	50 Hz
consumption	510 VA	850 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	48 x 1.5 / 2.0 ml, 6 x 50 ml	48 x 1.5 / 2.0 ml, 6 x 50 ml
max. RPM	18,000 min ⁻¹	18,000 min ⁻¹
max. RCF	31,514	31,514
running time	1 – 99 min: 59 s, ∞ continuous run, short cycle mode (impulse button)	1 – 99 min: 59 s, ∞ continuous run, short cycle mode (impulse button)
dimensions (WxDxH)	330x420x313 mm	335x650x313 mm
weight	approx. 21 kg	approx. 42 kg
noise level	≤ 58 dB (A) with rotor 1189-A	≤ 59 dB (A) with rotor 1016
temperatur control, infinitely variable	-	from -20 to +40 °C
Cat. No.	2200	2205
100 – 127 V 1 ~ / 60 Hz	2200-01	2205-01
consumption	510 VA	950 VA
emission, immunity	FCC class B	FCC class B

*) Other voltages on request.

Available rotors

SWING-OUT ROTORS

	angle	max. RPM	max. capacity	Cat. No.	page
 Swing-out rotor, 24-place	90°	13,000 min ⁻¹	24 x 2 ml	1154-L	53

ANGLE ROTOR

 Angle rotor, 24-place	45°	18,000 min ⁻¹	24 x 2 ml	1195-A	52
 Angle rotor, 30-place	45°	14,000 min ⁻¹	30 x 2 ml	1189-A	52
 Angle rotor, 48-place	45°	14,000 min ⁻¹	48 x 2 ml	1158-L	53
 Angle rotor, 6-place	45°	6,000 min ⁻¹	6 x 50 ml	1016	54
 Drum rotor, 6-place	90°	13,000 min ⁻¹	60 x 2 ml	1161	54
 Angle rotor, 12-place	35°	6,000 min ⁻¹	12 x 15 ml	1015	55

Angle rotor, 24-place | 1195-A

Rotor	
max. RPM max. RCF	18,000 min ⁻¹ 31,514
max. capacity	24 x 2 ml
run-up run-down, braked in sec	26 23
angle	45°
temperature in °C ¹⁾	+3
Cat. No.	1195-A


Lid bioseal ⁵⁾

Cat. No.

INCLUSIVE


	microliter tubes						Pediatric
Vessels							
capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0	0.5
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38	10.7 x 46
max. RCF ²⁾	31,514	31,514	31,514	31,514	31,514	31,514	30,065
radius in mm	87	87	87	87	87	87	83
Adapter							
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2x19.3	11.2x40.8	11.2x39
vessels per rotor	24	24	24	24	24	24	12
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	0788

Angle rotor, 30-place | 1189-A

Rotor	
max. RPM max. RCF	14,000 min ⁻¹ 21,255
max. capacity	30 x 2 ml
run-up run-down, braked in sec	20 22
angle max. noise level	45° 58 dB (A)
temperature in °C ¹⁾	+3
Cat. No.	1189-A


Lid bioseal ⁵⁾

Cat. No.

INCLUSIVE


	microliter tubes						Pediatric
Vessels							
capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0	0.5
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38	10.7 x 46
max. RCF ²⁾	21,255	21,255	21,255	21,255	21,255	21,255	20,379
radius in mm	97	97	97	97	97	97	93
Adapter							
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2x19.3	11.2x40.9	11.2x39
vessels per rotor	30	30	30	30	30	30	15
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	0788

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
- Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- For centrifugation at high speeds, we recommend to use conical, phenol-resistant adapters. Cat. No. 2031.

Angle rotor, 48-place | 1158-L

Rotor

max. RPM	14,000 min ⁻¹
max. RCF	21,255 outside / 18,845 inside
max. capacity	48 x 2 ml
run-up run-down, braked in sec	21 22
angle max. noise level	45° 59 dB (A)
temperature in °C ¹⁾	-4

Cat. No.

1158-L

Lid bioseal ⁵⁾

Cat. No.

INCLUSIVE

microliter tubes

Vessels

capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38
max. RCF ²⁾	outside / inside	21,255 / 18,845	21,255 / 18,845	21,255 / 18,845	21,255 / 18,845	21,255 / 18,845
radius in mm	outside / inside	97 / 86	97 / 86	97 / 86	97 / 86	97 / 86

Adapter

boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2x19.3	11.4 x 39
vessels per rotor	48	48	48	48	48	48

Cat. No.

2024

2024

2023

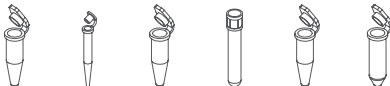
2023

2031⁷⁾

-



Swing-out rotor, 24-place | 1154-L

		+				
Rotor		Lid bioseal 5)		INCLUSIVE		
max. RPM max. RCF	13,000 min ⁻¹ 18,516	Cat. No.				
max. capacity	24 x 2 ml					
run-up run-down, braked in sec	25 26					
angle max. noise level	90° 60 dB (A)					
temperature in °C ¹⁾	-2					
Cat. No.	1154-L					
microliter tubes						
						
Vessels	0.2	0.4	0.5	0.8	1.5	2.0
capacity in ml	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38
Ø x L in mm	18,516	18,516	18,516	18,516	18,516	18,516
max. RCF ²⁾	98	98	98	98	98	98
radius in mm						
						
Adapter	6 x 40	6 x 40	8 x 40	8 x 40	10.2x19.3	11.5x38.5
boring Ø x L in mm	24	24	24	24	24	24
vessels per rotor						
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-



- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- 7) For centrifugation at high speeds, we recommend to use conical, phenol-resistant adapters. Cat. No. 2031.

Angle rotor, 6-place | 1016



Rotor

max. RPM max. RCF	6,000 min ⁻¹ 4,025
max. capacity	6 x 50 ml
run-up run-down, braked in sec	14 17
angle max. noise level	35° 59 dB (A)
temperature in °C ¹⁾	-20
Cat. No.	1016



Vessels

	tubes ²⁾				blood collection / urine tubes				-	tubes with screw cap			
capacity in ml	7	15	25	50	9-10	10	1.6-5	4-7	5	15	50	30	50
Ø x L in mm	12x100	17x100	24x100	34x100	16x92	15x102	13 x 75	13 x 100	17x59	17x120	29x115	26x95	29x107
max. RCF ²⁾	3,944	3,783	3,622	4,025	3,783	3,783	2,978	3,783	3,622	3,824	3,824	3,703	3,904
radius in mm	98	94	90	100	94	94	74	94	90	95	95	92	97



Adapter

boring Ø x L in mm	13 x 91.5	17.5 x 95	26 x 88	35x96	17.5x95	17.5x51	17.5 x 95	17.5 x 95	17x51	17x97.8	30x97.8	26x88	29x95
vessels per rotor	18	6	6	6	6	6	6	6	6	6	3	6	6
Cat. No.	1632	1635	1633	-	1635	1635	1635	1635	1649	1631	1641	1633	1634

Drum rotor, 6-place | 1161



Rotor

max. RPM max. RCF	13,000 min ⁻¹ 14,171
max. capacity	60 x 2 ml
run-up run-down, braked in sec	17 18
angle max. noise level	90° 60 dB (A)
temperature in °C ¹⁾	-3
Cat. No.	1161



Lid

Cat. No.	INCLUSIVE
-----------------	------------------



Vessels

	microliter tubes					
capacity in ml	0.2	0.4	0.5	0.8	1.5	2.0
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38
max. RCF ²⁾	14,171	14,171	14,171	14,171	14,171	14,171
radius in mm	75	75	75	75	75	75



Adapter

boring Ø x L in mm	6 x 40	6 x 40	8.4 x 42.5	8.4 x 42.5	10.8 x 37	10.8 x 37
vessels per rotor	192	192	126	126	60	60
Cat. No.	1378	1378	1379	1379	1377	1377

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.

Angle rotor, 12-place | 1015



Rotor

max. RPM max. RCF	6,000 min ⁻¹ 4,146
max. capacity	12 x 15 ml
run-up run-down, braked in sec	14 16
angle max. noise level	35° 60 dB (A)
temperature in °C ¹⁾	-20
Cat. No.	1015



Vessels

capacity in ml	5	15	1.1–1.4	2.6–3.4	2.7–3	4.5–5	4.9	7.5–8.2	9–10	10	1.6–5	4-7	8.5–10	15
Ø x L in mm	12x75	17x100	8x66	13x65	11x66	11x92	13x90	15x92	16x92	15x102	13x75	13x100	16x100	17x120
max. RCF ²⁾	3,300	4,146	3,300	3,300	3,300	4,146	4,146	4,146	4,146	4,146	3,300	4,146	4,146	4,146
radius in mm	82	103	82	82	82	103	103	103	103	103	82	103	103	103



Adapter

boring Ø x L in mm	13.5 x 59	17.7 x 88	13.5 x 59	13.5 x 59	13.5 x 59	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88	13.5 x 59	13.5 x 79	17.7 x 88	17.7 x 88
vessels per rotor	12	12	12	12	12	12	12	12	12	12	12	12	12	6
Cat. No.	1054-A	-	1054-A	1054-A	1054-A	-	-	-	-	-	1054-A	1058	-	-

Packages

MIKRO 220 MICROLITER TUBES PACKAGE 1

	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x MIKRO 220	24	0.2 - 2.0	11 x 38	18,000	31,514
- 1 x angle rotor 24-place, incl. lid bioseal	12	0.5 (Pediatric)	10.7 x 46	18,000	30,065

2200SET1

MIKRO 220 MICROLITER TUBES PACKAGE 2

	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x MIKRO 220	30	0.2 - 2.0	11 x 38	14,000	21,255
- 1 x angle rotor 30-place, incl. lid bioseal	15	0.5 (Pediatric)	10.7 x 46	14,000	20,379

2200SET2

MIKRO 220 R MICROLITER TUBES PACKAGE 1

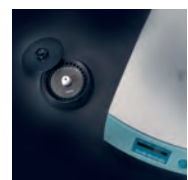
	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x MIKRO 220 R	24	0.2 - 2.0	11 x 38	18,000	31,514
- 1 x angle rotor 24-place, incl. lid bioseal	12	0.5 (Pediatric)	10.7 x 46	18,000	30,065

2205SET1

MIKRO 220 R MICROLITER TUBES PACKAGE 2

	number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x MIKRO 220 R	30	0.2 - 2.0	11 x 38	14,000	21,255
- 1 x angle rotor 30-place, incl. lid bioseal	15	0.5 (Pediatric)	10.7 x 46	14,000	20,379

2205SET2



BENCHTOP CENTRIFUGES

Specialists in diversity



ROTOFIX 32 A
on page 58



UNIVERSAL 320 | 320 R
on page 74



ROTINA 380 | 380 R
on page 98

03

BENCHTOP
CENTRIFUGES



ROTINA 420 | 420 R
on page 110



ROTANTA 460 | 460 R
on page 118



ROTOFIX 46 | 46 H
on page 136

ROTOFIX 32 A

Rugged and indispensable

For decades, the ROTOFIX 32 A has set the standard in daily lab routine thanks to its versatility and solid construction. The benchtop centrifuge spins sample volumes up to 4 x 100 ml, 40 blood collection tubes or 8 x 50 ml conical tubes with a simple user interface. Hettich's cytology rotors are compatible with most existing funnel/slide systems and have bio-containment lids.

— Features

- RPM: 500 - 6,000 min⁻¹ – adjustable in increments of 100
- Max. RCF: 4,226
- Max. capacity: 4 x 100 ml / 6 x 85 ml
- Choice of 9 rotors
- IVDR-conform according to regulation (EU) 2017/746
- Easy operation with keypad
- 2 individual deceleration stages

— Fields of application

- Hospitals
- Cell culture laboratories
- University / Academic research
- Pharmaceutical laboratories
- Physician's Office Laboratory (POL)



Centrifuge packages for the model can be found on [page 69](#)



More information about the control panel can be found on [page 206](#)

CYTO

Cyto system available for this model. More information on [page 184](#)



Find out more about the product.



Technical data

ROTOFIX 32 A	
voltage *)	208 – 240 V 1 ~
frequency	50 – 60 Hz
consumption	300 VA
emission, immunity	EN/IEC 61326-1, class B
max. capacity	4 x 100 ml / 6 x 94 ml
max. RPM	6,000 min ⁻¹
max. RCF	4,226
running time	1–99 min, ∞ continuous run, short cycle mode (impulse button)
dimensions (WxDxH)	366x430x257 mm
weight	approx. 23 kg
noise level	52 dB (A) with rotor 1628
Cat. No.	1206
100 – 127 V 1 ~ / 50 – 60 Hz *)	1206-01
emission, immunity	FCC class B

*) Other voltages on request.

Available rotors

SWING-OUT ROTORS

		angle	max. RPM	max. capacity	Cat. No.	page
	Swing-out rotor, 4-place	90°	4,000 min ⁻¹	4x100 ml	1624	60
	Swing-out rotor, 4-place	90°	4,000 min ⁻¹	4x100 ml	1324	63
	Swing-out rotor, 6-place	90°	4,000 min ⁻¹	6x50 ml	1619	65
	Swing-out rotor, 8-place	45°	4,000 min ⁻¹	8x50 ml	1617	65
	Swing-out rotor, 8-place	90°	4,000 min ⁻¹	8x15 ml	1611	66
	Swing-out rotor, 12-place	55° / 60° / 80°	4,000 min ⁻¹	12x15 ml	1628	66

ANGLE ROTORS

	Angle rotor, 8-place	45°	4,000 min ⁻¹	8x50 ml	1418	67
	Angle rotor, 6-place	35°	6,000 min ⁻¹	6x85 ml	1620A	68
	Angle rotor, 12-place	35°	6,000 min ⁻¹	12x15 ml	1613	69

Swing-out rotor, 4-place | 1624



Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,451
max. capacity	4 x 50 ml
run-up run-down, braked in sec	22 25
angle max. noise level	90° 55 dB (A)
Cat. No.	1624



Vessels

	5	5	6	7	9	9	15	15	20	25	45	50
capacity in ml	5	5	6	7	9	9	15	15	20	25	45	50
Ø x L in mm	12 x 75	12 x 75	12 x 82	12 x 100	14 x 100	14 x 100	17 x 100	17 x 100	21 x 100	24 x 100	31 x 100	34 x 100
max. RCF ²⁾	2,218	2,164	2,343	2,343	2,308	2,415	2,308	2,451	2,361	2,451	2,361	2,451
radius in mm	124	121	131	131	129	135	129	137	132	137	132	137



Carrier

boring Ø x L in mm	12 x 75	13.5 x 65	12.5 x 71.5	12.5 x 71.5	14.6 x 74	14.6 x 78	17.6 x 71.5	17.6 x 78	21.5 x 74	26 x 78	32 x 74	35 x 78
vessels per rotor	16	68	16	16	20	40	16	28	8	8	4	4
Cat. No.	1369-91	1372	1369-92	1369-92	1370	1741	1369	1742	1346	1745	1345	1746

blood collection / urine vessels

Vessels

capacity in ml	1.1–1.4	2.6–3.4	4–5.5	4.9	1.6–5	4–7	4–7	8.5–10	30	1–8
Ø x L in mm	8 x 66	13 x 65	15 x 75	13 x 90	13 x 75	16 x 75	13 x 100	16 x 100	26 x 95	simple / multiple
max. RCF ²⁾	2,415	2,325	2,325	2,451	2,325	2,325	2,451	2,451	2,451	1,646
radius in mm	135	130	130	137	130	130	137	129	137	92



Carrier

boring Ø x L in mm	14.6 x 78	17.6 x 78	17.6 x 78	14.6 x 78	17.6 x 78	17.6 x 78	13.5 x 78	17.6 x 71.5	26 x 78	-
vessels per rotor	40	28	28	40	28	28	28	16	8	4
Cat. No.	1741	1742	1742	1741	1742	1742	1739	1369⁴⁾	1745	1660

CYTO

Cyto system available for this model.
More information on [page 184](#)

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.

4) Please remove the spacer.

20) Vacutainers made of glass may not be used.

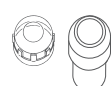
— Swing-out rotor, 4-place | 1624

			
Rotor		Bucket	
max. RPM max. RCF	4,000 min ⁻¹ 1,968	Cat. No.	1366
max. capacity	48 x 4 ml		
run-up run-down, braked in sec	22 25		
angle max. noise level	90° 56 dB (A)		
Cat. No.	1624		



	microliter tubes		Rhesus	tubes ²⁾	
					
Vessels					
capacity in ml	1.5	2.0	1	3	4
Ø x L in mm	11x38	11x38	6 x 45	10 x 60	12 x 60
max. RCF ²⁾	1,968	1,968	1,950	1,932	1,932
radius in mm	110	110	109	108	108
					
					
Adapter					
boring Ø x L in mm	11.5x38	11.5x38	6.5x23	10.5 x 23	12.5x44
vessels per rotor	36	36	120	48	48
Cat. No.	5277	5277	1357	1327	1326

— Swing-out rotor, 4-place | 1624

			
Rotor		Bucket	
max. RPM max. RCF	4,000 min ⁻¹ 2,665	Lid bioseal ⁵⁾	1492
max. capacity	4 x 100 ml	Cat. No.	1481
run-up run-down, braked in sec	22 25		
angle max. noise level	90° 55 dB (A)		
Cat. No.	1624		



	Pediatric	microtubes			Rhesus	tubes ²⁾									
															
Vessels															
capacity in ml	0,5	1,5	2,0	1	3	5	6	7	9	15	25	50	85	100	
Ø x L in mm	10.7x46	11x38	11x38	6x45	10x60	12x75	12x82	12x100	14x100	17x100	24x100	34x100	38x101	44x100	
max. RCF ²⁾	2,379	2,451	2,451	2,594	2,630	2,558	2,558	2,558	2,540	2,540	2,433	2,415	2,612	2,558	
radius in mm	133	135	135	145	147	141	141	141	142	142	136	135	146	143	
															
Adapter														Spacer	
boring Ø x L in mm	11.2x38	11.2x38	11.2x38	6.5x34	10.5x43	13.4x48	13.4x48	13.4x48	17.6x89	17.6x89	25.2x77	35.2x77	38.5x92	45.9x98	
vessels per rotor	20	20	20	108	36	20	20	20	16	16	4	4	4	4	
Cat. No.	1351	1351	1351	1339	1343	1383	1383	1383	1329	1329	1330	1331	1396	0761	

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.

5) Tested by TÜV in conformity with DIN EN 61010, section 2-020.

Swing-out rotor, 4-place | 1624

Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,665
max. capacity	4 x 100 ml
run-up run-down, braked in sec	22 25
angle max. noise level	90° 55 dB (A)
Cat. No.	1624



Bucket

Lid bioseal ⁵⁾	1492
Cat. No.	1481



Vessels

capacity in ml	1.1–1.4	2.7–3	2.6–4.9	4–8.5	9–10	10	1.6–7	4–10	15	50	12	25	30	50	10
Ø x L in mm	8 x 66	11 x 66	13x65/90	15x75/92	16 x 92	15x102	13x75/100	16x75/100	17x120	29x115	17 x 100	25 x 90	25 x 110	29 x 115	16 x 80
max. RCF ²⁾	2,540	2,558	2,558	2,576	2,540	2,665	2,558	2,522	2,665	2,665	2,665	2,343	2,665	2,665	2,522
radius in mm	142	143	143	144	142	149	143	141	149	149	149	131	149	149	141



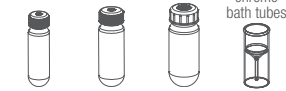
Adapter

boring Ø x L in mm	9x49	13.4x48	13.4x48	15.6x47	17.6x91	17.6x91	13.4x48	16.5x56	17x90	30x90	17x80	26x72	26x80	29.5x80	16.5x56
vessels per rotor	28	20	20	16	16	16	20	16	4	4	4	4	4	4	16
Cat. No.	1457	1383	1383	1459	1329	1329⁴⁾	1383	1348	1347	1384	6311	1363	1365	6318	1348

tubes with screw cap 0534⁶⁾ chrome bath tubes

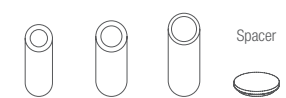
Vessels

capacity in ml	30	50	85	30
Ø x L in mm	26 x 95	29x107	38x106	44x105
max. RCF ²⁾	2,451	2,630	2,612	2,540
radius in mm	137	147	146	142



Adapter

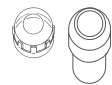
boring Ø x L in mm	26x83	29x93	38.5x92	45.9x98
vessels per rotor	4	4	4	4
Cat. No.	4417	4416	1396	0765



- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- When using these tubes, bucket 1490 cannot be closed with lid 1492.
- Please remove spacer.
- Tested by TÜV in conformity with DIN EN 61010, section 2-020.
- A rubber stopper for closing the tube for agitating or mixing is available under Cat. No. 0535. The tube may not be centrifuged with the stopper.

Swing-out rotor, 4-place | 1324

Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 2,630
max. capacity	4 x 100 ml
run-up run-down, braked in sec	27 30
angle max. noise level	90° 55 dB (A)
Cat. No.	1324

Bucket	
Lid bioseal ⁵⁾	1492
Cat. No.	1490



	Pediatric	microliter tubes			Rhesus	tubes ²⁾										
Vessels																
capacity in ml	0.5	1.5	2.0	1	3	4	5	6	7	9	15	25	50	85	100	
Ø x L in mm	10.7x46	11x38	11x38	6x45	10x60	10x88	12x75	12x82	12x100	14x100	17x100	24x100	34x100	38x101	44x100	
max. RCF ²⁾	2,343	2,415	2,415	2,558	2,594	2,594	2,522	2,522	2,522	2,504	2,504	2,397	2,379	2,576	2,522	
radius in mm	131	135	135	143	145	145	141	141	141	140	140	134	133	144	141	
Adapter																
boring Ø x L in mm	11.2x38	11.2x38	11.2x38	6.5x34	10.5x43	10.5x43	13.4x48	13.4x48	13.4x48	17.6x91	17.6x91	25.2x87	35.2x87	38.5x92	45.9x100.5	
vessels per rotor	20	20	20	108	36	36	20	20	20	16	16	4	4	4	4	
Cat. No.	1351	1351	1351	1339	1343	1343	1383	1383	1383	1329	1329	1330	1331	1396	0761	

	blood collection / urine vessels													-
Vessels														
capacity in ml	1.1-1.4	2.6-3.4	4.9	2.7-3	4.5-5	4-5.5	7.5-8.2	9-10	10	1.6-5	4-7	4-7	8.5-10	15
Ø x L in mm	8 x 66	13x65	13x90	11x66	11x92	15x75	15x92	16x92	15x102	13x75	13x100	16x75	16x100	17x120
max. RCF ²⁾	2,540	2,522	2,522	2,522	2,522	2,540	2,540	2,504	2,630	2,522	2,522	2,486	2,486	2,630
radius in mm	142	141	141	141	141	142	142	140	147	141	141	139	139	147
Adapter														
boring Ø x L in mm	9x47	13.4x45	13.4x45	13.4x45	13.4x45	15.6x47	15.6x47	17.6x91	17.6x91	13.4x45	13.4x45	16.5x56	16.5x56	17x90
vessels per rotor	28	20	20	20	20	16	16	16	16	20	20	16	16	4
Cat. No.	1457	1383	1383	1383	1383	1459	1459	1329	1329⁴⁾	1383	1383	1348	1348	1347

	tubes with screw cap										0534 ⁶⁾ chrome bath tube
Vessels											
capacity in ml	15	50	12	25	30	50	10	30	50	85	30
Ø x L in mm	17x120	29 x 115	17 x 100	25 x 90	25 x 110	29 x 115	16 x 80	26 x 95	29x107	38x106	44x105
max. RCF ²⁾	2,630	2,630	2,630	2,308	2,630	2,630	2,486	2,415	2,594	2,576	2,504
radius in mm	147	147	147	129	147	147	139	135	145	144	140
Adapter											
boring Ø x L in mm	17x107	30x90	17x80	26x72	26x80	29.5x80	16.5x56	26x83	29x93	38.5x92	45.9x100.5
vessels per rotor	12	4	4	4	4	4	16	4	4	4	4
Cat. No.	1356	1384	6311	1363	1365	6318	1348	4417	4416	1396	0765

— Swing-out rotor, 6-place | 1619

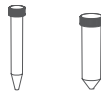


Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,701
max. capacity	6 x 50 ml
run-up run-down, braked in sec	22 25
angle max. noise level	90° 54 dB (A)

Cat. No. 1619

tubes with
screw cap



Vessels

capacity in ml	15	50
Ø x L in mm	17 x 120	29 x 115
max. RCF ²⁾	2,701	2,701
radius in mm	151	151



Adapter

boring Ø x L in mm	17 x 84	30 x 87.5
vessels per rotor	6	6

Cat. No. 1462-A -



— Swing-out rotor, 8-place | 1617

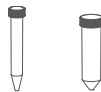


Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,469
max. capacity	8 x 50 ml
run-up run-down, braked in sec	22 25
angle max. noise level	45° 53 dB (A)

Cat. No. 1617

tubes with
screw cap



Vessels

capacity in ml	15	50
Ø x L in mm	17 x 120	29 x 115
max. RCF ²⁾	2,469	2,469
radius in mm	138	138



Adapter

boring Ø x L in mm	17 x 84	30 x 94.5
vessels per rotor	8	8

Cat. No. 1462-A -



2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Swing-out rotor, 8-place | 1611



Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,415
max. capacity	8 x 15 ml
run-up run-down, braked in sec	22 25
angle max. noise level	90° 53 dB (A)

Cat. No. 1611



	tubes ²⁾					blood collection / urine vessels								
Vessels														
capacity in ml	5	6	7	10	15	2.6-3.4	2.7-3	4-5.5	4.5-5	7.5-8.2	1.6-5	4-7	4-7	8.5-10
Ø x L in mm	12/13x75	12x82	12x100	13x100	17x100	13x65	11x66	15x75	11x92	15x92	13x75	13x100	16x75	16x100
max. RCF ²⁾	1,914	1,914	2,415	2,415	2,415	1,914	1,914	1,914	2,415	2,415	1,914	2,415	1,914	2,415
radius in mm	107	107	135	135	135	107	107	107	135	135	107	135	107	135
Bucket														
boring Ø x L in mm	13x53	13x53	13.2x81	13.2x81	17.5x81	13x53	13x53	17.5x53	13.2x81	17.5x81	13x53	13.2x81	17.5x53	17.5x81
vessels per rotor	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Cat. No.	1131-A	1131-A	1643	1643	1644	1131-A	1131-A	1132-A	1643	1644	1131-A	1643	1132-A	1644

Swing-out rotor, 12-place | 1628



Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,683
max. capacity	12 x 15 ml
run-up run-down, braked in sec	22 25
angle max. noise level	55° / 60° / 80° 52 dB (A)

Cat. No. 1628



	tubes ²⁾		blood collection / urine vessels								
Vessels											
capacity in ml	5	15	2.6-3.4	2.7-3	4-5.5	7.5-8.2	1.6-5	4-7	8.5-10		
Ø x L in mm	12/13x75	17x100	13x65	11x66	15x75	15x92	13x75	16x75	16x100		
max. RCF ²⁾	2,236	2,683	2,236	2,236	2,254	2,683	2,236	2,254	2,683		
radius in mm	125	150	125	125	126	150	125	126	150		
Bucket											
boring Ø x L in mm	13.2x53	17.5x79	13.2x53	13.2x53	17.5x53	17.5x79	13.2x53	17.5x53	17.5x79		
vessels per rotor	12	12	12	12	12	12	12	12	12		
Cat. No.	1127-A	1621	1127-A	1127-A	1122	1621	1127-A	1122	1621		

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Angle rotor, 8-place | 1418



Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,612
max. capacity	8 x 50 ml
run-up run-down, braked in sec	36 43
angle max. noise level	45° 53 dB (A)
Cat. No.	1418



Vessels

	tubes ²⁾		blood collection / urine vessels						tubes with screw cap				
capacity in ml	5	12	1.1-1.4	2.6-3.4	2.7-3	9-10	1.6-5	15	50	15	50	50	50
Ø x L in mm	12 x 75	17 x 100	8 x 66	13 x 65	11 x 66	16 x 92	13 x 75	17 x 120	29 x 115	17 x 100	29 x 115	29 x 115	29 x 107
max. RCF ²⁾	2,182	2,540	2,182	2,182	2,182	2,540	2,182	2,594	2,486	2,540	2,486	2,486	2,486
radius in mm	122	142	122	122	122	142	122	145	139	142	139	139	139
	+ 1054-A	+ 0716	+ 1054-A	+ 1054-A	+ 1054-A	+ 0716	+ 1054-A	+ E2109	+ E2110-A	+ 0716			
Carrier													
boring Ø x L in mm	17.4 x 91	17.4 x 91	17.4 x 91	17.4 x 91	17.4 x 91	17.4 x 91	17.4 x 91	17.4 x 91	30.2 x 92	17.4 x 91	30.2 x 92	30.2 x 92	30.2 x 92
vessels per rotor	32	32	32	32	32	32	32	32	8	32	8	8	8
Cat. No.	1467	1467	1467	1467	1467	1467	1467	1467	1468	1467	1468	1468	1468

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Angle rotor, 6-place | 1620A



Rotor

max. RPM max. RCF	6,000 min ⁻¹ 4,226
max. capacity	6 x 85 ml
run-up run-down, braked in sec	19 22
angle max. noise level	35° 53 dB (A)
Cat. No.	1620A



Vessels

capacity in ml	0.5	1.5	2.0	3	15	50	94	7.5 – 8.2	9 – 10	10	8.5 – 10	15	50	50	10
Ø x L in mm	10.7x46	11x38	11x38	10x60	17x100	34x100	38x102	15x92	16x92	15x102	16x100	17x120	29 x 115	29 x 115	16 x 80
max. RCF ²⁾	4,105	4,105	4,105	4,105	3,904	4,146	4,226	3,904	3,904	3,904	3,904	3,985	3,985	3,985	3,904
radius in mm	102	102	102	102	97	103	105	97	97	97	97	99	99	99	97



Adapter

boring Ø x L in mm	11.4 x 39	11.4 x 39	11.4 x 39	11.4 x 39	17.5 x 91.5	35 x 89.3	38.6 x 90.2	17.5 x 91.5	17.5 x 91.5	17.5 x 91.5	17.5 x 91.5	17 x 106	29.8 x 96.7	-	16.5 x 74
vessels per rotor	24	24	24	24	6	6	6	6	6	6	6	6	3	6	12
Cat. No.	1449	1449	1449	1449	1451	1463	-	1451	1451	1451	1451	1466	1454	1646 ⁸⁾	1448

tubes with screw cap

Vessels

capacity in ml	30	50	85
Ø x L in mm	26 x 95	29 x 107	38 x 106
max. RCF ²⁾	3,824	4,025	4,226
radius in mm	95	100	105



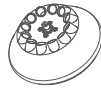
Adapter

boring Ø x L in mm	26 x 85	29 x 92	38.6 x 90.2
vessels per rotor	6	6	6
Cat. No.	1447	1446	-

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

8) Adapter (Set), 6-place: for conical 50 ml tubes with screw cap.

Angle rotor, 12-place | 1613



Rotor

max. RPM max. RCF	6,000 min ⁻¹ 4,146
max. capacity	12 x 15 ml
run-up run-down, braked in sec	13 15
angle max. noise level	35° 55 dB (A)
Cat. No.	1613



Vessels

	Pediatric	tubes ²⁾					blood collection / urine vessels							
capacity in ml	0.5	4	5	6	15		1.1-1.4	2.6-3.4	2.7-3	4.5-5	4.9	7.5-8.2	9-10	10
Ø x L in mm	10.7 x 46	10 x 88	12/13 x 75	12 x 82	17 x 100		8 x 66	13 x 65	11 x 66	11 x 92	13 x 90	15 x 92	16 x 92	15 x 102
max. RCF ²⁾	2,777	3,502	3,300	3,300	4,146		3,300	3,300	3,300	4,146	4,146	4,146	4,146	4,146
radius in mm	69	87	82	82	103		82	82	82	103	103	103	103	103



Adapter

boring Ø x L in mm	11 x 35	11.5 x 67.5	13.5 x 60	13.5 x 60	17.7 x 88		13.5 x 60	13.5 x 60	13.5 x 60	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88
vessels per rotor	12	12	12	12	12		12	12	12	12	12	12	12	12
Cat. No.	2 x 1063-6 (6 pcs.)	6305	1054-A	1054-A	-		1054-A	1054-A	1054-A	-	-	-	-	-

blood collection / urine vessels

Vessels

capacity in ml	1.6-5	8	8.5-10	15
Ø x L in mm	13 x 75	16 x 125	16 x 100	17 x 120
max. RCF ²⁾	3,300	4,146	4,146	4,146
radius in mm	82	103	103	103



Adapter

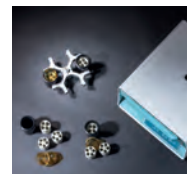
boring Ø x L in mm	13.5 x 60	17.7 x 88	17.7 x 88	17.7 x 88
vessels per rotor	12	6	12	6
Cat. No.	1054-A	-	-	-

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Packages

ROTOfix 32 A BLOOD TUBE PACKAGE 1*

ROTOFIX 32 A BLOOD TUBE PACKAGE 1*	number of vessels	volume (ml)	size (mm)	RPM	RCF	
- 1 x ROTOFIX 32 A centrifuge	1206	20	1.6 - 7	13 x 90 / 100	4,000	2,558
- 1 x Swing-out rotor, 4-place	1624	16	4 - 10	16 x 75 / 100	4,000	2,522
- 4 x bucket	1481					
- 4 x lid (bioseal)	1492					
- 4 x adapter, 5-place	1383					
- 4 x adapter, 4-place	1348					
1206SET1						



ROTOFIX 32 A (Medical Device)

Rugged and indispensable

The ruggedly built ROTOFIX 32 A benchtop centrifuge is a medical device used for separating whole blood or blood components of human origin, for example to obtain platelet-rich plasma for autologous therapies. The ROTOFIX 32 A delivers convincing performance thanks to its high capacity and the versatility of its rotor selection.

— Features

- RPM: 500 - 6,000 min⁻¹ – adjustable in increments of 100
- Max. RCF: 3,904
- Max. capacity: 8 x 50 ml
- Choice of 4 rotors
- Medical Device according to regulation (EU) 2017/745
- Easy operation with keypad
- 2 individual deceleration stages

— Fields of application

- Hospitals
- medical practices
- Dental surgeries
- Orthopedic practices



More information about the control panel can be found on [page 206](#)



Find out more about the product.



* If you use special PRP kits, please contact us: info@hettichlab.com

Technical data

ROTOFIX 32 A (MD)	
voltage *)	208 – 240 V 1 ~
frequency	50 – 60 Hz
consumption	300 VA
emission, immunity	EN/IEC 61326-1, class B
max. capacity	8 x 50 ml
max. RPM	6,000 min ⁻¹
max. RCF	3,904
running time	1–99 min, ∞ continuous run, short cycle mode (impulse button)
dimensions (WxDxH)	366x430x257 mm
weight	approx. 23 kg
noise level	53 dB (A) with rotor 1418
Cat. No.	1207
100 – 127 V 1 ~ / 50 – 60 Hz *)	1207-01
emission, immunity	FCC class B

*) Other voltages on request.

Available rotors

SWING-OUT ROTORS

		angle	max. RPM	max. capacity	Cat. No.	page
	Swing-out rotor, 4-place	90°	4,000 min ⁻¹	16 x 10 ml	1624	72
	Swing-out rotor, 4-place	90°	4,000 min ⁻¹	16 x 10 ml	1324	72

ANGLE ROTORS

	Angle rotor, 8-place	45°	4,000 min ⁻¹	8 x 50 ml	1418	73
	Angle rotor, 6-place	35°	6,000 min ⁻¹	6 x 10 ml	1620A	73

Swing-out rotor, 4-place | 1624

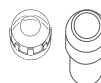
Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,665
max. capacity	16 x 10 ml
run-up run-down, braked in sec	22 25
angle max. noise level	90° 55 dB (A)
Cat. No.	1624



Bucket

Lid bioseal ⁵⁾	1492
Cat. No.	1481



tubes / kits

Vessels

capacity in ml	4–5.5	4.5–5	4.9	7.5–8.2	7.5–8.2	9–10	10	8.5–10	20
Ø x L in mm	15 x 75	11 x 92	13 x 90	15 x 92	15 x 92	16 x 92	15 x 102	16 x 100	31 x 97
max. RCF ²⁾	2,576	2,558	2,558	2,576	2,576	2,540	2,665	2,451	2,308
radius in mm	144	143	143	142	142	142	149	137	137



Adapter

boring Ø x L in mm	15.6 x 47	13.4 x 48	13.4 x 48	15.6 x 47	17.6 x 91	17.6 x 91	17.6 x 91	17.6 x 71.5	31 x 85
vessels per rotor	16	20	20	16	16	16	16	16	4
Cat. No.	1459	1383	1383	1459	1329	1329	1329	1369⁴⁾	1309



Swing-out rotor, 4-place | 1324

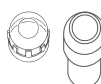
Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,630
max. capacity	16 x 10 ml
run-up run-down, braked in sec	27 30
angle max. noise level	90° 55 dB (A)
Cat. No.	1324



Bucket

Lid bioseal ⁵⁾	1492
Cat. No.	1490



tubes / kits

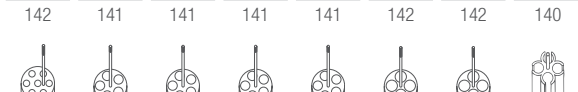
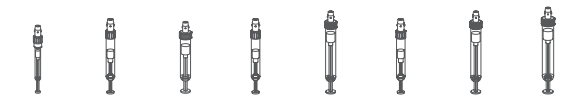
Vessels

capacity in ml	1.1–1.4	2.6–3.4	4.9	2.7–3	4.5–5	4–5.5	7.5–8.2	9–10
Ø x L in mm	8 x 66	13 x 65	13 x 90	11 x 66	11 x 92	15 x 75	15 x 92	16 x 92
max. RCF ²⁾	2,540	2,522	2,522	2,522	2,522	2,540	2,540	2,504
radius in mm	142	141	141	141	141	142	142	140



Adapter

boring Ø x L in mm	9 x 47	13.4 x 48	13.4 x 48	13.4 x 48	13.4 x 48	15.6 x 47	15.6 x 47	17.6 x 91
vessels per rotor	28	20	20	20	20	16	16	16
Cat. No.	1457	1383	1383	1383	1383	1459	1459	1329



2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.

5) Tested by TÜV in conformity with DIN EN 61010, section 2-020.

20) Vacutainers made of glass may not be used.

Angle rotor, 8-place | 1418



Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,683
max. capacity	8 x 50 ml
run-up run-down, braked in sec	36 43
angle max. noise level	45° 53 dB (A)

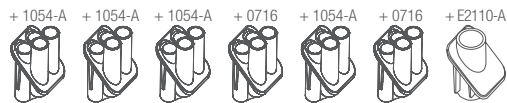
Cat. No. 1418



tubes / kits

Vessels

capacity in ml	1.1 – 1.4	2.6 – 3.4	2.7 – 3	9 – 10	1.6 – 5	10	50
Ø x L in mm	8 x 66	13 x 65	11 x 66	16 x 92	13 x 75	16 x 100	29 x 107
max. RCF ²⁾	2,182	2,182	2,182	2,540	2,182	2,683	2,486
radius in mm	122	122	122	142	122	150	139



Carrier

boring Ø x L in mm	17.4 x 91	17.4 x 91	17.4 x 91	17.4 x 91	17.4 x 91	17.4 x 91	30.2 x 92
vessels per rotor	32	32	32	32	32	32	8

Cat. No. 1467 1467 1467 1467 1467 1467 1468

Angle rotor, 6-place | 1620A



Rotor

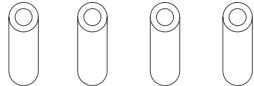
max. RPM max. RCF	6,000 min ⁻¹ 3,904
max. capacity	6 x 10 ml
run-up run-down, braked in sec	19 22
angle max. noise level	35° 53 dB (A)

Cat. No. 1620A

tubes / kits

Vessels

capacity in ml	7.5 – 8.2	9 – 10	10	8.5 – 10
Ø x L in mm	15 x 92	16 x 92	15 x 102	16 x 100
max. RCF ²⁾	3,904	3,904	3,904	3,904
radius in mm	97	97	97	97



Adapter

boring Ø x L in mm	17.5 x 92	17.5 x 92	17.5 x 92	17.5 x 92
vessels per rotor	6	6	6	6

Cat. No. 1451 1451 1451 1451



2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.

UNIVERSAL 320 | 320 R

A universal choice

The UNIVERSAL 320 is a compact, versatile and indispensable general purpose centrifuge. Excellent performance and a comprehensive range of accessories enable the UNIVERSAL 320 to carry out virtually any centrifuging tasks including plates, blood tubes, cell culture, microliter and cytology. This unit is available with refrigeration and a temperature range from -20 °C to +40 °C (UNIVERSAL 320 R).

— Features

- RPM: 500 - 16,000 min⁻¹ – adjustable in increments of 10
- Max. RCF: 24,900
- Max. capacity: 4 x 200 ml / 6 x 94 ml
- The universal choice among the benchtop centrifuges
- Choice of 18 rotors
- IVDR-conform according to regulation (EU) 2017/746
- Noise level of 48 dB(A) with Angle rotor 1611
- Easy operation with keypad and control knob
- Impulse key for short cycle mode
- 9 program memories
- 9 individual acceleration and 10 deceleration stages
- Model 320 R coolable from -20 to +40 °C (with pre-cooling function)



Centrifuge packages for the model can be found on [page 96](#)



More information about the control panel can be found on [page 206](#)

CYTO

Cyto system available for this model. More information on [page 184](#)

— Fields of application

- Small laboratories
- Hospitals
- Cell Culture laboratories
- University / Academic research
- Pharmaceutical laboratories
- Food analyzing laboratories
- Physicians Office Lab (POL)



UNIVERSAL 320 R



UNIVERSAL 320



according to regulation (EU) 2017/746



Find out more about the product.

Technical data

	UNIVERSAL 320 non-refrigerated	UNIVERSAL 320 R refrigerated
voltage *)	200 – 240 V 1 ~	200 – 240 V 1 ~ 240 V 1 ~
frequency	50 – 60 Hz	50 – 60 Hz 60 Hz
consumption	400 VA	800 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	4 x 200 ml / 6 x 94 ml	4 x 200 ml / 6 x 94 ml
max. RPM	16,000 min ⁻¹	16,000 min ⁻¹
max. RCF	24,900	24,900
running time	1sec – 99 min: 59 sec, ∞ continuous run, short cycle mode (impulse button)	1sec – 99 min: 59 sec, ∞ continuous run, short cycle mode (impulse button)
dimensions (WxDxH)	401 x 529 x 346 mm	407 x 698 x 346 mm
weight	approx. 31 kg	approx. 52 kg
noise level	48 dB (A) with rotor 1611	50 dB (A) with rotor 1611
temperature control, infinitely variable	-	from -20 to +40 °C
Cat. No.	1401	1406
100 – 127 V 1 ~ / 50–60 Hz *)	1401-01	1406-01
consumption	400 VA	950 VA
emission, Immunity	FCC class B	FCC class B

*) Other voltages on request.

Available rotors

SWING-OUT ROTORS	angle	max. RPM	max. capacity	Cat. No.	page
Swing-out rotor, 4-places	90°	4,500 min ⁻¹	4x200 ml	1554	76
Swing-out rotor, 4-places	90°	5,000 min ⁻¹	4x100 ml	1494	79
Swing-out rotor, 4-places	90°	4,000 min ⁻¹	4x100 ml	1624	82
Swing-out rotor, 4-places	90°	4,500 min ⁻¹	4x100 ml	1324	85
Swing-out rotor, 8-places	90°	4,000 min ⁻¹	8x15 ml	1611	87
Swing-out rotor, 12-places	55° / 60° / 80°	4,000 min ⁻¹	12x15 ml	1628	87
Swing-out rotor, 8-places	45°	5,000 min ⁻¹	8x50 ml	1617	88
Swing-out rotor, 6-places	90°	4,000 min ⁻¹	6x50 ml	1619	88
Swing-out rotor, 2-places	90°	4,000 min ⁻¹	10 plates	1460	89
Swing-out rotor, 24-places	90°	13,000 min ⁻¹	24x2 ml	1555	89
ANGLE ROTORS					
Angle rotor, 24-places	50°	16,000 min ⁻¹	24x2 ml	1552	90
Angle rotor, 30-places	45°	14,150 min ⁻¹	30x2 ml	1553	90
Angle rotor, 8-places	45°	13,000 min ⁻¹	8 x 8 PCR strips	1551	91
Angle rotor, 18-places	45°	14,150 min ⁻¹	18 x 5 ml	1627	91
Angle rotor, 6-places	35°	9,000 min ⁻¹	6x94 ml	1556	92
Angle rotor, 12-places	35°	6,000 min ⁻¹	12x15 ml	1613	92
Angle rotor, 12-places	35°	12,000 min ⁻¹	12x15 ml	1615	94
Angle rotor, 8-places	45°	4,500 min ⁻¹	8x50 ml	1418	95

Swing-out rotor, 4-place | 1554

Rotor	
max. RPM max. RCF	4,500 min ¹ 3,328
max. capacity	4 x 200 ml
run-up run-down, braked in sec	28 31
angle max. noise level	90° 60 dB (A)
temperature in °C ¹⁾	-8
Cat. No.	1554

Bucket with clamp lock	
Lid bioseal ⁵⁾	1561
Cat. No.	1560
Bucket without clamp lock¹⁴⁾	
Cat. No.	1565



	microliter tubes			tubes ²⁾										-	-
Vessels															
capacity in ml	1.5	2.0	5	5	6	7	9	15	15	25	50	85	100	125	150
Ø x L in mm	11 x 38	11 x 38	17 x 59	12 x 75	12 x 82	12 x 100	14 x 100	17 x 100	18 x 102	24 x 100	34 x 100	38 x 101	44 x 100	51 x 100	51 x 116
max. RCF ²⁾	3,328	2,332	3,328	3,215	3,215	3,215	3,215	3,215	3,260	3,056	3,147	3,260	3,124	3,328	3,328
radius in mm	147	103	147	142	142	142	142	142	144	135	138	144	138	147	147
Adapter															
boring Ø x L in mm	11.5 x 39	11.5 x 39	17 x 52	13.5 x 60	13.5 x 60	13.5 x 60	17.5 x 60	17.5 x 60	18.5 x 74	25.2 x 66	35.2 x 69	38.5 x 74	45.5 x 69	52 x 77	52 x 77
vessels per rotor	56	56	16	28	28	28	20	20	16	4	4	4	4	4	4
Cat. No.	1571	1571	1593	1589	1589	1589	1588	1588	1572	1573	1574	1575	1576	1594	1594

	0555	blood collection / urine vessels													
Vessels															
capacity in ml	200	1.1-1.4	2.6-3.4	4.9	2.7-3	4-5	4-5.5	7.5-8.2	9-10	10	1.6-5	4-7	4-7	8.5-10	12
Ø x L in mm	56 x 112	8 x 66	13 x 65	13 x 90	11 x 66	11 x 92	15 x 75	15 x 92	16 x 92	15 x 102	13 x 75	13 x 100	16 x 75	16 x 100	17 x 102
max. RCF ²⁾	3,328	3,215	3,215	3,215	3,215	3,215	3,215	3,215	3,215	3,215	3,215	3,215	3,215	3,215	3,215
radius in mm	147	142	142	142	142	142	142	142	142	142	142	142	142	142	142
Adapter															
boring Ø x L in mm	57 x 77	13.5 x 60	13.5 x 60	13.5 x 60	13.5 x 60	13.5 x 60	17.5 x 60	17.5 x 60	17.5 x 60	17.5 x 60	13.5 x 60	13.5 x 60	17.5 x 60	17.5 x 60	17.5 x 74
vessels per rotor	4	28	28	28	28	28	20	20	20	20	28	28	20	20	12
Cat. No.	-	1589	1589	1589	1589	1589	1588	1588	1588	1588	1589	1589	1588	1588	1591

	Nunc [®]	tubes with screw cap													0534 ⁶⁾
Vessels															
capacity in ml	11	15	15	30	50	12	25	30	50	10	30	50	85	94	30
Ø x L in mm	16 x 110	17 x 120	17 x 120	25 x 110	30 x 115	17 x 100	25 x 90	15 x 110	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102	44 x 105
max. RCF ²⁾	3,260	3,328	3,328	3,328	3,328	3,260	3,328	3,328	3,328	3,215	3,260	3,260	3,260	3,260	3,192
radius in mm	144	147	147	147	147	144	147	147	147	142	144	144	144	144	141
Adapter															
boring Ø x L in mm	17.5 x 74	17 x 77	17 x 77	26 x 77	30 x 77	17.5 x 74	26 x 65	26 x 65	30 x 77	16.5 x 60	26 x 74	29 x 74	38.5 x 74	38.5 x 74	45 x 71
vessels per rotor	16	8	12	4	4	16	4	4	4	20	4	4	4	4	4
Cat. No.	1581	1577	1595	1578	1579	1581	1582	1582	1583	1584	1585	1586	1575	1575	1587

Swing-out rotor, 4-place | 1554

	
Rotor	
max. RPM max. RCF	4,500 min ⁻¹ 3,328
max. capacity	4 x 50 ml
run-up run-down, braked in sec	28 31
angle max. noise level	90° 58 dB (A)
temperature in °C ¹⁾	-8
Cat. No.	1554

	
Bucket	
Cat. No.	1559



	tubes ²⁾						blood collection / urine vessels								
Vessels															
capacity in ml	5	6	7	8	9	15	2.6 – 3.4	2.7 – 3	4 – 5.5	4.5 – 5	4.9	9 – 10	10	1.6 – 5	4 – 7
Ø x L in mm	12x75	12x82	12x100	16x125	14x100	17x100	13x65	11x66	15x75	11x92	13x90	16 x 92	15 x 102	13x75	13x100
max. RCF ²⁾	3.215	3.215	3.215	3.328	3.260	3.260	3.215	3.215	3.215	3.215	3.215	3.260	3.260	3.215	3.215
radius in mm	142	142	142	147	144	144	142	142	142	142	142	144	144	142	142
Adapter															
boring Ø x L in mm	13.4x57.5	13.4x57.5	13.4x57.5	16.4x82	17.5x81	17.5x81	13.4x57.5	13.4x57.5	17.5x81	13.4x57.5	13.4x57.5	17.5x81	17.5x81	13.4x57.5	13.4x57.5
vessels per rotor	20	20	20	16	16	16	20	20	16	20	20	16	16	20	20
Cat. No.	1486	1486	1486	1488	1482A	1482A	1486	1486	1482A	1486	1486	1482A	1482A	1486	1486

	blood- / urine vessels			tubes with screw cap			
Vessels							
capacity in ml	4 – 7	8.5 – 10	12	15	50	12	50
Ø x L in mm	16x75	16x100	17x102	17x120	29 x 115	17x100	29x115
max. RCF ²⁾	3,215	3,260	3,147	3,351	3,305	3,260	3,305
radius in mm	142	144	139	148	146	144	146
Adapter							
boring Ø x L in mm	17.5x81	17.5x81	17.5x74	17x100	30x98	17.5x81	30x98
vessels per rotor	16	16	12	16	4	16	4
Cat. No.	1482A	1482A	1487	1483A	1484	1482A	1484 ⁴⁾

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 3.2) When using these tubes, bucket 1560 cannot be closed with lid 1561.
- 4) Please remove the spacer.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2-020.
- 6) A rubber stopper for closing the tube for agitating or mixing is available under Cat. No. 0535. The tube may not be centrifuged with the stopper.
- 14) With the E3922 add-on kit and the 1561 lid, the 1565 carrier can be converted at a later time to a 1560 carrier with single-hand clamp lock.

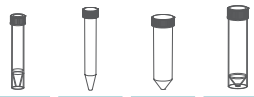
— Swing-out rotor, 4-place | 1554

	
Rotor	
max. RPM max. RCF	4,500 min ⁻¹ 3,260
max. capacity	8 x 50 ml
run-up run-down, braked in sec	28 31
angle max. noise level	90° 58 dB (A)
temperature in °C ¹⁾	-8
Cat. No.	1554



	
Bucket	
Cat. No.	1563



tubes with screw cap				
				
Vessels				
capacity in ml	12	15	50	50
Ø x L in mm	17 x 100	17 x 120	29 x 115	29 x 115
max. RCF ²⁾	3,260	3,260	3,260	3,260
radius in mm	144	144	144	144
+ E 2109 + E2110-A				
				
Adapter				
boring Ø x L in mm	17 x 87	17 x 87	30 x 87	30 x 87
vessels per rotor	8	8	8	8
Cat. No.	1592	1592	-	-

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Swing-out rotor, 4-place | 1494

	
Rotor	
max. RPM max. RCF	5,000 min ⁻¹ 4,193
max. capacity	4 x 100 ml
run-up run-down, braked in sec	30 32
angle max. noise level	90° 56 dB (A)
temperature in °C ¹⁾	-10
Cat. No.	1494

Bucket	
Cat. No.	1425



	microliter tubes		Rhesus	tubes ²⁾										cyto chambers
Vessels														
capacity in ml	1.5	2.0	1	3	5	6	7	9	15	25	50	100	1–8	
Ø x L in mm	11x38	11x38	6 x 45	10 x 60	12/18x75	12x82	12x100	14x100	17x100	24x100	34x100	44x100	simple / multiple	
max. RCF ²⁾	3,885	3,885	3,969	3,913	3,913	3,913	3,913	3,913	3,913	3,913	3,913	3,801	2,879	
radius in mm	139	139	142	140	140	140	140	140	140	140	140	136	103	
Adapter														
boring Ø x L in mm	11.2x38	11.2x38	6.5x34	10.5x40	13.4x50	12.5x60	12.5x60	17.5x84	17.5x84	25.5x84	35.5x84	45.5x80	-	
vessels per rotor	36	36	144	56	28	48	48	28	28	8	4	4	4	
Cat. No.	1444	1444	1432	1433	1438	1434	1434	1431	1431	1435	1436	1437	1452	

	blood collection / urine vessels											-
Vessels												
capacity in ml	2.6 - 3.4	2.7 - 3	4 - 5.5	4.5 - 5	4.9	7.5 - 8.2	9 - 10	1.6 - 5	4 - 7	4 - 7	8.5 - 10	50
Ø x L in mm	13 x 65	11 x 66	15 x 75	11 x 92	13 x 90	15 x 92	16 x 92	13 x 75	13 x 100	16 x 75	16 x 100	29 x 115
max. RCF ²⁾	3,913	3,913	3,913	3,913	3,913	3,913	3,913	3,913	3,913	3,913	3,913	4,081
radius in mm	140	140	140	140	140	140	140	140	140	140	140	146
Adapter												
boring Ø x L in mm	13.4 x 50	13.4 x 50	16.5 x 50	13.4 x 50	13.4 x 50	16.5 x 50	17 x 45	13.4 x 50	13.4 x 50	16.5 x 50	16.5 x 50	30 x 90
vessels per rotor	28	28	28	28	28	28	16	28	28	28	28	4
Cat. No.	1438	1438	1441	1438	1438	1441	1439	1438	1438	1441	1441	1443

CYTO

Cyto system available for this model.
More information on [page 184](#)

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Swing-out rotor, 4-place | 1494

Rotor	
max. RPM max. RCF	5,000 min ⁻¹ 4,109
max. capacity	4 x 50 ml
run-up run-down, braked in sec	30 32
angle max. noise level	90° 54 dB (A)
temperature in °C ¹⁾	-7
Cat. No.	1494

Bucket	
Lid	1421
Cat. No.	1427



	microliter tubes		Rhesus	tubes ²⁾								blood collection / urine vessels			
Vessels															
capacity in ml	1.5	2.0	1	3	5	6	7	9	15	25	50	1.1–1.4	2.6–2.9	2.7–3	4–5.5
Ø x L in mm	11 x 38	11 x 38	6 x 45	10 x 60	12/13 x 75	12 x 82	12 x 100	14 x 100	17 x 100	24 x 100	34 x 100	8 x 66	13 x 65	11 x 66	15 x 75
max. RCF ²⁾	4,109	4,109	4,081	4,053	4,025	4,053	3,941	3,941	3,941	3,941	3,941	4,109	4,025	4,053	4,109
radius in mm	147	147	146	145	144	145	141	141	141	141	141	147	144	145	147
Adapter															
boring Ø x L in mm	11.5 x 38	11.5 x 38	6.5 x 23	10.5 x 23	13.4 x 58	12.5 x 42	12.4 x 82.5	15 x 69.5	17.8 x 82.5	25.5 x 82.5	35.5 x 82.5	9 x 41	13.4 x 58	12.5 x 42	15.6 x 41
vessels per rotor	36	36	120	48	32	48	48	24	24	8	4	48	32	48	20
Cat. No.	5277	5277	1357	1327	1732	5229	5230	5237	5231	5232	5233	5278	1732	5229	5279

	blood collection / urine vessels								tubes with screw cap					
Vessels														
capacity in ml	4.5-5	4.9	7.5-8.2	9-10	1.6-5	4-7	4-7	8.5-10	15	50	25	30	50	50
Ø x L in mm	11 x 92	13 x 90	15 x 92	16 x 92	13 x 75	13 x 100	16 x 75	16 x 100	17 x 120	29 x 115	25 x 90	25 x 110	34 x 100	34 x 100
max. RCF ²⁾	3,941	4,025	4,109	3,969	4,025	4,025	3,969	3,941	4,165	4,053	3,565	4,025	3,941	3,941
radius in mm	141	144	147	142	144	144	142	141	145	145	142	144	141	141
Adapter														
boring Ø x L in mm	12.4 x 82.5	13.4 x 58	15.6 x 41	17 x 66	13.4 x 58	13.4 x 58	17 x 66	17.8 x 82.5	17 x 90	30 x 90	25.5 x 72	25.5 x 85	35.5 x 82.5	35.5 x 82.5
vessels per rotor	48	32	20	20	32	32	20	24	4	4	8	4	4	4
Cat. No.	5230	1732	5279	5271 ⁴⁾	1732	1732	5271 ⁴⁾	5231	5275	5276	1731	5272	5233 ⁴⁾	5233 ⁴⁾

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

3.1) When using these tubes, carrier 1427 cannot be closed with lid 1421.

4) Please remove the spacer.

Swing-out rotor, 4-place | 1494



Rotor

max. RPM max. RCF	5.000 min ⁻¹ 4.193
max. capacity	4 x 100 ml
run-up run-down, braked in sec	30 32
angle max. noise level	90° 58 dB (A)
temperature in °C ¹⁾	-10
Cat. No.	1494



Bucket

Lid bioseal ⁵⁾	1492
Cat. No.	1495



Vessels

capacity in ml	0.5	1.5	2.0	1	3	5	6	7	9	15	25	50	94	100
Ø x L in mm	10.7x46	11x38	11x38	6 x 45	10 x 60	12/13x75	12x82	12x100	14x100	17x100	24x100	34x100	38x102	44x100
max. RCF ²⁾	3,745	3,857	3,857	4,081	4,137	4,025	4,025	4,025	3,997	3,997	3,829	3,801	4,109	4,025
radius in mm	134	138	138	145	148	144	144	144	143	143	137	136	147	144



Adapter

boring Ø x L in mm	11.2x38	11.2x38	11.2x38	6.5x34	10.5x40	13.4x45	13.4x45	13.4x45	17.6x89	17.6x89	25.2x77	35.2x77	38.5x92	45.6x98
vessels per rotor	20	20	20	108	36	20	20	20	16	16	4	4	4	4
Cat. No.	1351	1351	1351	1339	1343	1383	1383	1383	1329	1329	1330	1331	1396	0761

blood collection / urine vessels

Vessels

capacity in ml	1.1 – 1.4	2.7 – 3	4.5 – 5	2.6 – 2.9	4.9	4 – 5.5	7.5 – 8.2	9 – 10	10	1.6 – 7	1.6 – 7	4 – 10	4 – 10
Ø x L in mm	8 x 66	11 x 66	11 x 92	13 x 65	13 x 90	15 x 75	15 x 92	16 x 92	15 x 102	13 x 75	13 x 100	16 x 75	16 x 100
max. RCF ²⁾	4,053	4,025	4,025	4,025	4,025	4,053	4,053	3,997	4,193	4,025	4,025	4,025	4,025
radius in mm	145	144	144	144	144	145	145	143	150	144	144	144	144



Adapter

boring Ø x L in mm	9x47	13.4x45	13.4x45	13.4x45	13.4x45	15.6x47	15.6x47	17.6x89	17.6x89	13.4x45	13.4x45	16.5x52	16.5x52
vessels per rotor	28	20	20	20	20	16	16	16	16	20	20	16	16
Cat. No.	1457	1383	1383	1383	1383	1459	1459	1329	1329 ⁴⁾	1383	1383	1348	1348

tubes with screw cap

Vessels

capacity in ml	15	30	50	12	25	50	10	30	50	85	30
Ø x L in mm	17 x 120	25 x 110	29 x 115	17 x 100	25 x 90	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	44 x 105
max. RCF ²⁾	4,193	4,193	4,193	4,193	3,689	4,193	4,025	3,857	4,137	4,109	3,997
radius in mm	150	150	150	150	132	150	144	138	148	147	143



Adapter

boring Ø x L in mm	17x90	26x80	30x90	17x80	26x72	29.5x80	16.5x52	26x83	29x93	38.5x92	45.9x98
vessels per rotor	4	4	4	4	4	4	16	4	4	4	4
Cat. No.	1347	1365	1384	6311	1363	6318	1348	4417	4416	1396	0765

0534 ⁶⁾
chrome
bath tube

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000. When using these tubes, bucket 1495 cannot be closed with lid 1492.
- Please remove the spacer.
- Tested by the TÜV in conformity with DIN EN 61010. section 2-020.
- A rubber stopper for closing the tube for agitating or mixing is available under Cat. No. 0535. The tube may not be centrifuged with the stopper.

— Swing-out rotor, 4-place | 1624



Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,665
max. capacity	4 x 50 ml
run-up run-down, braked in sec	20 25
angle	90°
Cat. No.	1624



	tubes ²⁾												cyto chambers
Vessels													
capacity in ml	5	5	6	7	9	9	15	15	20	25	45	50	1–8
Ø x L in mm	12 x 75	12 x 75	12 x 82	12 x 100	14 x 100	14 x 100	17 x 100	17 x 100	21 x 100	24 x 100	31 x 100	34 x 100	simple / multiple
max. RCF ²⁾	2,057	2,164	2,308	2,308	2,308	2,415	2,308	2,415	2,361	2,451	2,361	2,451	1,646
radius in mm	115	121	129	129	129	135	129	137	132	137	132	137	92
temperature in °C ¹⁾	-17	-17	-17	-17	-17	-15	-17	-15	-15	-15	-15	-15	-16
Carrier													
boring Ø x L in mm	12 x 75	13.5 x 65	12.5 x 71.5	14.6 x 74	14.6 x 78	17.6 x 71.5	17.6 x 78	21.5 x 74	26 x 78	32 x 74	35 x 78	-	-
vessels per rotor	16	68	16	16	20	40	16	28	8	8	4	4	4
Cat. No.	1369-91	1372	1369-92	1369-92	1370	1741	1369	1742	1346	1745	1345	1746	1660

	blood collection / urine vessels										-
Vessels											
capacity in ml	1.1 – 1.4	2.6 – 3.4	4.5 – 5	4.9	1.6 – 5	4 – 7	4 – 7	4 – 7	8.5 – 10	30	
Ø x L in mm	8 x 66	13 x 65	15 x 75	13 x 90	13 x 75	16 x 75	13 x 100	13 x 100	16 x 100	26 x 95	
max. RCF ²⁾	2,415	2,325	2,325	2,451	2,325	2,325	2,361	2,451	2,308	2,451	
radius in mm	135	130	130	137	130	130	132	137	129	137	
temperature in °C ¹⁾	-15	-15	-15	-15	-15	-15	-15	-15	-17	-15	
Carrier											
boring Ø x L in mm	14.6 x 78	17.6 x 78	17.6 x 78	14.6 x 78	17.6 x 78	17.6 x 78	14.6 x 74	13.5 x 78	17.6 x 71.5	26 x 78	
vessels per rotor	40	28	28	40	28	28	20	28	16	8	
Cat. No.	1741	1742	1742	1741	1742	1742	1370 ⁴⁾	1739	1369 ⁴⁾	1745	

CYTO

For more information about our Cyto accessory, see [page 184](#)

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- Please remove spacer.
- Tested by the TÜV in conformity with DIN EN 61010, section 2-020.
- Packed in units of 10 pieces.
- This combination permits no Vacutainers made of glass.

— Swing-out rotor, 4-place | 1624

	
Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 1,968
max. capacity	48 x 4 ml
run-up run-down, braked in sec	22 25
angle max. noise level	90° 48 dB (A)
temperature in °C	-15
Cat. No.	1624



Bucket	
	
Cat. No.	1366

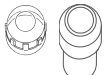


	microliter tubes	Rhesus	tubes ²⁾	
				
Vessels				
capacity in ml	1.5	2.0	1	4
Ø x L in mm	11 x 38	11 x 38	6 x 45	12 x 60
max. RCF ²⁾	1,968	1,968	1,950	1,932
radius in mm	110	110	109	108
				
				
Adapter				
boring Ø x L in mm	11.5 x 38	11.5 x 38	6.5 x 23	12.5 x 44
vessels per rotor	36	36	120	48
Cat. No.	5277	5277	1357	1326

— Swing-out rotor, 4-place | 1624

	
Rotor	
max. RPM max. RCF ²⁾	4,000 min ⁻¹ 2,665
max. capacity	4 x 100 ml
run-up run-down, braked in sec	20 25
angle max. noise level	90° 58 dB (A)
temperature in °C	-15
Cat. No.	1624



Bucket	
	
Lid bioseal ⁵⁾	1492
Cat. No.	1481



	Pediatric	microliter tubes	Rhesus	tubes ²⁾											
Vessels															
capacity in ml	0.5	1.5	2.0	1	3	4	5	6	7	9	15	25	50	85	100
Ø x L in mm	10.7 x 46	11 x 38	11 x 38	6 x 45	10 x 60	10 x 88	12 x 75	12 x 82	12 x 100	14 x 100	17 x 100	24 x 100	34 x 100	38 x 106	44 x 100
max. RCF ²⁾	2,379	2,451	2,451	2,594	2,630	2,630	2,558	2,558	2,558	2,540	2,540	2,433	2,415	2,612	2,558
radius in mm	133	137	137	145	147	131	143	143	143	142	142	136	135	146	143
+															
Adapter															
boring Ø x L in mm	11.2 x 38	11.2 x 38	11.2 x 38	6.5 x 34	10.5 x 43	13.4 x 45	13.4 x 45	13.4 x 45	13.4 x 45	17.6 x 89	17.6 x 89	25.2 x 77	35.2 x 75	38.5 x 92	45.9 x 98
vessels per rotor	20	20	20	108	36	20	20	20	20	16	16	4	4	4	4
Cat. No.	1351	1351	1351	1339	1343	1383	1383	1383	1383	1329	1329	1330	1331	1396	0761

Swing-out rotor, 4-place | 1624



Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,665
max. capacity	4 x 100 ml
run-up run-down, braked in sec	20 25
angle max. noise level	90° 58 dB (A)
temperature in °C	-15
Cat. No.	1624



Bucket

Lid bioseal ⁵⁾	1492
Cat. No.	1481



Vessels

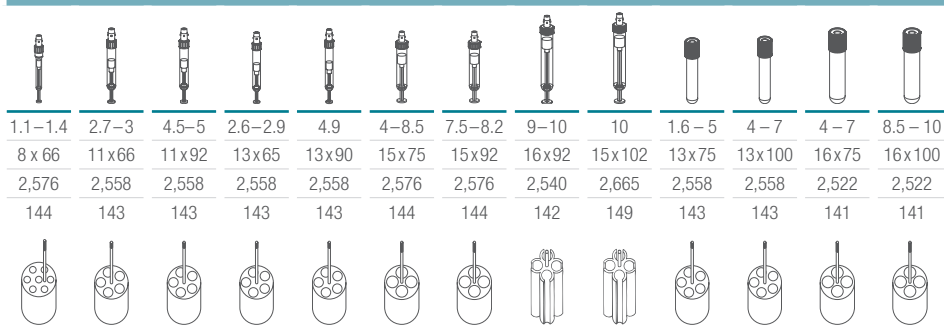
	1.1–1.4	2.7–3	4.5–5	2.6–2.9	4.9	4–8.5	7.5–8.2	9–10	10	1.6–5	4–7	4–7	8.5–10
capacity in ml	1.1–1.4	2.7–3	4.5–5	2.6–2.9	4.9	4–8.5	7.5–8.2	9–10	10	1.6–5	4–7	4–7	8.5–10
Ø x L in mm	8 x 66	11 x 66	11 x 92	13 x 65	13 x 90	15 x 75	15 x 92	16 x 92	15 x 102	13 x 75	13 x 100	16 x 75	16 x 100
max. RCF ²⁾	2,576	2,558	2,558	2,558	2,558	2,576	2,576	2,540	2,665	2,558	2,558	2,522	2,522
radius in mm	144	143	143	143	143	144	144	142	149	143	143	141	141



Adapter

	9x47	13.4x45	13.4x45	13.4x45	13.4x45	15.6x47	15.6x47	17.6x89	17.6x89	13.4x45	13.4x45	16.5x52	16.5x52
boring Ø x L in mm	9x47	13.4x45	13.4x45	13.4x45	13.4x45	15.6x47	15.6x47	17.6x89	17.6x89	13.4x45	13.4x45	16.5x52	16.5x52
vessels per rotor	28	20	20	20	20	16	16	16	16	20	20	16	16
Cat. No.	1457	1383	1383	1383	1383	1459	1459	1329	1329⁴⁾	1383	1383	1348	1348

blood collection / urine vessels



Vessels

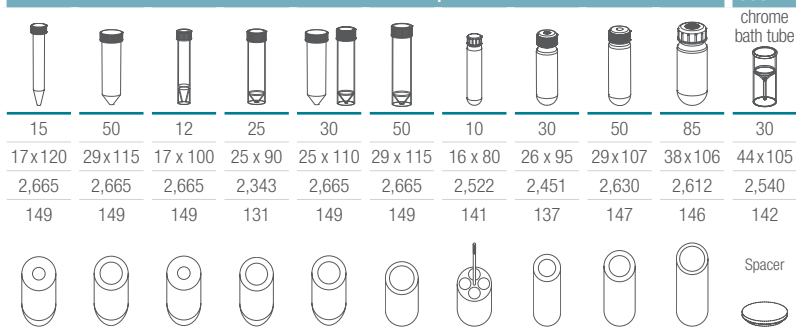
	15	50	12	25	30	50	10	30	50	85	30
capacity in ml	15	50	12	25	30	50	10	30	50	85	30
Ø x L in mm	17 x 120	29 x 115	17 x 100	25 x 90	25 x 110	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	44 x 105
max. RCF ²⁾	2,665	2,665	2,665	2,343	2,665	2,665	2,522	2,451	2,630	2,612	2,540
radius in mm	149	149	149	131	149	149	141	137	147	146	142



Adapter

	17x90	30x90	17x80	26x72	26x80	29.5x80	16.5x52	26x83	29x93	38.5x92	45.9x98
boring Ø x L in mm	17x90	30x90	17x80	26x72	26x80	29.5x80	16.5x52	26x83	29x93	38.5x92	45.9x98
vessels per rotor	4	4	4	4	4	4	16	4	4	4	4
Cat. No.	1347	1384	6311	1363	1365	6318	1348	4417	4416	1396	0765

tubes with screw cap



0534⁶⁾
chrome
bath tube

Spacer

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- When using these tubes, bucket 1752 or 5051 cannot be closed with lid 1751 or 5053.
- Please remove the spacer.
- Tested by the TÜV in conformity with DIN EN 61010, section 2-020.
- A rubber stopper for closing the tube for agitating or mixing is available under Cat. No. 0535. The tube may not be centrifuged with the stopper.

Swing-out rotor, 4-place | 1324



Rotor

max. RPM max. RCF	4,500 min ⁻¹ 3,328
max. capacity	4 x 100 ml
run-up run-down, braked in sec	27 30
angle max. noise level	90° 58 dB (A)
temperature in °C	-6
Cat. No.	1324



Bucket

Lid bioseal ⁵⁾	1492
Cat. No.	1490



Vessels

capacity in ml	0.5	1.5	2.0	1	3	4	5	6	7	9	15	25	50	85	100
Ø x L in mm	10.7x46	11x38	11x38	6x45	10x60	10x88	12x75	12x82	12x100	14x100	17x100	24x100	34x100	38x106	44x100
max. RCF ²⁾	2,966	3,056	3,056	3,237	3,283	3,283	3,192	3,192	3,192	3,170	3,170	3,034	3,011	3,260	3,192
radius in mm	131	135	135	143	145	145	141	141	141	140	140	134	133	144	141



Adapter

boring Ø x L in mm	11.2x38	11.2x38	11.2x38	6.5x34	10.5x43	10.5x43	13.4x45	13.4x45	13.4x45	17.6x89	17.6x89	25.2x77	35.2x77	38.5x92	45.9x100.5
vessels per rotor	20	20	20	108	36	36	20	20	20	16	16	4	4	4	4
Cat. No.	1351	1351	1351	1339	1343	1343	1383	1383	1383	1329	1329	1330	1331	1396	0761

Vessels

	blood collection / urine vessels													-
capacity in ml	1.1–1.4	2.6–2.9	4.9	2.7–3	4.5–5	4–5.5	7.5–8.2	9–10	10	1.6–5	4–7	4–7	8.5–10	15
Ø x L in mm	8 x 66	13x65	13x90	11x66	11x92	15x75	15x92	16x92	15x102	13x75	13x100	16x75	16x100	17x120
max. RCF ²⁾	3,215	3,192	3,192	3,192	3,192	3,215	3,215	3,170	3,328	3,192	3,192	3,147	3,147	3,328
radius in mm	142	141	141	141	141	142	142	140	147	141	141	139	139	147



Adapter

boring Ø x L in mm	9x47	13.4x45	13.4x45	13.4x45	13.4x45	15.6x47	15.6x47	17.6x89	17.6x89	13.4x45	13.4x45	16.5x52	16.5x52	17x90
vessels per rotor	28	20	20	20	20	16	16	16	16	20	20	16	16	4
Cat. No.	1457	1383	1383	1383	1383	1459	1459	1329	1329⁴⁾	1383	1383	1348	1348	1347

Vessels

	tubes with screw cap											- 6)
Kapazität in ml	15	30	50	12	25	30	50	10	30	50	85	30
Ø x L in mm	17x120	25 x 110	29 x 115	17 x 100	25 x 90	25 x 110	29 x 115	16 x 80	26 x 95	29x107	38x106	44 x 105
max. RCF ²⁾	3,328	3,328	3,328	3,328	2,920	3,328	3,328	3,147	3,056	3,283	3,260	3,170
radius in mm	147	147	147	147	129	147	147	139	135	145	144	140



Adapter

boring Ø x L in mm	17 x 107	26x80	30x90	17x80	26x72	26x80	29.5x80	16,5x52	26x83	29x93	38.5x92	45.9x100.5
vessels per rotor	12	4	4	4	4	4	4	16	4	4	4	4
Cat. No.	1356	1365	1384	6311	1363	1365	6318	1348	4417	4416	1396	0765

— Swing-out rotor, 4-place | 1324



Rotor

max. RPM max. RCF	4,500 min ¹ 3,305
max. capacity	4 x 50 ml
run-up run-down, braked in sec	27 30
angle max. noise level	90° 54 dB (A)
temperature in °C	-6
Cat. No.	1324



Bucket

Cat. No.



1398



Vessels

	tubes ²⁾		blood collection / urine vessels						tubes with screw cap			
capacity in ml	9	15	4-4,5	9-10	10	4-7	8,5-10	15	50	12	50	
Ø x L in mm	14x100	17x100	15x75	16x92	15x102	16x75	16x100	17 x 120	29 x 115	17 x 100	29 x 115	
max. RCF ²⁾	3,192	3,192	2,875	3,192	3,192	3,034	3,034	3,305	3,260	3,192	3,260	
radius in mm	141	141	127	141	141	134	134	146	144	141	144	



Adapter

boring Ø x L in mm	17.5x81	17.5x81	17.5x81	17.5x81	17.5x81	17.5x81	17.5x81	17.5x81	17x100	30x98	17.5x81	30x98
vessels per rotor	16	16	16	16	16	16	16	16	16	4	16	4
Cat. No.	1482A	1482A	1482A	1482A	1482A	1482A	1482A	1482A	1483A	1484	1482A	1484⁴⁾

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

4) Please remove spacer.

— Swing-out rotor, 8-place | 1611



Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,415
max. capacity	8 x 15 ml
run-up run-down, braked in sec	20 20
angle max. noise level	90° 48 dB (A)
temperature in °C ¹⁾	-16
Cat. No.	1611



Vessels

	tubes ²⁾					blood collection / urine vessels							
capacity in ml	5	6	7	10	15	2.6 – 2.9	2.7 – 3	4 – 5.5	4.5 – 5	7.5 – 8.2	1.6 – 5	4 – 7	4 – 7
Ø x L in mm	12/13 x 75	12 x 82	12 x 100	13 x 100	17 x 100	13 x 65	11 x 66	15 x 75	11 x 92	15 x 92	13 x 75	13 x 100	16 x 75
max. RCF ²⁾	1,914	1,914	2,415	2,415	2,415	1,914	1,914	1,914	2,415	2,415	1,914	2,415	1,914
radius in mm	107	107	135	135	135	107	107	107	135	135	107	135	107



Bucket

boring Ø x L in mm	13 x 53	13 x 53	13.2 x 81	13.2 x 81	17.5 x 81	13 x 53	13 x 53	17.5 x 53	13.2 x 81	17.5 x 81	13 x 53	13.2 x 81	17.5 x 53
vessels per rotor	8	8	8	8	8	8	8	8	8	8	8	8	8
Cat. No.	1131-A	1131-A	1643	1643	1644	1131-A	1131-A	1132-A	1643	1644	1131-A	1643	1132-A

— Swing-out rotor, 12-place | 1628



Rotor

max. RPM max. RCF ²⁾	5,000 min ⁻¹ 4,193
max. capacity	12 x 15 ml
run-up run-down, braked in sec	16 16
angle max. noise level	55° / 60° / 80° 54 dB (A)
Cat. No.	1628



Vessels

	tubes ²⁾			blood collection / urine vessels							
capacity in ml	5	10	15	2.6 – 2.9	2.7 – 3	4 – 5.5	7.5 – 8.2	1.6 – 5	4 – 7	8.5 – 10	
Ø x L in mm	12/13 x 75	17 x 100	17 x 100	13 x 65	11 x 66	15 x 75	15 x 92	13 x 75	16 x 75	16 x 100	
max. RCF ²⁾	3,466	3,522	4,193	3,466	3,466	3,522	4,193	3,466	3,522	4,193	
radius in mm	124	126	150	124	124	126	150	124	126	150	
temperature in °C ¹⁾	-10	-10	-10	-15	-15	-15	-10	-15	-15	-10	



Bucket

boring Ø x L in mm	13.2 x 53	17.5 x 53	17.5 x 79	13.2 x 53	13.2 x 53	17.5 x 53	17.5 x 79	13.2 x 53	17.5 x 53	17.5 x 79
vessels per rotor	12	12	12	12	12	12	12	12	12	12
Cat. No.	1127-A	1122	1621	1127-A	1127-A	1122	1621	1127-A	1122	1621

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

— Swing-out rotor, 8-place | 1617

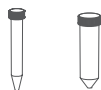


Rotor

max. RPM max. RCF	5,000 min ⁻¹ 3,857
max. capacity	8 x 50 ml
run-up run-down, braked in sec	20 19
angle max. noise level	45° 50 dB (A)
temperature in °C ¹⁾	-10

Cat. No. 1617

tubes with
screw cap



Vessels

capacity in ml	15	50
Ø x L in mm	17x120	29x115
max. RCF ²⁾	3,857	3,857
radius in mm	138	138



Adapter

boring Ø x L in mm	17x84	30x94.5
vessels per rotor	8	8

Cat. No. 1462-A -



— Swing-out rotor, 6-place | 1619

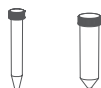


Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,701
max. capacity	6 x 50 ml
run-up run-down, braked in sec	20 22
angle max. noise level	90° 50 dB (A)
temperature in °C ¹⁾	-15

Cat. No. 1619

tubes with
screw cap



Vessels

capacity in ml	15	50
Ø x L in mm	17x120	29x115
max. RCF ²⁾	2,701	2,701
radius in mm	151	151



Adapter

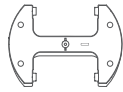
boring Ø x L in mm	17x84	30x87.5
vessels per rotor	6	6

Cat. No. 1462-A -



- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Swing-out rotor, 2-place | 1460



Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,218
max. capacity	10 plates
run-up run-down, braked in sec	40 45
angle max. noise level	90° 55 dB (A)
temperature in °C ¹⁾	-6
Cat. No.	1460



	MTP	CP	DWP	MS	PCR plate, 96 wells	PCR strips
Vessels						
capacity in ml	-	-	-	-	-	0.2
W x D x H in mm	128x86x15	128x86x22	128x86x44.5	128x86x46	124x82x20	-
max. RCF ²⁾	2,433	2,433	2,433	2,433	2,433	2,433
radius in mm	136	136	136	136	136	136
+						
Bucket						
boring Ø x L in mm	-	-	-	-	-	-
vessels per rotor	10	8	2	2	2	24 x 8
Cat. No.	1453-A	1453-A	1453-A	1453-A	1453-A + 1485	1453-A + 1485

Swing-out rotor, 24-place | 1555



Rotor

max. RPM max. RCF	13,000 min ⁻¹ 18,327
max. capacity	24x2 ml
run-up run-down, braked in sec	36 31
angle	90°
temperature in °C ¹⁾	3
Cat. No.	1555

Lid bioseal[®],
phenol-resistant

Cat. No.



INCLUSIVE



	microliter tubes					
Vessels						
capacity in ml	0.2	0.4	0.5	0.8	1.5	2
Ø x L in mm	6x18	6x45	8x30	8x45	11x38	11x38
max. RCF ²⁾	18,327	18,327	18,327	18,327	18,327	18,327
radius in mm	97	97	97	97	97	97
+						
Adapter						
boring Ø x L in mm	6x40	6x40	8x40	8x40	10.2x19.3	11.5x38.5
vessels per rotor	24	24	24	24	24	24
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 5) Tested by TÜV in conformity with DIN EN 61010, section 2-020.
- 7) For centrifugation at high speeds, we recommend to use conical, phenol-resistant adapters. Cat. No. 2031.

Angle rotor, 24-place | 1552

Rotor		+	Lid bioseal⁵⁾, phenol-resistant		INCLUSIVE	
	max. RPM max. RCF					16,000 min ⁻¹ 24,900
	max. capacity					24 x 2 ml
	run-up run-down, braked in sec					30 29
	angle max. noise level					50° 58 dB (A)
	temperature in °C ¹⁾					2
Cat. No.	1552					

	microliter tubes						Pediatric
							
Vessels							
capacity in ml	0.2	0.4	0.5	0.8	1.5	2	0.5
Ø x L in mm	6x18	6x45	8x30	8x45	11x38	11x38	10,7x46
max. RCF ²⁾	24,900	24,900	24,900	24,900	24,900	24,900	23,755
radius in mm	87	87	87	87	87	87	83
+							
Adapter							
boring Ø x L in mm	6x40	6x40	8x40	8x40	10.2x19.3	11.2x42.6	11.2x39
vessels per rotor	24	24	24	24	24	24	12
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	0788¹⁷⁾

Angle rotor, 30-place | 1553

Rotor		+	Lid bioseal[®], phenol-resistant		INCLUSIVE	
	max. RPM max. RCF					14,150 min ⁻¹ 21,713
	max. capacity					30 x 2 ml
	run-up run-down, braked in sec					35 32
	angle					45°
	temperature in °C ¹⁾					-1
Cat. No.	1553					

	microliter tubes						Pediatric
							
Vessels							
capacity in ml	0.2	0.4	0.5	0.8	1.5	2	0.5
Ø x L in mm	6x18	6x45	8x30	8x45	11x38	11x38	10,7x46
max. RCF ²⁾	21,713	21,713	21,713	21,713	21,713	21,713	20,818
radius in mm	97	97	97	97	97	97	93
+							
Adapter							
boring Ø x L in mm	6x40	6x40	8x40	8x40	10.2x19.3	11.2x40.9	11.2x39
vessels per rotor	30	30	30	30	30	30	15
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	0788¹⁷⁾

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 5) Tested by TÜV in conformity with DIN EN 61010, section 2-020.
- 7) For centrifugation at high speeds, we recommend to use conical, phenol-resistant adapters. Cat. No. 2031.
- 17) Packed in units of 15 pieces.

Angle rotor, 8-place | 1551

	
Rotor	
max. RPM max. RCF	13,000 min ⁻¹ 13,604
max. capacity	8 x PCR-Strips
run-up run-down, braked in sec	36 31
angle max. noise level	45° 58 dB (A)
temperature in °C ¹⁾	-4
Cat. No.	1551



Lid bioseal[®],
phenol-resistant
Cat. No.



INCLUSIVE



- PCR-Strips

	
Vessels	
capacity in ml	0.2 0.2
Ø x L in mm	6x18 -
max. RCF ²⁾	13,604 13,604
radius in mm	64 8x8

Angle rotor, 18-place | 1627

	
Rotor	
max. RPM max. RCF	14,150 min ⁻¹ 22,161
max. capacity	18x5 ml
run-up run-down, braked in sec	35 32
angle	45°
temperature in °C ¹⁾	2
Cat. No.	1627



Lid bioseal[®],
phenol-resistant
Cat. No.



INCLUSIVE



-

	
Vessels	
capacity in ml	5
Ø x L in mm	17x59
max. RCF ²⁾	22,161
radius in mm	18

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

5) Tested by TÜV in conformity with DIN EN 61010, section 2-020.

Angle rotor, 6-place | 1556

Rotor	
max. RPM max. RCF	9.000 min ⁻¹ 10.595
max. capacity	6 x 94 ml
run-up run-down, braked in sec	36 32
angle max. noise level	35° 60 dB (A)
temperature in °C ¹⁾	0
Cat. No.	1556

+

Lid bioseal[®],
phenol-resistant

Cat. No.

INCLUSIVE



	microliter tubes		tubes ²⁾				blood collection / urine vessels				tubes with screw cap				
Vessels															
capacity in ml	1.5	2	15	50	50	85	7.5–8.2	9–10	10	8.5–10	15	50	10	30	50
Ø x L in mm	11 x 38	11 x 38	17 x 100	35 x 105	34 x 100	38 x 101	15 x 92	16 x 92	15 x 102	16 x 100	17 x 120	29 x 115	16 x 80	26 x 95	29 x 107
max. RCF ²⁾	10,324	10,324	10,052	10,414	10,414	10,595	10,052	10,052	10,052	10,052	10,052	10,052	10,414	9,690	10,142
radius in mm	114	114	111	115	115	117	111	111	111	111	111	111	115	107	112
+															
Adapter															
boring Ø x L in mm	11.4 x 39	11.4 x 39	17.5 x 78	35 x 89	35 x 89	-	17.5 x 78	17.5 x 78	17.5 x 78	17.5 x 78	17 x 106	29.8 x 97	16.5 x 72	26 x 85	29 x 92
vessels per rotor	24	24	6	6	6	6	6	6	6	6	6	6	12	6	6
Cat. No.	1449	1449	1478	1463	1463	-	1478	1478	1478	1478	1466	1454	1477	1447	1446

	tubes with screw cap	
Vessels		
capacity in ml	85	94
Ø x L in mm	38 x 106	38 x 102
max. RCF ²⁾	10,595	10,595
radius in mm	117	117

+		
Adapter		
boring Ø x L in mm	-	-
vessels per rotor	6	6
Cat. No.	-	-

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

5) Tested by TÜV in conformity with DIN EN 61010, section 2-020.

Angle rotor, 12-place | 1613



Rotor

max. RPM max. RCF	6,000 min ⁻¹ 4,146
max. capacity	12 x 15 ml
run-up run-down, braked in sec	15 15
angle max. noise level	35° 50 dB (A)
temperature in °C ¹⁾	-16
Cat. No.	1613



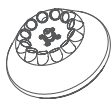
	Pediatric			microliter tubes				tubes ²⁾				blood collection / urine vessels							
Vessels																			
capacity in ml	0.5	1.5	2.0	4	5	6	15	1.1 – 1.4	2.6 – 2.9	2.7 – 3	4.5 – 5	4.9	7.5 – 8.2	9 – 10	10				
Ø x L in mm	10.7 x 46	11 x 38	11 x 38	10 x 88	12/13 x 75	12 x 82	17 x 100	8 x 66	13 x 65	11 x 66	11 x 92	13 x 90	15 x 92	16 x 92	15 x 102				
max. RCF ²⁾	2,777	2,737	2,737	3,502	3,300	3,300	4,146	3,300	3,300	3,300	4,146	4,146	4,146	4,146	4,146				
radius in mm	69	68	68	87	82	82	103	82	82	82	103	103	103	103	103				
Adapter																			
boring Ø x L in mm	11 x 35	11 x 35	11 x 35	11.5 x 67.5	13.5 x 59	13.5 x 59	17.7 x 88	13.5 x 59	13.5 x 59	13.5 x 59	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88				
vessels per rotor	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12				
Cat. No.	2 x 1063-6 (6 pcs.)			6305	1054-A	1054-A	-	1054-A	1054-A	1054-A	-	-	-	-	-				

	blood collection / urine vessels						-	-
Vessels								
capacity in ml	1.6 – 5	4 – 7	8	8.5 – 10	5	15		
Ø x L in mm	13 x 75	13 x 100	16 x 125	16 x 100	17 x 59	17 x 120		
max. RCF ²⁾	3,300	4,146	4,146	4,146	3,180	4,146		
radius in mm	82	103	103	103	79	103		
Adapter								
boring Ø x L in mm	13.5 x 60	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88	17.7 x 88		
vessels per rotor	12	12	6	12	12	6		
Cat. No.	1054-A	-	-	-	-	-		

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Angle rotor, 12-place | 1615



Rotor

max. RPM max. RCF	12,000 min ⁻¹ 16,582
max. capacity	12 x 15 ml
run-up run-down, braked in sec	40 40
angle max. noise level	35° 52 dB (A)
temperature in °C ¹⁾	-2
Cat. No.	1615



	Pediatric	microliter tubes			tubes ²⁾				blood collection / urine vessels						
Vessels															
capacity in ml	0.5	1.5	2.0		4	5	6	15	1.1 - 1.4	2.6 - 2.9	2.7 - 3	4.5 - 5	4.9	7.5 - 10	10
Ø x L in mm	10.7 x 46	11 x 38	11 x 38		10 x 88	12/13 x 75	12 x 82	17 x 100	8 x 66	13 x 65	11 x 66	11 x 92	13 x 90	15/16 x 92	15 x 102
max. RCF ²⁾	11,108	10,947	10,947		14,006	13,201	13,201	16,582	13,201	13,201	13,201	16,582	16,582	16,582	16,582
radius in mm	69	68	68		87	82	82	103	82	82	82	103	103	103	103



Adapter

boring Ø x L in mm	11 x 35	11 x 35	11 x 35		11.5 x 67.5	13.5 x 59	13.5 x 59	17.7 x 88	13.5 x 59	13.5 x 59	13.5 x 59		17.7 x 88	17.7 x 88	17.7 x 88
vessels per rotor	12	12	12		12	12	12	12	12	12	12		12	12	12
Cat. No.	2 x 1063-6 (6 pcs.)				6305	1054-A	1054-A	-	1054-A	1054-A	1054-A	-	-	-	-

	blood collection / urine vessels				-	-
Vessels						
capacity in ml	1.6 – 5	4 – 7	8.5 – 10	8	5	15
Ø x L in mm	13 x 75	13 x 100	16 x 100	16 x 125	17 x 59	17 x 120
max. RCF ²⁾	13,201	16,582	16,582	16,582	12,718	15,455
radius in mm	82	103	103	103	79	96
+						
Adapter						
boring Ø x L in mm	13.5 x 59	17.7 x 88	17.7 x 88	17.7 x 88	17 x 25	17 x 104
vessels per rotor	12	12	12	6	12	6
Cat. No.	1054-A	-	-	-	1064	1647 ²⁵⁾

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

25) Adapter (set), 6-place: For conical 15 ml tubes with screw cap, remove carriers from rotor and replace them with adapters.

Angle rotor, 8-place | 1418

Rotor

max. RPM max. RCF	4,500 min ⁻¹ 3,305
max. capacity	8 x 50 ml
run-up run-down, braked in sec	30 31
angle max. noise level	45° 54 dB (A)
temperature in °C ¹⁾	-5
Cat. No.	1418



Vessels

	tubes ²⁾		blood collection / urine vessels								tubes with screw cap				
capacity in ml	5	15	1.1–1.4	2.6–2.9	2.7–3	9–10	1.6–5	4–7	8.5–10	12	15	50	12	50	50
Ø x L in mm	12/13x75	17x100	8x66	13x65	11x66	16x92	13x75	13x100	16x100	17x102	17x120	29x115	17x100	29x115	29x107
max. RCF ²⁾	2,762	3,215	2,762	2,762	2,762	3,215	2,762	3,215	3,215	3,215	3,283	3,147	3,215	3,147	3,147
radius in mm	122	142	122	122	122	142	122	146	142	142	145	139	142	139	139
	+ 1054-A	+ 0716	+ 1054-A	+ 1054-A	+ 1054-A	+ 0716	+ 1054-A	+ 0716	+ 0716	+ 0716	+ E2109	+ E2110-A	+ 0716		



Carrier

boring Ø x L in mm	17.4x91	17.4x91	17.4x91	17.4x91	17.4x91	17.4x91	17.4x91	17.4x91	17.4x91	17.4x91	17.4x91	30.2x92	17.4x91	30.2x92	30.2x92
vessels per rotor	32	32	32	32	32	32	32	32	32	32	32	8	32	8	8
Cat. No.	1467	1467	1467	1467	1467	1467	1467	1467	1467	1467	1467	1468	1467	1468	1468

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Packages

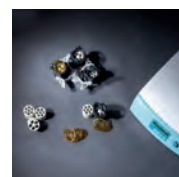
UNIVERSAL 320 BLOOD TUBE PACKAGE 1

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x UNIVERSAL 320 centrifuge	1401	28	1.6 - 7	13 x 90 / 100	5,000	3,913
- 1 x Swing-out rotor, 4-place	1494	28	4 - 10	16 x 75 / 100	5,000	3,913
- 4 x bucket	1425					
- 4 x adapter, 7-place	1438					
- 4 x adapter, 7-place	1441					
1401SET1						



UNIVERSAL 320 BLOOD TUBE PACKAGE 2

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x UNIVERSAL 320 centrifuge	1401	28	1.6 - 7	13 x 90 / 100	4,500	3,215
- 1 x Swing-out rotor, 4-place	1554	20	4 - 10	16 x 75 / 100	4,500	3,215
- 4 x bucket	1560					
- 4 x lid (bioseal)	1561					
- 4 x adapter, 7-place	1589					
- 4 x adapter, 5-place	1588					
1401SET2						



UNIVERSAL 320 CONICAL PACKAGE 3

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x UNIVERSAL 320 centrifuge	1401	16	15	17 x 120	4,500	3,305
- 1 x Swing-out rotor, 4-place	1324	4	50	29 x 115	4,500	3,260
- 4 x bucket	1398					
- 4 x adapter, 4-place (conical)	1483A					
- 4 x adapter, 1-place (conical)	1484					
1401SET3						



UNIVERSAL 320 R CONICAL PACKAGE 1

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x UNIVERSAL 320 R centrifuge	1406	16	15	17 x 120	4,500	3,328
- 1 x Swing-out rotor, 4-place	1554	4	50	30 x 115	4,500	3,328
- 4 x bucket	1560					
- 4 x lid (bioseal)	1561					
- 4 x adapter, 2-place (conical)	1577					
- 4 x adapter, 1-place (conical)	1579					
1406SET1						



UNIVERSAL 320 R BLOOD TUBE PACKAGE 2

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x UNIVERSAL 320 R centrifuge	1406	28	1.6 - 7	13 x 90 / 100	5,000	3,913
- 1 x Swing-out rotor, 4-place	1494	28	4 - 10	16 x 75 / 100	5,000	3,913
- 4 x bucket	1425					
- 4 x adapter, 7-place	1438					
- 4 x adapter, 7-place	1441					
1406SET2						



UNIVERSAL 320 R CONICAL PACKAGE 3

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x UNIVERSAL 320 R centrifuge	1406	20	1.6 - 7	13 x 90 / 100	4,000	2,558
- 1 x Swing-out rotor, 4-place	1324	16	4 - 10	16 x 75 / 100	4,000	2,522
- 4 x bucket	1398					
- 4 x adapter, 4-place (conical)	1483A					
- 4 x adapter, 1-place (conical)	1484					
1406SET3						



UNIVERSAL 320 R BLOOD TUBE PACKAGE 4

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x UNIVERSAL 320 R centrifuge	1406	16	15	17 x 120	4,500	3,305
- 1 x Swing-out rotor, 4-place	1624	4	50	29 x 115	4,500	3,260
- 4 x bucket	1481					
- 4 x lid (bioseal)	1492					
- 4 x adapter, 5-place	1383					
- 4 x adapter, 4-place	1348					
1406SET4						



UNIVERSAL 320 R BLOOD TUBE PACKAGE 5

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x UNIVERSAL 320 R centrifuge	1406	28	1.1 - 7	13 x 90 / 100	4,500	3,215
- 1 x Swing-out rotor, 4-place	1554	20	4 - 10	17 x 100	4,500	3,215
- 4 x bucket	1560					
- 4 x lid (biobio)	1561					
- 4 x adapter, 7-place	1589					
- 4 x adapter, 5-place	1588					
1406SET5						



UNIVERSAL 320 R BLOOD TUBE PACKAGE 6

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x UNIVERSAL 320 R centrifuge	1406	32	1.6 - 7	13 x 90 / 100	5,000	4,025
- 1 x Swing-out rotor, 4-place	1494	24	8.5 - 15	17 x 100	5,000	3,941
- 4 x bucket	1427					
- 4 x lid (bioseal)	1421					
- 4 x adapter, 8-place	1732					
- 4 x adapter, 6-place	5231					
1406SET6						



ROTINA 380 | 380 R

High speed with space saving design

High performance unit supporting a wide array of accessories for multiple applications in just one rotor. Its size and performance make it the ideal benchtop centrifuge for most clinical, research and industrial laboratories. This unit is available with refrigeration and a temperature range from -20 °C to +40 °C (ROTINA 380 R).

Features

- RPM: 50 - 15,000 min⁻¹ – adjustable in increments of 10
- RCF: 50 - 24,400 – adjustable in increments of 1
- Max. capacity: 4 x 290 ml
- Choice of 8 rotors
- IVDR-conform according to regulation (EU) 2017/746
- Max. noise level of 54 dB(A) with rotor 1760
- Easy operation with keypad and control knob
- 98 program memories for more individuality
- 9 individual acceleration and 10 deceleration stages
- Model 380 R coolable from -20 to +40 °C with pre-cooling function

Fields of application

- Hospitals
- Hematological laboratories
- Small blood centers
- Pharmaceutical laboratories
- Food analyzing laboratories
- University / Academic research
- Forensic laboratories
- Paternity testing laboratories
- Environmental testing laboratories
- Cell culture laboratories



Centrifuge packages for the model can be found on [page 109](#)



More information about the control panel can be found on [page 206](#)

CYTO

Cyto system available for this model.
More information on [page 184](#)



ROTINA 380 R



ROTINA 380



according to regulation (EU) 2017/746



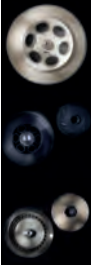
Find out more
about the product.

Technical data

	ROTINA 380 non-refrigerated	ROTINA 380 R refrigerated
voltage *)	200 – 240 V 1 ~	200 – 240 V 1 ~
frequency	50 – 60 Hz	50 – 60 Hz
consumption	650 VA	1,300 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	4 x 290 ml	4 x 290 ml
max. RPM	15,000 min ⁻¹	15,000 min ⁻¹
max. RCF	24,400	24,400
running time	1 – 99 h: 59 min: 59 sec, ∞ continuous run, short cycle mode	1 – 99 h: 59 min: 59 sec, ∞ continuous run, short cycle mode
dimensions (WxDxH)	457x600x418 mm	457x750x418 mm
weight	approx. 51 kg	approx. 81 kg
noise level	54 dB (A) with rotor 1760	54 dB (A) with rotor 1760
temperature control, infinitely variable	-	from -20 to +40 °C
Cat. No.	1701	1706
100 – 127 V 1 ~ / 50 – 60 Hz *)	1701-01	1706-01
consumption	700 VA	1,400 VA
emission, immunity	FCC class B	FCC class B
weight	approx. 58.5 kg	approx. 88.5 kg

*) Other voltages on request.

Available rotors

SWING-OUT ROTORS		angle	max. RPM	max. capacity	Cat. No.	page
	Swing-out rotor, 4-place	90°	5,000 min ⁻¹	4x290 ml	1754	100
	Swing-out rotor, 4-place	90°	4,000 min ⁻¹	4x290 ml	1798	102
	Swing-out rotor, 6-place	90°	4,000 min ⁻¹	6x50 ml	1726	104
	Swing-out rotor, 2-place	90°	4,000 min ⁻¹	10 plates	1760	106
	Swing-out rotor, 2-place	90°	5,100 min ⁻¹	10 plates	1770	106
ANGLE ROTORS						
	Angle rotor, 6-place	45°	10,000 l 11,000 min ⁻¹	6x94 ml	1720	107
	Angle rotor, 6-place	45°	10,000 l 11,000 min ⁻¹	6x94 ml	1792	108
	Angle rotor, 30-place	45°	15,000 min ⁻¹	30x2 ml	1789-A	109

Swing-out rotor, 4-place | 1754

Rotor

max. RPM max. RCF	5,000 min ⁻¹ 4,863
max. capacity	4 x 290 ml
run-up run-down, braked in sec	42 27
angle max. noise level	90° 60 dB (A)
temperature in °C ¹⁾	0
Cat. No.	1754



Bucket

lid bioseal ⁵⁾	1751
Cat. No.	1752



Vessels

capacity in ml		1.5	2.0	3	4	5	6	7	9	15	20	25	45	50	94	100
Ø x L in mm		11x38	11x38	10x60	12x60	12x75	12x82	12x100	14x100	17x100	21x100	24x100	31x100	34x100	38x106	40x115
max. RCF ²⁾	top / bottom	3 494 / 4 779	3 494 / 4 779	4 779	4 668	4 668	4 668	4 668	4 668	4 668	4 668	4 668	4 668	4 668	4 807	4 640
radius in mm	top / bottom	125 / 171	125 / 171	171	167	167	167	167	167	167	167	167	167	167	172	166



Adapter

boring Ø x L in mm	11.2x39.5	11.2x39.5	11.2x39.5	12.5x56	12.5x56	12.5x56	12.5x56	17.5x62	17.5x62	25.5x81	25.5x81	35.5x81	35.5x81	38.5x80	41 x 97
vessels per rotor	144	144	72	96	96	96	96	52	52	24	24	12	12	8	4
Cat. No.	1761	1761	1761	1762-A	1762-A	1762-A	1762-A	1763-A	1763-A	1764	1764	1765	1765	1777	1767

microliter tubes

tubes ²⁾

Vessels

capacity in ml	100	250	1.1–1.4	2.6–2.9	2.7–3	4.5–5	4.5–5	4.5–5	4.9	4.9	7.5–8.2	9–10	10	1.6–5	4–7
Ø x L in mm	44x100	65 x 115	8 x 66	13 x 65	11x66	15x75	11x92	11x92	13x90	13x90	15x92	16x92	15x102	13 x 75	13 x 100
max. RCF ²⁾	4,640	4,640	4,668	4,668	4,668	4,668	4,668	4,668	4,668	4,668	4,668	4,668	4,668	4,668	4,668
radius in mm	166	166	167	167	167	167	167	167	167	167	167	167	167	167	167



Adapter

boring Ø x L in mm	45 x 87	66 x 104.5	9 x 49	13.5 x 54	12.5 x 56	17.5 x 62	12.5 x 56	13.2 x 72	13.5 x 54	13.2 x 72	17.5 x 62	17.5 x 62	17.5 x 62	13.5 x 54	13.5 x 54
vessels per rotor	4	4	96	64	96	52	96	76	64	76	52	52	52	64	64
Cat. No.	1766	1768	1781	1783-A	1762-A	1763-A	1762-A	1787	1783-A	1787	1763-A	1763-A	1763-A	1783-A	1783-A

tubes ²⁾

blood collection tubes / urine tubes

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

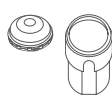
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

5) Tested by TÜV in conformity with DIN EN 61010, section 2-020.

Swing-out rotor, 4-place | 1754

	
Rotor	
max. RPM max. RCF	5,000 min ⁻¹ 4,863
max. capacity	4 x 290 ml
run-up run-down, braked in sec	42 27
angle max. noise level	90° 60 dB (A)
temperature in °C ¹⁾	0
Cat. No.	1754



	
Bucket	
lid bioseal ⁵⁾	1751
Cat. No.	1752



	blood collection tubes / urine tubes					tubes with screw cap									
Vessels															
capacity in ml	4 – 7	4 – 7	8	8.5 – 10	5	15	50	12	25	30	50	50	14	10	30
Ø x L in mm	13x100	16x75	16x125	16x100	17x59	17x120	29 x 115	17x100	25x90	25x110	29x115	29x115	16,5x106	16x80	26x95
max. RCF ²⁾	4,668	4,668	4,668	4,668	4,863	4,863	4,863	4,696	4,528	4,528	4,752	4,752	4,668	4,668	4,807
radius in mm	167	167	167	167	174	174	174	168	162	162	170	170	167	167	172
Adapter															
boring Ø x L in mm	13.2x72	17.5x62	17.5x62	17.5x62	17x52	17x84	30x84	17x78	26.5x72	26.5x72	30x80	30x80	17.5x62	17.5x62	26.5x70
vessels per rotor	76	52	12	52	32	36	16	36	20	20	16	16	52	52	24
Cat. No.	1787	1763-A	1763-A	1763-A	1738	1771-A	1772-A	1773	1779	1779	1774-A	1774-A	1763-A	1763-A	1775

	tubes with screw cap			Falcon	Nalgene	Nunc®	Falcon	5127 ²⁴⁾	– ²⁴⁾
Vessels									
capacity in ml	50	85	94	175	175	200	225	250	290
Ø x L in mm	29x107	38x106	38x106	61 x 118	62 x 144	60 x 130	61 x 137	62 x 122	62 x 137
max. RCF ²⁾	4,752	4,807	4,807	4,863	4,863	4,863	4,863	4,863	4,863
radius in mm	170	172	172	174	174	174	174	174	174
Adapter									
boring Ø x L in mm	30 x 80	38.5 x 80	38.5 x 80	62 x 111	62 x 111	62 x 111	62 x 111	62 x 100	62 x 100
vessels per rotor	16	8	8	4	4	4	4	4	4
Cat. No.	1774-A	1777	1777	1782	1778	1778	1782	1769	1769

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- When using these tubes, bucket 1752 or 5051 cannot be closed with lid 1751 or 5053.
- Tested by the TÜV in conformity with DIN EN 61010, section 2-020.
- Adapter must be loaded as illustrated.
- At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

Swing-out rotor, 4-place | 1798

Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,898
max. capacity	4 x 100 ml
run-up run-down, braked in sec	24 17
angle max. noise level	90° 55 dB (A)
temperature in °C ¹⁾	-8
Cat. No.	1798

Bucket

lid	5053
Cat. No.	5051



Vessels

	microliter tubes				tubes ²⁾									
capacity in ml	1.5	2	1.5	2	3	5	6	7	9	15	25	50	100	100
Ø x L in mm	11 x 38	11 x 38	11 x 38	11 x 38	10 x 60	12 x 75	12 x 82	12 x 100	14 x 100	17 x 100	24 x 100	34 x 100	40 x 115	44 x 100
max. RCF ²⁾	1,950 / 2,826	1,950 / 2,826	2,826	2,826	2,737	2,773	2,773	2,755	2,773	2,755	2,755	2,755	2,755	2,755
radius in mm	109 / 158	109 / 158	158	158	153	155	155	154	155	154	154	154	154	154

Adapter

boring Ø x L in mm	12.5 x 37	12.5 x 37	11.5 x 50	11.5 x 50	11 x 41.5	12.5 x 39.5	12.5 x 39.5	12.5 x 82.5	16 x 47.5	17.5 x 82.5	26 x 82.5	36 x 82.5	42 x 86	45.5 x 86
vessels per rotor	160	160	64	64	80	80	80	80	48	48	20	8	4	4
Cat. No.	5257	5257	5281	5281	5267	5227	5227	5247¹⁵⁾	5264	5248¹⁵⁾	5242	5243	5249	5262

Vessels

	1.1–1.4	2.6–2.9	2.7–3	4–5.5	4.5–5	4.9	7.5–8.2	9–10	10	1.6–5	4–7	4–7	8.5–10
capacity in ml	1.1–1.4	2.6–2.9	2.7–3	4–5.5	4.5–5	4.9	7.5–8.2	9–10	10	1.6–5	4–7	4–7	8.5–10
Ø x L in mm	8x66	13x65	11 x 66	15 x 75	11 x 92	13x90	15x92	16x92	15x102	13x75	13x100	16x75	16x100
max. RCF ²⁾	2,737	2,808	2,773	2,773	2,773	2,808	2,773	2,755	2,755	2,808	2,808	2,773	2,755
radius in mm	153	157	155	155	155	157	155	154	154	157	157	155	154

Adapter

boring Ø x L in mm	11 x 41.5	13.5 x 49.5	12.5 x 39.5	16 x 47.5	12.5 x 39.5	13.5 x 49.5	16 x 47.5	17.6 x 82.5	17.6 x 82.5	13.5 x 49.5	13.5 x 49.5	16 x 47.5	17.5 x 82.5
vessels per rotor	80	48	80	48	80	48	48	44	44	48	48	48	48
Cat. No.	5267	5268	5227	5264	5227	5268	5264	5258	5258	5268	5268	5264	5248

Vessels

	tubes with screw cap						cyto chambers	
capacity in ml	30	50	15	12	30	50	1–8	
Ø x L in mm	25 x 110	29 x 115	17 x 120	17 x 100	25 x 110	29 x 115	simple / multiple	
max. RCF ²⁾	2,755	2,826	2,898	2,898	2,755	2,755	1,735 / 2,737	
radius in mm	154	158	162	162	154	154	97 / 153	

Adapter

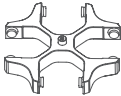
boring Ø x L in mm	26 x 82.5	30 x 90	17.2 x 90	17.2 x 90	26 x 82.5	36 x 82.5	-	
vessels per rotor	20	8	28	28	20	8	8	
Cat. No.	5266	5259	6306	6306	5266	5243	5280	

CYTO

Cyto system available for this model.
More information on [page 184](#)

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- When using these tubes, bucket 1752 or 5051 cannot be closed with lid 1751 or 5053.
- Also available with decanting aid. (Cat. No. 5247-91 or 5248-91).

Swing-out rotor, 4-place | 1798

	
Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 3,095
max. capacity	4 x 290 ml
run-up run-down, braked in sec	24 17
angle max. noise level	90° 56 dB (A)
temperature in °C ¹⁾	-8
Cat. No.	1798

	
Bucket	
lid bioseal ⁵⁾	5093
Cat. No.	5092



	tubes ²⁾									tubes with screw cap					
Vessels															
capacity in ml	5	6	7	15	25	50	100	100	250	15	30	50	12	25	30
Ø x L in mm	12x75	12x82	12x100	17x100	24x100	34x100	44x100	40x115	65x115	17x120	25 x 110	29x115	17x100	25x90	25x110
max. RCF ²⁾	3,005	3,005	3,005	2,952	2,898	2,952	2,952	2,952	3,095	3,095	2,898	3,095	3,005	2,826	2,898
radius in mm	168	168	168	165	162	165	165	165	173	173	162	173	168	158	162
Adapter															
boring Ø x L in mm	12.8x42	12.8x42	12.8x79.5	17.5x56.7	25.5x74	35.5x77.5	45.5x76.5	42x76.5	65x103	17x74	25.5x82	30x85	17.5x79.5	26x73	25.5x74
vessels per rotor	48	48	48	32	16	4	4	4	4	28	16	8	28	12	16
Cat. No.	5128	5128	5120	5136	5122	5124	5125	5126	1791	5129	5122	5123	5121	5134	5122

	tubes with screw cap	5127 ²⁴⁾	— ²⁴⁾	— ^{3.5)}	blood collection tubes / urine tubes										
Vessels															
capacity in ml	50	10	250	290	1.1–1.4	2.7–3	4–4.5	4.9	7.5–8.2	9–10	10	1.6–5	4–7	4–7	8
Ø x L in mm	29x115	16 x 80	61 x 122	62 x 137	8 x 66	11x66	15x75	13x90	15x92	16x92	15x102	13x75	16x75	13x100	16x125
max. RCF ²⁾	3,023	2,952	3,095	3,095	2,952	2,952	2,952	2,952	2,952	2,952	2,952	2,952	2,952	3,005	3,059
radius in mm	169	165	173	173	165	165	165	165	165	165	165	165	165	168	171
Adapter															
boring Ø x L in mm	30x99	17.5x56.7	63x90	63x90	12.8x54.5	12.8x54.5	17.5x56.7	17.5x56.7	17.5x56.7	17.5x56.7	17.5x56.7	12.8x54.5	17.5x56.7	12.8x79.5	17.5x79.5
vessels per rotor	8	32	4	4	48	48	32	32	32	32	32	48	32	48	28
Cat. No.	5135	5136	6319	6319	5138	5138	5136	5137	5136	5136	5136	5138	5136	5120	5121⁴⁾

	
Vessels	
capacity in ml	8.5 – 10
Ø x L in mm	16x100
max. RCF ²⁾	2,952
radius in mm	165
Adapter	
boring Ø x L in mm	17.5x56.7
vessels per rotor	32
Cat. No.	5136

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 3.5) When using these tubes, bucket 5092 cannot be closed with lid 5053.
- 4) Please remove the spacer.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2-020.
- 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

Swing-out rotor, 6-place | 1726



Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,808
max. capacity	6 x 50 ml
run-up run-down, braked in sec	19 18
angle temperature in °C ¹⁾	90° -6
Cat. No.	1726



	tubes ²⁾										-	-	cyto chambers
Vessels													
capacity in ml	5	5	6	7	9	15	20	25	45	50	8.5-10	30	1-8
Ø x L in mm	12x75	12x75	12x82	12x100	14x100	17x100	21x100	24x100	31x100	34x100	16x100	26x95	simple / multiple
max. RCF ²⁾	2,576	2,522	2,665	2,665	2,665	2,665	2,719	2,808	2,719	2,808	2,665	2,808	2,003
radius in mm	144	141	149	149	149	149	152	157	152	157	149	157	112
Carrier													
boring Ø x L in mm	12.5x74	14.5x63	12.5x74	12.5x74	14.6x74	17.6x74	21.5x74	25x78	32x74	35x78	17.6x74	25x78	-
vessels per rotor	24	102	24	24	30	24	12	12	6	6	24	12	6
Cat. No.	1369-91	1372	1369-92	1369-92	1370	1369	1346	1745	1345	1746	1369	1745	1660

CYTO

Cyto system available for this model.
More information on [page 184](#)

Swing-out rotor, 6-place | 1726



Rotor

max. RPM max. RCF	4,000 min ⁻¹ 2,808
max. capacity	42 x 15 ml
run-up run-down, braked in sec	19 18
angle max. noise level	90° 54 dB (A)
temperature in °C ¹⁾	-6
Cat. No.	1726

Carrier

Cat. No.	1742
-----------------	-------------



	- ²⁾	blood collection tubes / urine tubes										-
Vessels												
capacity in ml	15	2.6-2.9	4-4.5	7.5-8.2	9-10	10	1.6-5	4-7	8.5-10	15		
Ø x L in mm	17x100	13x65	15x75	15x92	16x92	15x102	13x75	16x75	16x100	17x120		
max. RCF ²⁾	2,808	2,683	2,683	2,808	2,808	2,808	2,683	2,683	2,808	2,808		
radius in mm	157	150	150	157	157	157	150	150	157	157		
Spacer												
boring Ø x L in mm	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	17.6 x 78	
vessels per rotor	42	42	42	42	42	18	42	42	42	42	18	
Cat. No.	-	0716	0716	-	-	-	0716	0716	-	-		

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- Adaptor must be loaded as illustrated.

— Swing-out rotor, 6-place | 1726

	
Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 2,325
max. capacity	72 x 4 ml
run-up run-down, braked in sec	19 18
angle max. noise level	90° 54 dB (A)
temperature in °C ¹⁾	-6
Cat. No.	1726



Bucket	
Cat. No.	1366



	microliter tubes		Rhesus	tubes ²⁾	
					
Vessels					
capacity in ml	1.5	2.0	1	3	4
Ø x L in mm	11 x 38	11 x 38	6 x 45	10 x 60	12 x 60
max. RCF ²⁾	2,325	2,325	2,308	2,290	2,290
radius in mm	130	130	129	128	128
					
					
Adapter					
boring Ø x L in mm	11.5 x 38	11.5 x 38	6.5 x 23	10.5 x 23	12.5 x 42
vessels per rotor	54	54	180	72	72
Cat. No.	5277	5277	1357	1327	1326

— Swing-out rotor, 6-place | 1726

	
Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 2,808
max. capacity	60 x 9 ml
run-up run-down, braked in sec	19 18
angle max. noise level	90° 54 dB (A)
temperature in °C ¹⁾	-6
Cat. No.	1726



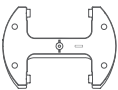
Carrier	
Cat. No.	1741



	- 2)	blood collection tubes / urine tubes			
					
Vessels					
capacity in ml	9	1.1 – 1.4	4.5 – 5	4.9	4 – 7
Ø x L in mm	14x100	8 x 66	11 x 92	13x90	13x100
max. RCF ²⁾	2,773	2,773	2,808	2,808	2,808
radius in mm	155	155	157	157	157
	Spacer	Spacer	²¹⁾		
					
Adapter					
boring Ø x L in mm	14.6 x 78	14.6 x 78	14.6 x 78	14.6 x 78	14.6 x 78
vessels per rotor	60	60	60	60	60
Cat. No.	0701	0701	-	-	-

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 21) Adapter must be loaded as illustrated.

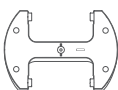
Swing-out rotor, 2-place | 1760

	
Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 2,397
max. capacity	10 plates
run-up run-down, braked in sec	30 23
angle max. noise level	90° 54 dB (A)
temperature in °C ¹⁾	-8
Cat. No.	1760

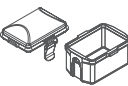


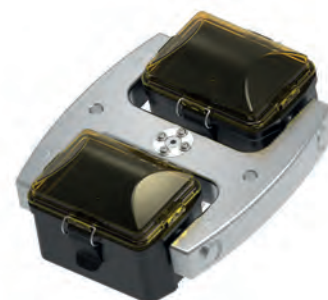
	MTP	MTP	CP	DWP	MS	QP	Microtest plates	PCR plate	PCR strips
Plates									
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	84x59x11	124x82x20	-
capacity in ml	-	-	-	-	-	-	-	-	0.2
max. RCF ²⁾	2,397	2,397	2,397	2,397	2,397	2,397	2,397	2,397	2,397
radius in mm	134	134	134	134	134	134	134	134	134
Bucket									
boring Ø x L in mm	-	-	-	-	-	-	-	-	-
plates / strips per rotor	10	8	6	2	2	2	4	2	48 x 8
Cat. No.	1753-A	1753-A	1753-A	1753-A	1753-A	1753-A	1753-A	1753-A+1485	1753-A+1485

Swing-out rotor, 2-place | 1770

	
Rotor	
max. RPM max. RCF	5,100 min ⁻¹ 3,926
capacity in ml	10 plates
run-up run-down, braked in sec	65 30
angle temperature in °C ¹⁾	90° -3
Cat. No.	1770



Bucket	
lid bioseal ³⁾	4627
Cat. No.	4745



	MTP	MTP	CP	DWP	MS	QP	Microtest plates	PCR plate	PCR strips
Plates									
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	84x59x11	124x82x20	-
Ø x L in mm	-	-	-	-	-	-	-	-	0,2
max. RCF ²⁾	3,926	3,926	3,926	3,926	3,926	3,926	3,926	3,926	3,926
radius in mm	135	135	135	135	135	135	135	135	135
Removal frame									
boring Ø x L in mm	-	-	-	-	-	-	-	-	-
plates / strips per rotor	10	8	8	2	2	2	4	2	24 x 8
Cat. No.	4626	4626	4626	4626	4626	4626	4626	4626 + 1485	4626 + 1485

Angle rotor, 6-place | 1720



Rotor

max. RPM	ROTINA 380 380 R	10,000 min ⁻¹ 11,000 min ⁻¹
max. RCF		13,528 16,369
max. capacity		6 x 94 ml
run-up / run-down, braked in sec		39 / 36 45 / 44
angle max. noise level		45° 59 dB (A)
temperature in °C ¹⁾		+1
Cat. No.		1720



Vessels

	microliter tubes		tubes ²⁾				blood collection tubes / urine tubes			tubes with screw cap					
capacity in ml	1.5	2.0	15	25	50	94	7.5 – 8.2	9 – 10	8.5 – 10	15	50	10	30	50	85
Ø x L in mm	11 x 38	11 x 38	17 x 100	24 x 100	34 x 100	38 x 102	15 x 92	16 x 92	16 x 100	17 x 120	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106
max. RCF ²⁾	ROTINA 380	12,969	12,969	12,745	12,410	13,304	13,528	12,745	12,745	12,745	13,081	12,745	12,410	12,410	12,969
max. RCF ²⁾	ROTINA 380 R	15,692	15,692	15,422	15,016	16,098	16,369	15,422	15,422	15,422	15,828	15,422	15,016	15,016	15,692
radius in mm	116	116	114	111	119	121	114	114	114	117	114	111	111	116	121



Adapter

boring Ø x L in mm	11.4x39	11.4x39	17.5x91.5	26x85	35x89	38.4x89.3	17.5x91.5	17.5x91.5	17.5x91.5	17x106	29.8x96.7	16.5x74	26x85	29x92	38.4x89
vessels per rotor	24	24	6	6	6	6	6	6	6	6	6	12	6	6	6
Cat. No.	1449	1449	1451	1447	1463	-	1451	1451	1451	1466	1454	1448	1447	1446	-



Vessels

capacity in ml	94
Ø x L in mm	38 x 102
max. RCF ²⁾	ROTINA 380
max. RCF ²⁾	ROTINA 380 R
radius in mm	121



Adapter

boring Ø x L in mm	38.4x89
vessels per rotor	6
Cat. No.	-

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Angle rotor, 6-place | 1792



+

lid bioseal⁵⁾



Rotor

max. RPM	ROTINA 380 380 R	10,000 min ⁻¹ 11,000 min ⁻¹
max. RCF		13,640 16,504
max. capacity		6 x 94 ml
run-up run-down, braked in sec		40 / 37 48 / 44
angle max. noise level		45° 59 dB (A)
temperature in °C ¹⁾		+4
Cat. No.		1792

Cat. No.

1792

INCLUSIVE



	microliter tubes		tubes ²⁾				blood collection tubes / urine tubes				-	tubes with screw cap			
															
Vessels															
capacity in ml	1.5	2.0	15	25	50	94	7.5 – 8.2	9 – 10	10	8.5 – 10	5	15	50	10	30
Ø x L in mm	11 x 38	11 x 38	17 x 100	24 x 100	34 x 100	38 x 102	15 x 92	16 x 92	15 x 102	16 x 100	17 x 59	17 x 120	29 x 115	16 x 80	26 x 95
max. RCF ²⁾ ROTINA 380	13,081	13,081	12,857	12,522	13,416	13,640	12,857	12,857	12,857	12,857	12,745	13,081	13,304	12,857	12,522
max. RCF ²⁾ ROTINA 380 R	15,828	15,828	15,557	15,151	16,233	16,504	15,557	15,557	15,557	15,557	15,422	15,828	16,098	15,557	15,151
radius in mm	117	117	115	112	120	122	115	115	115	115	114	117	119	115	112
+															
															
Adapter															
boring Ø x L in mm	11.4x39	11.4x39	17.5x92	26x85	35x89	38.2x89.6	17.5x92	17.5x92	17.5x92	17.5x92	17x51	17x106	29.8x97	16.5x74	26x85
vessels per rotor	24	24	6	6	6	6	6	6	6	6	6	6	6	12	6
Cat. No.	1449	1449	1451	1447	1463	-	1451	1451	1451	1451	1476	1466	1454	1448	1447

	tubes with screw cap	
		
Vessels		
capacity in ml	50	85
Ø x L in mm	29 x 107	38 x 106
max. RCF ²⁾ ROTINA 380	13,081	13,640
max. RCF ²⁾ ROTINA 380 R	15,828	16,504
radius in mm	117	122
		
Adapter		
boring Ø x L in mm	29 x 92	38.2 x 89.6
vessels per rotor	6	6
Cat. No.	1446	-

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

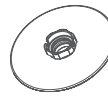
5) Tested by TÜV in conformity with DIN EN 61010, section 2-020.

Angle rotor, 30-place | 1789-A

Rotor	
max. RPM max. RCF	15,000 min ⁻¹ 24,400 min ⁻¹
max. capacity	30 x 2 ml
run-up run-down, braked in sec	24 24
angle max. noise level	45° 60 dB (A)
temperature in °C ¹⁾	+4
Cat. No.	1789-A



Lid bioseal[®],
phenol-resistant
Cat. No.



INCLUSIVE



microliter tubes						
Vessels						
capacity in ml	0.2	0.4	0.5	0.8	1.5	2
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38
max. RCF ²⁾	24,400	24,400	24,400	24,400	24,400	24,400
radius in mm	97	97	97	97	97	97
Adapter						
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2x19.3	11.2x40.9
vessels per rotor	30	30	30	30	30	30
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-



- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2-020.
- 7) For centrifugation at high speeds, we recommend to use form-fitting, phenol-resistant adapters. Cat. No. 2031.

Packages

ROTINA 380 BLOOD TUBE PACKAGE 1		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTINA 380 centrifuge	1701	64	1.6 - 7	13 x 90 / 100	5,000	4,668
- 1 x Swing-out rotor, 4-place	1754	52	4 - 10	17 x 100	5,000	4,668
- 4 x bucket	1752					
- 4 x lid (bioseal)	1751					
- 4 x adapter, 16-place	1783-A					
- 4 x adapter, 13-place	1763-A					
1701SET1						



ROTINA 380 CONICAL PACKAGE 2		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTINA 380 centrifuge	1701	36	15	17 x 120	5,000	4,863
- 1 x Swing-out rotor, 4-place	1754	16	50	29 x 115	5,000	4,863
- 4 x bucket	1752					
- 4 x adapter, 9-place (conical)	1771-A					
- 4 x adapter, 4-place (conical)	1772-A					
1701SET2						



ROTINA 380 R CONICAL PACKAGE 1		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTINA 380 R centrifuge	1706	36	15	17 x 120	5,000	4,863
- 1 x Swing-out rotor, 4-place	1754	16	50	29 x 115	5,000	4,863
- 4 x bucket	1752					
- 4 x adapter, 9-place (conical)	1771-A					
- 4 x adapter, 4-place (conical)	1772-A					
1706SET1						



ROTINA 380 R BLOOD TUBE PACKAGE 2		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTINA 380 R centrifuge	1706	64	1.6 - 10	13 x 90 / 100	5,000	4,668
- 1 x Swing-out rotor, 4-place	1754	52	4 - 15	17 x 100	5,000	4,668
- 4 x bucket	1752					
- 4 x lid (bioseal)	1751					
- 4 x adapter, 16-place	1783-A					
- 4 x adapter, 13-place	1763-A					
1706SET2						



ROTINA 420 | 420 R

Many solutions – one rotor

This compact benchtop centrifuge has been developed for large sample volumes. It has a maximum capacity of 4 x 600 ml bottles, 140 blood tubes, 16 microtiter plates or 52 x 15 ml conical tubes, all on a single cost-effective rotor. This unit is available with refrigeration and a temperature range from -20 °C to +40 °C (ROTINA 420 R).

— Features

- RPM: 50 - 15,000 min⁻¹ – adjustable in increments of 10
- RCF: 50 - 24,400 – adjustable in steps of 1
- Max. capacity: 4 x 600 ml
- High-performance with first-class equipment
- Choice of 5 rotors
- IVDR-conform according to regulation (EU) 2017/746
- Max. noise level of 51 dB(A) with rotor 4790-A
- Easy operation with keypad and control knob
- 98 program memories for more individuality
- 9 individual acceleration and 10 deceleration stages
- Model 420 R coolable from -20 to +40 °C (with pre-cooling function)

— Fields of application

- Hospitals
- Hematological laboratories
- Blood centers
- Pharmaceutical laboratories
- Food analyzing laboratories
- University / Academic research



Centrifuge packages for the model can be found on [page 117](#)



More information about the control panel can be found on [page 206](#)

CYTO

Cyto system available for this model. More information on [page 184](#)



ROTINA 420 R

ROTINA 420



according to regulation (EU) 2017/746



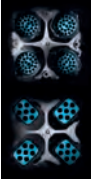
Find out more about the product.

Technical data

	ROTINA 420 non-refrigerated	ROTINA 420 R refrigerated
voltage *)	200–240 V 1 ~	200–240 V 1 ~
frequency	50–60 Hz	50 Hz
consumption	870 VA	1,600 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	4 x 600 ml	4 x 600 ml
max. RPM	15,000 min ⁻¹	15,000 min ⁻¹
max. RCF	24,400	24,400
running time	1 – 99 h: 59 min: 59 s, ∞ continuous run, short cycle mode	1 – 99 h: 59 min: 59 s, ∞ continuous run, short cycle mode
dimensions (WxDxH)	506 x 650 x 423 mm	713 x 654 x 423 mm
weight	approx. 75 kg	approx. 108 kg
noise level	51 dB (A) with rotor 4790-A	50 dB (A) with rotor 4790-A
temperature control, infinitely variable	-	from -20 to +40 °C
Cat. No.	4701	4706
100–127 V 1 ~ / 50–60 Hz *)	4701-01	4706-01
consumption	900 VA	1,850 VA
emission, immunity	FCC class B	FCC class B
weight	approx. 84 kg	approx. 117 kg

*) Other voltages on request.

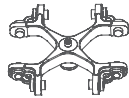
Available rotors

SWING-OUT ROTORS		angle	max. RPM	max. capacity	Cat. No.	page
	Swing-out rotor, 4-place	90°	4,800 min ⁻¹	4x600 ml	4784-A	112
	Swing-out rotor, 4-place	90°	4,000 min ⁻¹	4x290 ml	4753	114
ANGLE ROTORS						
	Angle rotor, 4-place	25°	9,500 min ⁻¹	4x250 ml	4795	116
	Angle rotor, 6-place	45°	11,000 min ⁻¹	6x94 ml	4794	116
	Angle rotor, 30-place	45°	15,000 min ⁻¹	30x2 ml	4790-A	117

Swing-out rotor, 4-place | 4784-A

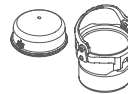
Rotor

max. RPM max. RCF	4,800 min ⁻¹ 4,740
max. capacity	4x600 ml
run-up run-down, braked in sec	54 38
angle max. noise level	90° 56 dB (A)
temperature in °C ¹⁾	+4
Cat. No.	4784-A



Bucket with clamp lock

lid bioseal ⁵⁾	4783
Cat. No.	4780



Bucket without clamp lock ¹⁴⁾

Cat. No.	4785
-----------------	-------------



Vessels

	1.5	2.0	3	4	4	5	6	7	15	25	50	94	100	100	250
capacity in ml	1.5	2.0	3	4	4	5	6	7	15	25	50	94	100	100	250
Ø x L in mm	11 x 38	11 x 38	10 x 60	10 x 88	12 x 60	12 x 75	12 x 82	12 x 100	17 x 100	24 x 100	34 x 100	38 x 102	40 x 115	44 x 100	65 x 115
max. RCF ²⁾	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,559	4,534	4,534	4,534	4,534
radius in mm	178	178	178	178	178	178	178	178	178	178	177	176	176	176	176

microliter tubes

tubes ²⁾



Adapter

boring Ø x L in mm	11.2 x 38	11.2 x 38	11.2 x 54	11.2 x 54	13.4 x 55	13.4 x 55	13.4 x 55	13.4 x 55	17.5 x 62	26.5 x 69	36 x 77	42 x 76.5	42 x 76.5	46 x 76.5	66 x 97
vessels per rotor	96	96	140	140	104	104	104	104	72	28	16	12	12	8	4
Cat. No.	4773	4773	4761	4761	4762A	4762A	4762A	4762A	4763A	4764	4765	4766	4766	4767	4768

blood collection / urine vessels

Vessels

capacity in ml	1.1–1.4	2.6–3.4	4–5.5	4.5–5	4.9	7.5–8.2	9–10	1.6–7	1.6–7	4–7	8	8.5–10	15	50	12
Ø x L in mm	8 x 66	13 x 65	15 x 75	11 x 92	13 x 90	15 x 92	16 x 92	13 x 75	13 x 100	16 x 75	16 x 125	16 x 100	17 x 120	29 x 115	17 x 100
max. RCF ²⁾	4,585	4,585	4,585	4,585	4,585	4,585	4,585	4,720	4,720	4,585	4,585	4,585	4,740	4,688	4,688
radius in mm	178	178	178	178	178	178	178	178	178	178	178	178	184	182	182



Adapter

boring Ø x L in mm	11.2 x 54	13.4 x 55	17.5 x 62	11.2 x 54	13.4 x 55	17.5 x 62	17.5 x 62	13.4 x 54	13.7 x 54	17.5 x 62	17.5 x 62	17.5 x 62	17 x 84	30 x 82.5	17.2 x 58.5
vessels per rotor	140	104	72	140	104	72	72	104	84	72	24	72	52	20	56
Cat. No.	4761	4762A	4763A	4761	4762A	4763A	4763A	4762A	4775A	4763A	4763A	4763A	4769A	4770A	4774A

tubes with screw cap

Falcon

Nalgene

Nunc®

Falcon

5127 ²⁴⁾

- ²⁴⁾

- ²⁴⁾

0551 ²⁴⁾

Vessels

capacity in ml	25–30	50	10	30	50	85	94	175	175	200	225	250	400	400	600
Ø x L in mm	25 x 90/110	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102	61 x 118	62 x 144	60 x 130	61 x 137	62 x 122	81 x 136	84 x 134	93 x 134
max. RCF ²⁾	4,585	4,688	4,585	4,585	4,688	4,534	4,534	4,740	4,740	4,740	4,740	4,740	4,740	4,740	4,740
radius in mm	178	182	178	178	182	176	176	184	184	184	184	184	184	184	184

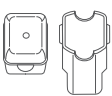


Adapter

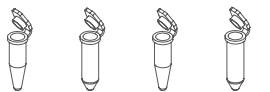
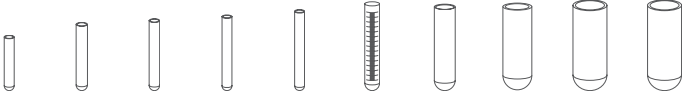
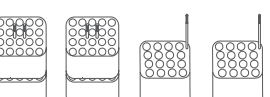
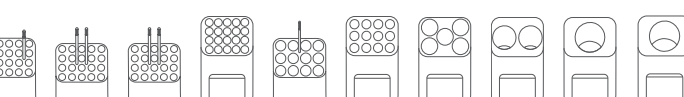
boring Ø x L in mm	26.5 x 69	30 x 82.5	17.5 x 62	26.5 x 69	30 x 82.5	42 x 76.5	42 x 76.5	61 x 105	61.5 x 110	61.5 x 110	61 x 105	62 x 100	85 x 100	85 x 100	94 x 99
vessels per rotor	28	20	72	28	20	12	12	4	4	4	4	4	4	4	4
Cat. No.	4764	4770A⁴⁾	4763A	4764	4770A⁴⁾	4766	4766	4776	4777	4777	4776	4771	4772	4772	-

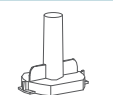
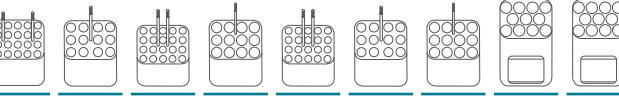
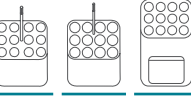
Swing-out rotor, 4-place | 4753

	
Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 2,898
max. capacity	4 x 100 ml
run-up run-down, braked in sec	18 16
angle max. noise level	90° 58 dB (A)
temperature in °C ¹⁾	-1
Cat. No.	4753

	
Bucket	
lid	5053
Cat. No.	5051



microliter tubes				tubes ²⁾										
														
Vessels														
capacity in ml	1.5	2	1.5	2	3	5	6	7	9	15	25	50	100	100
Ø x L in mm	11 x 38	11 x 38	11 x 38	11 x 38	10 x 60	12 x 75	12 x 82	12 x 100	14 x 100	17 x 100	24 x 100	34 x 100	44 x 100	40 x 115
max. RCF ²⁾	1,950 / 2,826	1,950 / 2,826	2,826	2,826	2,737	2,773	2,773	2,755	2,773	2,755	2,755	2,755	2,755	2,755
radius in mm	109 / 158	109 / 158	158	158	153	155	155	154	155	154	154	154	154	154
														
Adapter														
boring Ø x L in mm	12.5 x 37	12.5 x 37	11.5 x 50	11.5 x 50	11 x 44	12.5 x 39.5	12.5 x 39.5	12.5 x 82.5	16 x 50	17.5 x 82.5	26 x 82.5	36 x 82.5	45.5 x 82.5	42 x 86
vessels per rotor	160	160	64	64	80	80	80	80	48	48	20	8	4	4
Cat. No.	5257	5257	5281	5281	5267	5227	5227	5247 ¹⁵⁾	5264	5248 ¹⁵⁾	5242	5243	5262	5249

blood collection / urine vessels										tubes with screw cap			cyto chambers
													
Vessels													
capacity in ml	1.1–1.4	2.6–3.4	2.7–3	4–5.5	4.5–5	4.9	7.5–8.2	9–10	10	1.6–5	4–7	8.5–10	1–8
Ø x L in mm	8 x 66	13 x 65	11 x 66	15 x 75	11 x 92	13 x 90	15 x 92	16 x 92	15 x 102	13 x 75	16 x 75	16 x 100	simple / multiple
max. RCF ²⁾	2,737	2,808	2,773	2,773	2,773	2,808	2,773	2,755	2,755	2,808	2,773	2,755	1,735 / 2,737
radius in mm	153	157	155	155	155	157	155	154	154	157	155	154	97 / 153
													
Adapter													
boring Ø x L in mm	11 x 41.5	13.5 x 52	12.5 x 37	16 x 50	12.5 x 37	13.5 x 52	16 x 50	17.6 x 82.5	17.6 x 82.5	13.5 x 52	16 x 50	17.5 x 82.5	-
vessels per rotor	80	48	80	48	80	48	48	44	44	48	48	48	8
Cat. No.	5267	5268	5227	5264	5227	5268	5264	5258	5258	5268	5264	5248	5280

tubes with screw cap						
						
	3.6)	3.6)	3.6)		3.6)	3.6)
Vessels						
capacity in ml	15	30	50	12	30	50
Ø x L in mm	17x120	25x110	29x115	17x100	25x110	29x115
max. RCF ²⁾	2,898	2,755	2,826	2,898	2,755	2,755
radius in mm	162	154	158	162	154	154
						
Adapter						
boring Ø x L in mm	17x90	26x82.5	30x90	17x90	26x82.5	36x82.5
vessels per rotor	28	20	8	28	20	8
Cat. No.	6306	5266	5259	6306	5266	5243

CYTO

Cyto system available for this model.
More information on page 184

- 1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 3.6) When using these tubes, bucket 4780 or 5051 cannot be closed with the lid.
- 4) Please remove the spacer.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2-020.
- 14) With the E3905 add-on kit and the 4783 lid, the 4785 carrier can be converted at a later time to a 4780 carrier with single-hand clamp lock.
- 21) Adapter must be loaded as illustrated.
- 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.
- 29) Suitable for blood collection systems with a lid larger than 17 mm in diameter.

Swing-out rotor, 4-place | 4753

Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 3,095
max. capacity	4 x 250 ml
run-up run-down, braked in sec	18 16
angle max. noise level	90° 58 dB (A)
temperature in °C ¹⁾	-1
Cat. No.	4753

Bucket	
lid bioseal ⁵⁾	5093
Cat. No.	5092



	tubes ²⁾									blood collection / urine vessels					
Vessels															
capacity in ml	5	6	7	15	25	50	100	100	250	1.1–1.4	2.6–2.9	2.7–3	4–4.5	4.5–5	4.9
Ø x L in mm	12x75	12x82	12x100	17x100	24x100	34x100	44x100	40x115	65x115	8 x 66	13 x 65	11x66	15x75	11x92	13x90
max. RCF ²⁾	3,005	3,005	3,005	2,952	2,898	2,952	2,952	2,952	3,095	2,540	2,540	2,540	2,952	3,005	2,952
radius in mm	168	168	168	165	162	165	165	165	173	142	142	142	165	168	165
Adapter															
boring Ø x L in mm	12.8x42	12.8x42	13.2x79.5	17.5x56.7	25.5x75	35.5x77.5	45.5x85	42x76.5	66x103	12.8x54.5	12.8x54.5	12.8x54.5	17.5x56.7	13.2x79.5	13.5x56.7
vessels per rotor	48	48	48	32	16	4	4	4	4	48	48	48	32	48	32
Cat. No.	5128	5128	5120	5136	5122	5124	5125	5126	1791	5138	5138	5138	5136	5120	5137

	blood collection / urine vessels							tubes with screw cap								5127 ²⁴⁾
Vessels																
capacity in ml	7.5–8.2	9–10	10	1.6–5	4–7	4–7	8.5–10	15	50	12	25	30	50	10	250	
Ø x L in mm	15x92	16x92	15x102	13x75	13x100	16x75	16x100	17x120	29x115	17x100	25x90	25x110	29x115	16 x 80	61 x 122	
max. RCF ²⁾	2,952	2,952	2,952	2,540	3,005	2,952	2,952	3,095	3,095	3,005	2,826	2,898	3,023	2,952	3,095	
radius in mm	165	165	165	142	168	165	165	173	173	168	158	162	169	165	173	
Adapter																
boring Ø x L in mm	17.5x56.7	17.5x56.7	17.5x56.7	12.8x54.5	13.2x79.5	17.5x56.7	17.5x56.7	17x85	30x85	17.5x85	26x73	25.5x75	30x99	17.5x57.7	62x90	
vessels per rotor	32	32	32	48	48	32	32	28	8	28	12	16	8	32	4	
Cat. No.	5136	5136	5136	5138	5120	5136	5136	5129	5123	5121	5134	5122	5135	5136	6319	

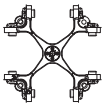
1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

5) Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

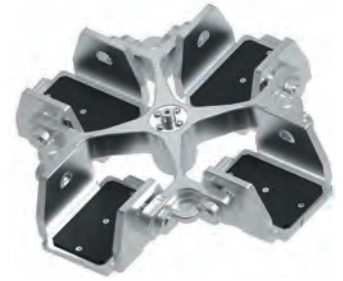
24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

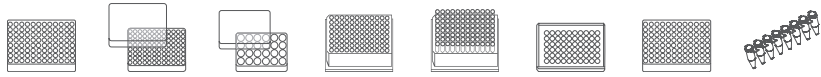
Swing-out rotor, 4-place | 4784-A

	
Rotor	
max. RPM max. RCF	4,800 min ⁻¹ 4,096
max. capacity	16 plates
run-up run-down, braked in sec	54 38
angle max. noise level	90° 56 dB (A)
temperature in °C ¹⁾	+4
Cat. No.	4784-A



Bucket	
Cat. No.	4782



	MTP	MTP	CP	DWP	MS	Microtest plate	PCR plate 96 wells	PCR strips
Plates								
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	84x59x11	124x82x20	-
capacity in ml	-	-	-	-	-	-	-	0,2
max. RCF ²⁾	4,096	4,096	4,096	4,096	4,096	4,096	4,096	4,096
radius in mm	159	159	159	159	159	159	159	159
Adapter								
boring Ø x L in mm	-	-	-	-	-	-	-	-
plates / strips per rotor	16	16	12	4	4	8	4	48 x 8
Cat. No.	-	-	-	-	-	-	1485	1485

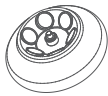
Angle rotor, 4-place | 4795

	
Rotor	
max. RPM max. RCF	9,500 min ⁻¹ 12,007
max. capacity	4x250 ml
run-up run-down, braked in sec	45 55
angle	25°
temperature in °C ¹⁾	+2
Cat. No.	4795



	tubes ²⁾			tubes with screw cap					5127 ²⁴⁾
Vessels									
capacity in ml	15	25	94	10	30	50	85	85	250
Ø x L in mm	17 x 100	24 x 100	38 x 106	16 x 80	26 x 95	29 x 107	38 x 106	38 x 106	62 x 122
max. RCF ²⁾	11,301	10,897	10,292	11,402	10,897	10,090	10,292	10,292	12,007
radius in mm	112	108	102	113	108	100	102	102	119
+									
Adapter									
boring Ø x L in mm	17.6 x 83	26 x 80	38.6 x 88	16.6 x 70	26 x 80	29 x 90	38.6 x 88	38.6 x 88	61.5 x 109
vessels per rotor	28	12	4	32	12	4	4	4	4
Cat. No.	5646	5642	5644	5641	5642	5643	5644	5644	-

Angle rotor, 6-place | 4794

Rotor	
max. RPM max. RCF	11,000 min ⁻¹ 16,504
max. capacity	6 x 94 ml
run-up run-down, braked in sec	40 63
angle max. noise level	45° 58 dB (A)
temperature in °C ¹⁾	+4
Cat. No.	4794

Lid bioseal ⁵⁾	
Cat. No.	INCLUSIVE



	microliter tubes		tubes ²⁾							blood collection / urine vessels				-
Vessels														
capacity in ml	1.5	2	3	6	15	25	50	85	94	7.5 – 8,2	9 – 10	10	8.5 – 10	5
Ø x L in mm	11x38	11x38	10x60	17x100	17x100	24x100	34x100	38x106	38x102	15x92	16x92	15x102	16x100	17x51
max. RCF ²⁾	15,828	15,828	15,828	15,557	15,557	15,151	16,233	16,504	16,504	15,557	15,557	15,557	15,557	16,504
radius in mm	117	117	117	115	115	112	120	122	122	115	115	115	117	122

Adapter														
boring Ø x L in mm	11.4 x 39	11.4 x 39	11.4 x 39	17.5 x 91,5	17.5 x 91,5	26 x 85	35 x 89,3	38,2 x 89,6	38,2 x 89,6	17,5 x 91,5	17,5 x 91,5	17,5 x 91,5	17,5 x 91,5	17 x 51
vessels per rotor	24	24	24	6	6	6	6	6	6	6	6	6	6	6
Cat. No.	1449	1449	1449	1451	1451	1447	1463	-	-	1451	1451	1451	1451	1476

	tubes with screw cap						
Vessels							
capacity in ml	4	15	50	10	30	50	85
Ø x L in mm	12 x 40	17 x 120	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106
max. RCF ²⁾	15,557	15,828	16,098	15,557	15,151	15,828	16,504
radius in mm	115	117	119	115	112	117	122
Adapter							
boring Ø x L in mm	15,6 x 30	17 x 106	29,8 x 96,7	16,5 x 74	26 x 85	29 x 92	38,2 x 89,6
vessels per rotor	24	6	6	12	6	6	6
Cat. No.	1403	1466	1454	1448	1447	1446	-

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

5) Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

Angle rotor, 30-place | 4790-A

	
Rotor	
max. RPM max. RCF	15,000 min ⁻¹ 24,400
max. capacity	30 x 2 ml
run-up run-down, braked in sec	19 24
angle max. noise level	45° 50 dB (A)
temperature in °C ¹⁾	+4
Cat. No.	4790-A


Lid bioseal²⁾, phenol-resistant
Cat. No.

INCLUSIVE



microliter tubes						
						
Vessels						
capacity in ml	0.2	0.4	0.5	0.8	1.5	2
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38
max. RCF ²⁾	24,400	24,400	24,400	24,400	24,400	24,400
radius in mm	97	97	97	97	97	97
						
Adapter						
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2x19.3	11.2x40.9
vessels per rotor	30	30	30	30	30	30
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

Packages

ROTINA 420 BLOOD TUBE PACKAGE 1		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTINA 420 centrifuge	4701	104	1.6 - 7	13 x 90 / 100	4,800	4,585
- 1 x Swing-out rotor, 4-place	4784-A	72	4 - 15	17 x 100	4,800	4,585
- 4 x bucket	4780					
- 4 x lid (bioseal)	4783					
- 4 x adapter, 26-place	4762A					
- 4 x adapter, 18-place	4763A					
4701SET1						



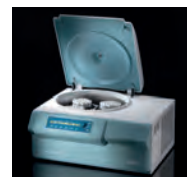
ROTINA 420 CONICAL PACKAGE 2		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTINA 380 centrifuge	4701	52	15	17 x 120	4,800	4,740
- 1 x Swing-out rotor, 4-place	4784-A	20	50	29 x 115	4,800	4,688
- 4 x bucket	4785					
- 4 x adapter, 13-place (conical)	4769A					
- 4 x adapter, 5-place (conical)	4770A					
4701SET2						



ROTINA 420 R BLOOD TUBE PACKAGE 1		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTINA 420 centrifuge	4706	104	1.6 - 7	13 x 90 / 100	4,800	4,585
- 1 x Swing-out rotor, 4-place	4784-A	72	4 - 15	17 x 100	4,800	4,585
- 4 x bucket	4780					
- 4 x lid (bioseal)	4783					
- 4 x adapter, 26-place	4762A					
- 4 x adapter, 18-place	4763A					
4706SET1						



ROTINA 420 R CONICAL PACKAGE 2		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTINA 420 R centrifuge	4706	52	15	17 x 120	4,800	4,740
- 1 x Swing-out rotor, 4-place	4784-A	20	50	29 x 115	4,800	4,688
- 4 x bucket	4785					
- 4 x adapter, 13-place (conical)	4769A					
- 4 x adapter, 5-place (conical)	4770A					
4706SET2						



ROTANTA 460 | 460 R

Superior benchtop for multi-purpose use

This powerful unit is capable of virtually any application you choose. It is able to spin high sample volumes of blood tubes, conical tubes, plates and bottles. Speciality buckets are able to accommodate 450 ml blood bags. This unit is available with refrigeration and a temperature range from -20 °C to +40 °C (ROTANTA 460 R).

— Features

- RPM: 50 - 15,000 min⁻¹ – adjustable in increments of 10
- RCF: 50 - 24,400 min⁻¹ – adjustable in increments of 1
- Max. Capacity: 4 x 1,000 ml
- Choice of 8 rotors
- Medical device according to regulation (EU) 2017/745
- 9 individual acceleration and 19 deceleration stages
- Easy operation with keypad and control knob
- 98 program memories for more individuality
- Model 460 R coolable from -20 to +40 °C (with pre-cooling function)

— Fields of application

- Hospitals
- Blood centers
- Cell culture laboratories



Centrifuge packages for the model can be found on [page 134](#)



More information about the control panel can be found on [page 206](#)



ROTANTA 460 R

ROTANTA 460



Find out more about the product.

Technical data

	ROTANTA 460 non-refrigerated	ROTANTA 460 R refrigerated
voltage *)	220 – 240 V 1 ~	220 – 240 V 1 ~
frequency	50 – 60 Hz	50 Hz
consumption	1,000 VA	1,800 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	4 x 1,000 ml	4 x 1,000 ml
max. RPM	15,000 min ⁻¹	15,000 min ⁻¹
max. RCF	24,400	24,400
running time	1 – 99 h: 59 min: 59 s, ∞ continuous run, short cycle mode	1 – 99 h: 59 min: 59 s, ∞ continuous run, short cycle mode
dimensions (WxDxH)	554x706x456 mm	770x706x456 mm
weight	approx. 101 kg	approx. 141 kg
noise level	46 dB (A) with rotor 4474	58 dB (A) with rotor 4474
temperature control, infinitely variable	-	from -20 to +40 °C
Cat. No.	5650	5660
100 – 127 V 1 ~ / 60 Hz *)	5650-01	5660-01
consumption	1,100 VA	2,000 VA
emission, immunity	FCC class B	FCC class B
weight	approx. 111 kg	approx. 151 kg

*) Other voltages on request.

Available rotors

SWING-OUT ROTORS

	angle	max. RPM	max. capacity	Cat. No.	page
 Swing-out rotor, 4-place	90°	4,600 min ⁻¹	4 x 750 ml	5699-R	120
 Swing-out rotor, 4-place	90°	3,800 min ⁻¹	4 x 1,000 ml	5654	127
 Swing-out rotor, 6-place	90°	4,000 min ⁻¹	6 x 290 ml	4446	129
 Swing-out rotor, 4-place	90°	2,000 min ⁻¹	4 x 100 ml	4474	131
 Swing-out rotor, 2-place	90°	5,900 min ⁻¹ / 6,200 min ⁻¹	12 plates	5622	131

ANGLE ROTORS

 Angle rotor, 30-place	45°	15,000 min ⁻¹	30 x 2 ml	4489-A	132
 Angle rotor, 6-place	25°	8,500 min ⁻¹ / 9,500 min ⁻¹	6 x 250 ml	5645	132
 Angle rotor, 6-place	45°	11,500 min ⁻¹	6 x 94 ml	5615	133

Swing-out rotor, 4-place | 5699-R

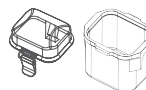
Rotor

max. RPM max. RCF ²⁾	4,600 min ⁻¹ 5,063
max. capacity	4x250 ml
run-up run-down, braked in sec	79 88
angle temperature in °C ¹⁾	90° +10
Cat. No.	5699-R



Bucket

lid bioseal ⁵⁾	5627
Cat. No.	5625-A



Vessels

	1.5	2.0	3	4	4	5	6	7	15	25	75	94	100	100	250
capacity in ml	1.5	2.0	3	4	4	5	6	7	15	25	75	94	100	100	250
Ø x L in mm	11x38	11x38	10x60	10x88	12x60	12x75	12x82	12x100	17x100	24x100	34x100	38x110	44x100	40x115	65 x 115
max. RCF ²⁾	3,572 / 4,637	3,572 / 4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,495	4,495	4,637	4,495	4,495
radius in mm	151/196	151/196	196	196	196	196	196	196	196	196	190	190	196	190	190



Adapter

	11x84	11x84	11x84	11x84	13.5x84	13.5x84	13.5x84	13.5x84	17.5x84	26.5x84	36x80	42x80	46x84	42x80	66x80
boring Ø x L in mm	11x84	11x84	11x84	11x84	13.5x84	13.5x84	13.5x84	13.5x84	17.5x84	26.5x84	36x80	42x80	46x84	42x80	66x80
vessels per rotor	224	224	120	120	80	80	80	80	68	24	12	12	8	12	4
Cat. No.	4730	4730	4730	4730	4732	4732	4732	4732	4733	4734	4735	4736	4737	4736	4738

microliter tubes	tubes ²⁾														

Vessels

	1.1–1.4	2.6–2.9	2.7–3	4–5.5	4.5–5	4.9	7.5–8.2	9–10	10	1.6–5	4–7	4–7	8.5–10	14	15
capacity in ml	1.1–1.4	2.6–2.9	2.7–3	4–5.5	4.5–5	4.9	7.5–8.2	9–10	10	1.6–5	4–7	4–7	8.5–10	14	15
Ø x L in mm	8 x 66	13 x 65	11 x 66	15 x 75	11 x 92	13 x 90	15 x 92	16 x 92	15 x 102	13 x 75	13 x 100	16 x 75	16 x 100	16.5 x 106	17 x 120
max. RCF ²⁾	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637
radius in mm	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196



Adapter

	11x84	13.5x84	13.5x84	17.5x84	13.5x84	13.5x84	17.5x84	17.5x84	17.5x84	13.5x84	13.5x84	17.5x84	17.5x84	17x80	17x80
boring Ø x L in mm	11x84	13.5x84	13.5x84	17.5x84	13.5x84	13.5x84	17.5x84	17.5x84	17.5x84	13.5x84	13.5x84	17.5x84	17.5x84	17x80	17x80
vessels per rotor	120	80	80	68	80	80	68	68	68	80	80	68	68	48	48
Cat. No.	4730	4732	4732	4733	4732	4732	4733	4733	4733	4732	4733	4733	4733	4739⁴⁾	4739

blood collection / urine vessels	tubes with screw cap														

Vessels

	50	12	25	30	50	10	30	50	85	94
capacity in ml	50	12	25	30	50	10	30	50	85	94
Ø x L in mm	30x115	17x100	25x90	25x110	29x115	16x80	26x95	29x107	38x106	38x110
max. RCF ²⁾	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,495	4,495
radius in mm	196	196	196	196	196	196	196	196	190	190



Adapter

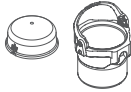
	30x80	17x80	26.5x84	26.5x84	30x80	17.5x84	26.5x84	30x80	42x80	42x80
boring Ø x L in mm	30x80	17x80	26.5x84	26.5x84	30x80	17.5x84	26.5x84	30x80	42x80	42x80
vessels per rotor	20	48	24	24	20	68	24	20	12	12
Cat. No.	4740	4739⁴⁾	4734	4734	4740	4733	4734	4740	4736	4736

tubes with screw cap										

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- Please remove the spacer.
- Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

Swing-out rotor, 4-place | 5699-R

Rotor	
max. RPM max. RCF ²⁾	4,600 min ⁻¹ 4,779
max. capacity	4 x 750 ml
run-up run-down, braked in sec	90 95
angle temperature in °C ¹⁾	90° +7
Cat. No.	5699-R

Bucket with clamp lock	
lid bioseal ³⁾	4883
Cat. No.	4880
Bucket without clamp lock ¹⁴⁾	
Cat. No.	4885



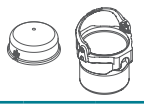
	microliter tubes								tubes ²⁾						
Vessels															
capacity in ml	1.5	2.0	3	4	4	5	6	7	15	25	45	50	94	100	100
Ø x L in mm	11 x 38	11 x 38	10 x 60	10 x 88	12 x 60	12 x 75	12 x 82	12 x 100	17 x 100	24 x 100	31 x 100	34 x 100	38 x 110	40 x 115	44 x 100
max. RCF ²⁾	3,572 / 4,637	3,572 / 4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,637	4,495	4,495	4,495	4,495	4,637
radius in mm	151/196	151/196	196	196	196	196	196	196	196	196	190	190	190	190	196
Adapter															
boring Ø x L in mm	11 x 84	11 x 84	11 x 84	11 x 84	13.5 x 84	13.5 x 84	13.5 x 84	13.5 x 84	17.5 x 84	26.5 x 84	36 x 80	36 x 80	42 x 80	42 x 80	46 x 84
vessels per rotor	192	192	96	96	76	76	76	76	76	28	16	16	12	12	8
Cat. No.	4830	4830	4830	4830	4832	4832	4832	4832	4833	4834	4835	4835	4836	4836	4837

	... 2)	blood collection / urine vessels													
Vessels															
capacity in ml	250	1.1-1.4	2.6-2.9	2.6-2.9	2.7-3	4-5.5	4.5-5	4.9	4.9	7.5-8.2	9-10	9-10	10	1.6-5	1.6-5
Ø x L in mm	65 x 115	8 x 66	13 x 65	13 x 65	11 x 66	15 x 75	11 x 92	13 x 90	13 x 90	15 x 92	16 x 92	16 x 92	15 x 102	13 x 75	13 x 75
max. RCF ²⁾	4,495	4,637	4,116	4,637	4,637	4,637	4,637	4,637	4,684	4,637	4,684	4,637	4,637	4,116	4,637
radius in mm	190	196	174	196	196	196	196	196	198	196	198	196	196	174	196
Adapter															
boring Ø x L in mm	66 x 80	11 x 84	13.2 x 61	13.5 x 84	13.5 x 84	17.5 x 84	13.5 x 84	13.5 x 84	13.2 x 61	17.5 x 84	17.5 x 61	17.5 x 84	17.5 x 84	13.2 x 61	13.5 x 84
vessels per rotor	4	96	108	76	76	76	76	76	108	76	88	76	76	108	76
Cat. No.	4838	4830	4847	4832	4832	4833	4832	4832	4847⁴⁾	4833	4848	4833	4833	4847	4832

	blood collection / urine vessels						tubes with screw cap							
Vessels														
capacity in ml	4-7	4-7	4-7	8	8.5-10	8.5-10	14	15	50	50	12	25	25	30
Ø x L in mm	13 x 100	16 x 75	16 x 75	16 x 125	16 x 100	16 x 100	16.5 x 106	17 x 120	29 x 115	29 x 115	17 x 100	25 x 90	25 x 90	25 x 110
max. RCF ²⁾	4,684	4,637	4,684	4,637	4,637	4,684	4,637	4,637	4,708	4,637	4,637	4,637	4,637	4,637
radius in mm	198	196	198	196	196	198	196	196	199	196	196	196	196	196
Adapter														
boring Ø x L in mm	13.2 x 61	17.5 x 84	17.5 x 61	17.5 x 84	17.5 x 84	17.5 x 61	17 x 80	17 x 80	30 x 96.5	30 x 80	17 x 80	26.5 x 84	26.5 x 84	26.5 x 84
vessels per rotor	108	76	88	76	76	88	56	56	28	20	56	28	28	28
Cat. No.	4847⁴⁾	4833	4848	4833	4833	4848	4839⁴⁾	4839	5647	4840	4839⁴⁾	4834	4834	4834

Swing-out rotor, 4-place | 5699-R

Rotor	
max. RPM max. RCF	4,600 min ⁻¹ 4,779
max. capacity	4 x 750 ml
run-up run-down, braked in sec	90 95
angle	90°
temperature in °C ¹⁾	+7
Cat. No.	5699-R

Bucket with clamp lock	
lid bioseal ⁵⁾	4883
Cat. No.	4880
Bucket without clamp lock¹⁴⁾	
Cat. No.	4885



	tubes with screw cap									5127 ²⁴⁾	Corning®	0551 ²⁴⁾	0512 ²⁴⁾	4447	4234-A	
Vessels																
capacity in ml	50	50	10	10	30	50	50	85	94	250	500	600	750	450	750	
Ø x L in mm	30 x 115	29 x 115	16 x 80	16 x 80	26 x 95	29 x 107	29 x 107	38 x 106	38 x 110	61 x 122	96 x 147	93 x 134	97 x 152	97 x 110	96 x 135	
max. RCF ²⁾	4,708	4,637	4,637	4,684	4,637	4,637	4,708	4,495	4,495	4,779	4,779	4,779	4,779	4,779	4,779	
radius in mm	199	196	196	198	196	196	199	190	190	202	202	202	202	202	202	
+											Adapter 4845 + support cushion 431124 Fa. Corning					
Adapter																
boring Ø x L in mm	30 x 96.5	30 x 80	17.5 x 84	17.5 x 61	26.5 x 84	30 x 80	30 x 96.5	42 x 80	42 x 80	62 x 100	98 x 100		94 x 95	98 x 100	98 x 100	98 x 100
vessels per rotor	28	20	76	88	28	20	28	12	12	4	4		4	4	4	4
Cat. No.	5647 ⁴⁾	4840 ⁴⁾	4833	4848	4834	4840 ⁴⁾	5647 ⁴⁾	4836	4836	4841	4845	4846	4845	4845	4845	4845

	Falcon®	Corning®	Nunc®	Nunc® ^{3.8)}	Falcon® ^{3.8)}	Greiner® ^{3.8)}	Nunc® ^{3.8)}
Vessels							
capacity in ml	30	50	40	160	200	200	200
Ø x L in mm	-	-	-	-	-	-	-
max. RCF ²⁾	4,613 ²⁷⁾	4,613 ²⁷⁾	4,613 ²⁷⁾	4,613 ²⁷⁾	4,613 ²⁷⁾	4,613 ²⁷⁾	4,613 ²⁷⁾
radius in mm	195	195	195	195	195	195	195
Adapter							
boring Ø x L in mm	-	-	-	-	-	-	-
vessels per rotor	8	8	4	8	4	4	4
Cat. No.	4849	4849	4852	4851	4831	4831	4831

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

3.8) When using these tubes, bucket 4880 cannot be closed with lid 4883.

3.9) When using these tubes, bucket 4890 cannot be closed with lid 4883.

4) Please remove the spacer.

5) Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

14) With the E3906 add-on kit and the 4783 lid, the 4885/4895 carrier can be converted at a later time to a 4780 carrier with single-hand clamp lock.

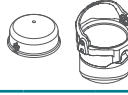
24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

27) RCF values indicated refer only to rotor performance. The max. RCF for the accommodated cell culture flasks is 2,300.

28) We recommend the use of the refrigerated ROTANTA 460 R, 460 RC, or 460 RF to ensure that the temperature of the blood is maintained during centrifugation.

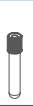
Swing-out rotor, 4-place | 5699-R

Rotor	
max. RPM max. RCF ²⁾	4,600 min ⁻¹ 5,063
max. capacity	4 x 750 ml
run-up run-down, braked in sec	90 95
angle	90°
temperature in °C ¹⁾	+7
Cat. No.	5699-R

Bucket with clamp lock	
lid bioseal ⁵⁾	4883
Cat. No.	4890
Bucket without clamp lock¹⁴⁾	
Cat. No.	4895



	microliter tubes		tubes ²⁾								blood collection / urine vessels					
Vessels																
capacity in ml	1.5	2.0	5	7	8	9	15	25	50	100	2.6-2.9	2.7-3	4-5.5	4.5-5	4.9	
Ø x L in mm	11 x 38	11 x 38	12 x 75	12 x 100	16 x 81	14 x 100	17 x 100	24 x 100	34 x 100	44 x 100	13 x 65	11 x 66	15 x 75	11 x 92	13 x 90	
max. RCF ²⁾	3 407 / 4 542	3 407 / 4 542	4 471	4 471	4 637	4 637	4 637	4 353	4 424	4 400	4 471	4 471	4 637	4 471	4 471	
radius in mm	144 / 192	144 / 192	189	189	196	196	196	184	187	186	189	189	196	189	189	
Adapter								 + 0726								
boring Ø x L in mm	11.5 x 38	11.5 x 38	13 x 58	13 x 58	17.5 x 53	17.5 x 53	17.5 x 53	26 x 72	36 x 79	45 x 78	13.5 x 58	13 x 58	17.5 x 53	13 x 58	13.5 x 58	
vessels per rotor	168	168	120	120	76	76	76	28	16	8	84	120	76	120	84	
Cat. No.	4432	4432	4433	4433	4434	4434	4434	4438	4439	4442	4435	4433	4434	4433	4435	

	blood collection / urine vessels										tubes with screw cap				
Vessels															
capacity in ml	7.5-8.2	9-10	10	1.6-5	4-7	4-7	8	8.5-10	10	15	50	25	30	50	50
Ø x L in mm	15 x 92	16 x 92	15 x 102	13 x 75	13 x 100	16 x 75	16 x 81	16 x 100	16 x 80	17 x 120	29 x 115	25 x 90	25 x 110	29 x 115	29 x 107
max. RCF ²⁾	4,637	4,637	4,637	4,471	4,471	4,637	4,637	4,637	4,637	4,755	4,613	4,566	4,566	4,613	4,613
radius in mm	196	196	196	189	189	196	196	196	196	201	195	193	193	195	195
Adapter															
boring Ø x L in mm	17.5 x 60	17.5 x 60	17.5 x 60	13.5 x 58	13.5 x 58	17.5 x 60	17.5 x 60	17.5 x 60	17.5 x 60	17 x 102	31 x 96	26 x 72	26 x 72	31 x 96	31 x 96
vessels per rotor	76	76	76	84	84	76	76	76	76	56	28	28	28	28	28
Cat. No.	4434	4434	4434	4435	4435	4434	4434	4434	4434	4469	4468	4438	4438	4468⁴⁾	4468

	5127 ²⁴⁾	- ²⁴⁾	0551 ²⁴⁾	0512 ²⁴⁾	Falcon®	Nalgene®	Nunc®	Falcon®	Corning®	Corning®	4447	4234-A	blood bags ²⁸⁾	
Vessels														
capacity in ml	250	290	600	750	175	175	200	225	250	500	450	750	450	450
Ø x L in mm	61 x 122	62 x 137	93 x 134	97 x 152	61 x 118	62 x 144	60 x 130	61 x 137	60 x 172	96 x 147	97 x 110	96 x 135	3-place-system without filter	3-place-system without filter
max. RCF ²⁾	4,873	4,873	4,873	4,873	5,063	5,063	5,063	5,063	5,063	5,063	5,063	5,063	5,063	5,063
radius in mm	206	206	206	206	214	214	214	214	214	214	214	214	214	214
Adapter														
boring Ø x L in mm	62 x 92	62 x 92	98.4 x 116	98.4 x 116	61 x 105	61 x 105	61 x 105	61 x 105	61 x 105	-	98.4 x 116	98.4 x 116	-	-
vessels per rotor	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Cat. No.	4443	4443	4451	4451	4440	4430	4430	4440	4430	4449	4451	4451	-	-

Swing-out rotor, 4-place | 5699-R

	
Rotor	
max. RPM max. RCF ²⁾	4,600 min ⁻¹ 4,637
max. capacity	4 x 450 ml
run-up run-down, braked in sec	90 95
angle temperature in °C ¹⁾	90° +10
Cat. No.	5699-R



Bucket

Cat. No.


5691-A


	5693	5695
	holder for systems without filter	holder for systems with and without filter
		
Blood bags		
capacity in ml	450	450
blood bag	3-place-System	4-place-System
max. RCF ²⁾	4,637	4,637
radius in mm	196	196



Insert

		
boring Ø x L in mm	-	-
blood bags per rotor	4	4
Cat. No.	5692	5692

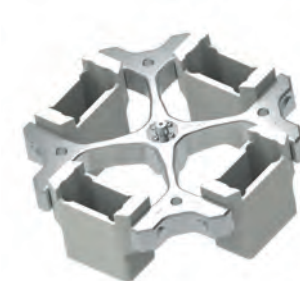
Swing-out rotor, 4-place | 5699-R

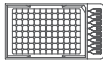
	
Rotor	
max. RPM max. RCF ²⁾	4,600 min ⁻¹ 4,921
max. capacity	12 Arrays
run-up run-down, braked in sec	90 95
angle temperature in °C ¹⁾	90° +10
Cat. No.	5699-R



Bucket

Cat. No.


5636


	-
	TagMan Array
	
Array	
capacity in ml	-
W x D x H in mm	152.5x85.5x12
max. RCF ²⁾	4,921
radius in mm	208



Adapter

	
boring Ø x L in mm	-
arrays per rotor	12
Cat. No.	5648

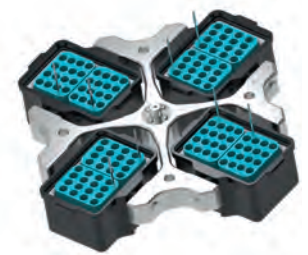
- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Swing-out rotor, 4-place | 5699-R

	
Rotor	
max. RPM max. RCF ²⁾	4,600 min ⁻¹ 4,258
max. capacity	4 x 250 ml
run-up run-down, braked in sec	90 95
angle temperature in °C ¹⁾	90° +10
Cat. No.	5699-R



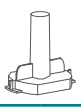
Bucket	
Cat. No.	5628 ³⁾
Adapter	
Cat. No.	5220-A



	microliter tubes		tubes ²⁾										blood collection / urine vessels		
Vessels															
capacity in ml	1.5	2.0	3	5	6	7	9	25	50	100	100	250	1.1–1.4	2.6–2.9	2.7–3
Ø x L in mm	11 x 38	11 x 38	10 x 60	12 x 75	12 x 82	12 x 100	14 x 100	24 x 100	34 x 100	44 x 100	40 x 115	65 x 115	8 x 66	13 x 65	11 x 66
max. RCF ²⁾	4,164	4,164	4,069	4,164	4,164	4,164	4,116	4,093	4,093	4,069	4,069	4,045	4,069	4,164	4,116
radius in mm	176	176	172	176	176	176	174	173	173	172	172	171	172	176	174
	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A
Adapter															
boring Ø x L in mm	11.5 x 50	11.5 x 50	11 x 44	13.5 x 52	13.5 x 52	13.5 x 52	16 x 50	26 x 82.5	36 x 82.5	45.5 x 82	42 x 82	66 x 81	11 x 44	13.5 x 52	12.5 x 39.5
vessels per rotor	128	128	160	96	96	96	96	40	16	8	8	4	160	96	160
Cat. No. ¹⁹⁾	5281	5281	5267	5268	5268	5268	5264	5242	5243	5262	5249	5263-A	5267	5268	5227

	5264	5227	5268	5264	5258	5268	5264	5268	5258	6337-B	5266 ⁴⁾	6338-B	6339-A	5263-A ⁴⁾
Vessels														
capacity in ml	4–5.5	4.5–5	4.9	7.5–8.2	9–10	1.6–5	4–7	4–7	8.5–10	15	30	50	50	250
Ø x L in mm	15 x 75	11 x 92	13 x 90	15 x 92	16 x 92	13 x 75	16 x 75	13 x 100	16 x 100	17 x 120	25 x 110	29 x 115	29 x 115	65 x 115
max. RCF ²⁾	4,116	4,116	4,164	4,116	4,093	4,164	4,116	4,164	4,093	4,258	4,187	4,258	4,187	4,045
radius in mm	174	174	176	174	173	176	174	176	173	180	177	180	177	171
	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 5220-A	+ 6319
Adapter														
boring Ø x L in mm	16 x 50	12.5 x 42	13.5 x 52	16 x 50	17.6 x 82.5	13.5 x 52	16 x 50	13.5 x 52	17.7 x 86	17 x 90	26 x 82.5	30 x 85	30 x 82	66 x 81
vessels per rotor	96	160	96	96	88	96	96	96	88	56	40	24	24	4
Cat. No. ¹⁹⁾	5264	5227	5268	5264	5258	5268	5264	5268	5258	6337-B	5266⁴⁾	6338-B	6339-A	5263-A⁴⁾

cyto chambers

	
Vessels	
capacity in ml	1–8
Ø x L in mm	simple / multiple
max. RCF ²⁾	2,744 / 4,069
radius in mm	116 / 172
Adapter	
boring Ø x L in mm	-
vessels per rotor	16
Cat. No. ¹⁹⁾	5280

CYTO

Cyto system available for this model.
More information on [page 184](#)

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- Please remove the spacer.
- Max. permissible loading weight of carrier 5628: 800 g. The loading weight is the sum of the weight of the respective adapters, frames, the tubes and their contents.
- Two adapters can be placed on each bucket.

Swing-out rotor, 4-place | 5699-R

Rotor	
max. RPM max. RCF	4,600 min ⁻¹ 3,785
max. capacity	4 x 200 ml
run-up run-down, braked in sec	90 95
angle temperature in °C ¹⁾	90° +10
Cat. No.	5699-R



Bucket	
Cat. No.	5630-B



	Nunc®	Nunc®	Falcon®	Greiner®	Nunc®
Vessels					
capacity in ml	40	160	250/260	250/260	250/260
Ø x L in mm	-	-	-	-	-
max. RCF ²⁾	3,785 ²⁾	3,785 ²⁾	3,785 ²⁾	3,785 ²⁾	3,785 ²⁾
radius in mm	180	160	160	160	160
Adapter					
boring Ø x L in mm	-	-	-	-	-
vessels per rotor	4	4	4	4	4
Cat. No.	5672	5673	5671	5671	5671

Accommodated cell culture flask:

40 ml
Nunc®, No. 156340 or 156367

160 ml
Nunc®, No. 156472 or 156499
Sarstedt®, No. 83.3911.xxx

200ml
Becton Dickinson®, No. 353024
Greiner®, No. 658170
Nunc®, No. 153732 or 147589

Swing-out rotor, 4-place | 5699-R

Rotor	
max. RPM max. RCF	4,600 min ⁻¹ 3,832
max. capacity	24 plates
run-up run-down, braked in sec	79 88
angle temperature in °C ¹⁾	90° +10
Cat. No.	5699-R



Bucket	
Cat. No.	5630-B



	MTP	MTP	CP	DWP	MS	QP	Microtest plate	PCR plate	PCR strips
Plates									
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	84x59x11	124x82x20	-
capacity in ml	-	-	-	-	-	-	-	-	0.2
max. RCF ²⁾	3,832	3,832	3,832	3,832	3,832	3,832	3,832	3,832	3,832
radius in mm	max. 162	max. 162	max. 162	max. 162	max. 162	max. 162	max. 162	max. 162	max. 162
Removal frame									
boring Ø x L in mm	-	-	-	-	-	-	-	-	-
plates / strips per rotor	24	20	16	4	4	4	8	4	48 x 8
Cat. No.	4626	4626	4626	4626	4626	4626	4626	4626 + 1485	4626 + 1485

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

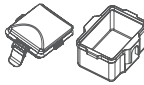
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

27) RCF values indicated refer only to rotor performance. The max. RCF for the accommodated cell culture flasks is 2,300.

Swing-out rotor, 4-place | 5699-R

Rotor	
max. RPM max. RCF	4,600 min ⁻¹ 4,211
max. capacity	24 plates
run-up run-down, braked in sec	79 88
angle temperature in °C ¹⁾	90° +10
Cat. No.	5699-R



Bucket	
lid bioseal ⁵⁾	5629
Cat. No.	5628 ⁵⁾



	MTP	MTP	CP	DWP	MS	QP	Microtest plate	PCR plate	PCR strips
Plates									
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	84x59x11	124x82x20	-
capacity in ml	-	-	-	-	-	-	-	-	0.2
max. RCF ²⁾	4,211	4,211	4,211	4,211	4,211	4,211	4,211	4,211	4,211
radius in mm	max. 178	max. 178	max. 178	max. 178	max. 178	max. 178	max. 178	max. 178	max. 178
Removal frame									
boring Ø x L in mm	-	-	-	-	-	-	-	-	-
plates / strips per rotor	24	20	16	4	4	4	8	4	48 x 8
Cat. No.	4626	4626	4626	4626	4626	4626	4626	4626 + 1485	4626 + 1485

Swing-out rotor, 4-place | 5654

Rotor	
max. RPM max. RCF	3,800 min ⁻¹ 2,890
max. capacity	24 plates
run-up run-down, braked in sec	62 58
angle max. noise level	90° 57 dB (A)
temperature in °C ¹⁾	-4
Cat. No.	5654



Bucket	
lid bioseal ⁵⁾	5629
Cat. No.	5653



	MTP	MTP	CP	DWP	MS	QP	Microtest plate	PCR plate	PCR strips
Plates									
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	84x59x11	124x82x20	-
capacity in ml	-	-	-	-	-	-	-	-	0.2
max. RCF ²⁾	2,890	2,890	2,890	2,890	2,890	2,890	2,890	2,890	2,890
radius in mm	max. 179	max. 179	max. 179	max. 179	max. 179	max. 179	max. 179	max. 179	max. 179
Removal frame									
boring Ø x L in mm	-	-	-	-	-	-	-	-	-
plates / strips per rotor	24	20	16	4	4	4	8	4	48 x 8
Cat. No.	4626	4626	4626	4626	4626	4626	4626	4626 + 1485	4626 + 1485

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- Tested by TÜV in conformity with DIN EN 61010, section 2-020.
- Max. permissible loading weight of carrier 5628: 800 g. The loading weight is the sum of the weight of the respective adapters, frames, the tubes and their contents.

Swing-out rotor, 4-place | 5654

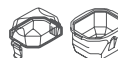
Rotor

max. RPM max. RCF	3,800 min ⁻¹ 3,196
max. capacity	4 x 1,000 ml
run-up run-down, braked in sec	62 58
angle max. noise level	90° 58 dB (A)
temperature in °C ¹⁾	+3
Cat. No.	5654



Bucket

lid bioseal ⁵⁾	5652
Cat. No.	5651-A



Vessels

capacity in ml	3	4	4	5	6	7	10	10	15	1.1–1.4	2.6–3.4	2.7–3	4.5–5	4–5.5	4.9
Ø x L in mm	10 x 60	10 x 88	12 x 60	12 x 75	12 x 82	12 x 100	13 x 100	13 x 100	17 x 100	8 x 66	13 x 65	11 x 66	11 x 92	15 x 75	13 x 90
max. RCF ²⁾	2,874	2,874	2,874	2,874	2,874	2,874	2,906	2,906	2,970	2,874	2,906	2,874	2,874	2,970	2,906
radius in mm	178	178	178	178	178	178	180	180	184	178	180	178	178	184	180



Adapter

boring Ø x L in mm	12.5 x 40	12.5 x 40	12.5 x 40	12.5 x 40	12.5 x 40	12.5 x 40	13.2 x 42.4	13.2 x 42.4	17.2 x 46.5	12.5 x 40	13.2 x 42.4	12.5 x 40	12.5 x 40	17.2 x 46.5	13.2 x 42.4
vessels per rotor	292	292	292	292	292	292	196	188	148	292	196	292	292	148	196
Cat. No.	5684	5684	5684	5684	5684	5684	5674	5685	5682	5684	5674	5684	5684	5682	5674

Vessels

capacity in ml	7.5–8.2	9–10	10	1.6–5	4–7	4–7	4–7	8.5–10	10	15	50	175	175	200	225
Ø x L in mm	15 x 92	16 x 92	15 x 102	13 x 75	16 x 75	13 x 100	13 x 100	16 x 100	16 x 80	17 x 120	29 x 115	61 x 118	62 x 144	60 x 130	61 x 137
max. RCF ²⁾	2,970	2,970	2,970	2,906	2,970	2,906	2,906	2,970	2,970	3,196	3,196	3,196	3,196	3,196	3,196
radius in mm	184	184	184	180	184	180	180	184	184	198	198	198	198	198	198



Adapter

boring Ø x L in mm	17.2 x 46.5	17.2 x 46.5	17.2 x 46.5	13.2 x 42.4	17.2 x 46.5	13.2 x 42.4	13.2 x 42.4	17.2 x 46.5	17.2 x 46.5	17 x 60	30 x 60	62 x 100	62 x 100	62 x 100	62 x 100
vessels per rotor	148	148	148	196	148	196	188	148	148	96	40	8	8	8	8
Cat. No.	5682	5682	5682	5674	5682	5674	5685	5682	5682	5683	5686	5681	5681	5681	5681

Vessels

capacity in ml	250	290	450	500	600	750	1,000
Ø x L in mm	62 x 122	62 x 137	97 x 110	96 x 147	93 x 134	97 x 152	99/126 x 140
max. RCF ²⁾	3,196	3,196	3,196	3,196	3,196	3,196	3,196
radius in mm	198	198	198	198	198	198	198



Adapter

boring Ø x L in mm	62 x 100	62 x 100	98 x 100	98 x 100	98 x 100	98 x 100	100/127 x 68
vessels per rotor	8	8	4	4	4	4	4
Cat. No.	5681	5681	5687	5687	5687	5687	5669

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 3.10) When using this tubes, bucket 5651-A cannot be closed with lid 5652.
- 5) Tested by TÜV in conformity with DIN EN 61010, section 2-020.
- 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

Swing-out rotor, 6-place | 4446



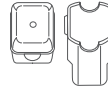
Rotor

max. RPM max. RCF	4,000 min ⁻¹ 3,631
max. capacity	6 x 100 ml
run-up run-down, braked in sec	45 55
angle max. noise level	90° 58 dB (A)
temperature in °C ¹⁾	-3
Cat. No.	4446



Bucket

lid	5053
Cat. No.	5051



Vessels

	microliter tubes				tubes ²⁾									
capacity in ml	1.5	2	1.5	2	3	5	6	7	9	15	25	50	100	100
Ø x L in mm	11 x 38	11 x 38	11 x 38	11 x 38	10 x 60	12 x 75	12 x 82	12 x 100	14 x 100	17 x 100	24 x 100	34 x 100	44 x 100	40 x 115
max. RCF ²⁾	2,486 / 3,363	2,486 / 3,363	3,363	3,363	3,274	3,309	3,309	3,291	3,309	3,291	3,291	3,291	3,291	3,291
radius in mm	139 / 188	139 / 188	188	188	183	185	185	184	185	184	184	184	184	184



Adapter

boring Ø x L in mm	12.5 x 37	12.5 x 37	11.5 x 50	11.5 x 50	11 x 44	12.5 x 37	12.5 x 37	12.5 x 82.5	16 x 50	17.5 x 86	26 x 86	36 x 86	45.5 x 86	42 x 86
vessels per rotor	240	240	96	96	120	120	120	120	72	72	30	12	6	6
Cat. No.	5257	5257	5281	5281	5267	5227	5227	5247 ¹⁵⁾	5264	5248 ¹⁵⁾	5242	5243	5262	5249

blood collection / urine vessels

Vessels

capacity in ml	1.1–1.4	2.6–2.9	2.7–3	4–5.5	4.5–5	4.9	7.5–8.2	9–10	10	1.6–5	4–7	4–7	8.5–10
Ø x L in mm	8 x 66	13 x 65	11 x 66	15 x 75	11 x 92	13 x 90	15 x 92	16 x 92	15 x 102	13 x 75	13 x 100	16 x 75	16 x 100
max. RCF ²⁾	3,274	3,345	3,309	3,309	3,309	3,345	3,309	3,291	3,291	3,345	3,345	3,309	3,291
radius in mm	183	187	185	185	185	187	185	184	184	187	187	185	184



Adapter

boring Ø x L in mm	11 x 44	13.5 x 52	12.5 x 42	16 x 50	12.5 x 42	13.5 x 52	16 x 50	17.6 x 86	17.6 x 86	13.5 x 52	13.5 x 52	16 x 50	17.5 x 86
vessels per rotor	120	72	120	72	120	72	72	66	66	72	72	72	72
Cat. No.	5267	5268	5227	5264	5227	5268	5264	5258	5258	5268	5268	5264	5248

tubes with screw cap

cyto chambers

Vessels

capacity in ml	15	50	12	50	1–8
Ø x L in mm	17 x 120	30 x 115	17 x 100	29 x 115	simple / multiple
max. RCF ²⁾	3,434	3,291	3,434	3,291	2,290 / 3,291
radius in mm	192	188	192	184	128 / 184



Adapter

boring Ø x L in mm	17 x 90	30 x 86	17 x 90	36 x 86	-
vessels per rotor	42	12	42	12	12
Cat. No.	6306	5259	6306	5243	5280

CYTO

Cyto system available for this model.
More information on [page 184](#)

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- When using these tubes, bucket 5051 cannot be closed with lid 5053.
- With Cat. No. 5247-91 or 5248-91 these adapters can also be ordered with a decanting aid.

Swing-out rotor, 6-place | 4446



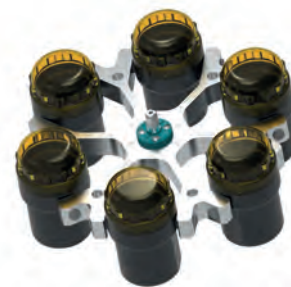
Rotor

max. RPM max. RCF	4,000 min ¹ 3,631
max. capacity	6 x 290 ml
run-up run-down, braked in sec	38 46
angle temperature in °C ¹⁾	90° -3
Cat. No.	4446



Bucket

lid bioseal ⁵⁾	5093
Cat. No.	5092



Vessels

	5	6	7	15	25	50	100	100	250	1.1–1.4	1.1–1.4	2.6–2.9	2.6–2.9	2.7–3	2.7–3
capacity in ml	5	6	7	15	25	50	100	100	250	1.1–1.4	1.1–1.4	2.6–2.9	2.6–2.9	2.7–3	2.7–3
Ø x L in mm	12x75	12x82	12x100	17x100	24x100	34x100	44x100	40x115	65x115	8 x 66	8 x 66	13 x 65	13 x 65	11x66	11x66
max. RCF ²⁾	3,542	3,542	3,542	3,488	3,434	3,631	3,488	3,488	3,631	3,488	3,077	3,488	3,077	3,488	3,077
radius in mm	198	198	198	195	192	195	195	195	203	195	172	195	172	195	172



Adapter

boring Ø x L in mm	12.8x42	12.8x42	12.8x79.5	17.5x56.7	25.5x74	35.5x77.5	45.5x76.5	42x76.5	66x103	13.5x56.7	12.8x54.5	13.5x56.7	12.8x54.5	13.5x56.7	12.8x54.5
vessels per rotor	72	72	72	48	24	6	6	6	6	48	72	48	72	48	72
Cat. No.	5128	5128	5120	5136	5122	5124	5125	5126	1791	5137	5138	5137	5138	5137	5138

Vessels

	4.9	4–4.5	4.5–5	7.5–8.2	9–10	10	1.6–5	1.6–5	4–7	4–7	8	8.5–10	10	15	30
capacity in ml	4.9	4–4.5	4.5–5	7.5–8.2	9–10	10	1.6–5	1.6–5	4–7	4–7	8	8.5–10	10	15	30
Ø x L in mm	13x90	15x75	11x92	15x92	16x92	15x102	13x75	13x75	16x75	13x100	16x125	16x100	16x80	17x120	25x110
max. RCF ²⁾	3,488	3,488	3,542	3,488	3,488	3,488	3,488	3,077	3,488	3,542	3,542	3,488	3,488	3,631	3,327
radius in mm	195	195	198	195	195	195	195	172	195	198	198	195	195	203	192



Adapter

boring Ø x L in mm	13.5x56.7	17.5x56.7	12.8x79.5	17.5x56.7	17.5x56.7	17.5x56.7	13.5x56.7	12.8x54.5	17.5x56.7	12.8x79.5	17.5x79.5	17.5x56.7	17.5x56.7	17x85	25.5x74
vessels per rotor	48	48	72	48	48	48	48	72	48	72	42	48	48	42	24
Cat. No.	5137	5136	5120	5136	5136	5136	5137	5138	5136	5120	5121	5136	5136	5129	5122

Vessels

	50	50	12	25	30	250	290
capacity in ml	50	50	12	25	30	250	290
Ø x L in mm	30x115	29x115	17x100	25x90	25x110	62x122	62x137
max. RCF ²⁾	3,631	3,560	3,542	3,363	3,327	3,631	3,631
radius in mm	203	199	198	188	192	203	203

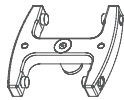


Adapter

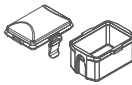
boring Ø x L in mm	30x85	30x99	17.5x79.5	26x73	25.5x74	62x90	62x90
vessels per rotor	12	12	42	18	24	6	6
Cat. No.	5123	5135	5121	5134	5122	6319	6319

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 3.5) When using these tubes, bucket 5092 cannot be closed with lid 5053.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2-020.
- 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

— Swing-out rotor, 2-place | 5622

Rotor	
max. RPM	ROTANTA 460 460 R 5,900 min ⁻¹ 6,200 min ⁻¹
max. RCF	5,838 6,446
max. capacity	12 plates
run-up run-down, braked in sec	50 52 32 39
angle temperature in °C ¹⁾	90° +10
Cat. No.	5622



Bucket	
lid bioseal ⁵⁾	4627
Cat. No.	5631



	MTP	MTP	CP	DWP	MS	QP	Microtest plate	PCR plate 96 wells	PCR strips
Plates									
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	84x59x11	124x82x20	-
capacity in ml	-	-	-	-	-	-	-	-	0.2
max. RCF ²⁾ ROTANTA 460 460 R	5,838 6,446	5,838 6,446	5,838 6,446	5,838 6,446	5,838 6,446	5,838 6,446	5,838 6,446	5,838 6,446	5,838 6,446
radius in mm	150	150	150	150	150	150	150	150	150
Removal frame									
boring Ø x L in mm	-	-	-	-	-	-	-	-	-
vessels per rotor	12	10	8	2	2	2	4	2	24
Cat. No.	4626	4626	4626	4626	4626	4626	4626	4626 + 1485	4626 + 1485

— Swing-out rotor, 4-place | 4474

Rotor	
max. RPM max. RCF	2,000 min ⁻¹ 984
max. capacity	4 x 100 ml
run-up run-down, braked in sec	14 17
angle max. noise level	90° 46 dB (A)
temperature in °C ¹⁾	-8
Cat. No.	4474



Bucket	
Cat. No.	4275



	ASTM 0528 ^{2,1)}	ASTM ^{2,1)}	ASTM 0531 ^{2,1)}	Babcock
Vessels				
capacity in ml	100	100	100	50
Ø x L in mm	58 x 161	44 x 168	37 x 200	36.5 x 185
max. RCF ²⁾	984	961	961	912
radius in mm	220	215	215	204
Adapter				
boring Ø x L in mm	-	-	-	-
vessels per rotor	4	4	4	4
Cat. No.	0771	4277	4276-B	0703-A

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2.1) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of vessels used should be verified with the individual manufacturers. The max. RCF for ASTM Tubes annotated with footnote 2) is 700.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

Angle rotor, 30-place | 4489-A

Rotor	
max. RPM max. RCF	15,000 min ⁻¹ 24,400
max. capacity	30 x 2 ml
run-up run-down, braked in sec	65 63
angle temperature in °C ¹⁾	45° +4
Cat. No.	4489-A

+ Lid bioseal[®]
and phenol-resistant
Cat. No.



INCLUSIVE



	microliter tubes						Pediatric
Vessels							
capacity in ml	0.2	0.4	0.5	0.8	1.5	2	0.5
Ø x L in mm	6 x 18	6 x 45	8 x 30	8 x 45	11 x 38	11 x 38	10.7 x 46
max. RCF ²⁾	24,400	24,400	24,400	24,400	24,400	24,400	23,394
radius in mm	97	97	97	97	97	97	93
Adapter							
boring Ø x L in mm	6 x 40	6 x 40	8 x 40	8 x 40	10.2 x 19.3	11.2 x 40.1	11.2 x 40.1
vessels per rotor	30	30	30	30	30	30	15
Cat. No.	2024	2024	2023	2023	2031⁷⁾	-	0788

Angle rotor, 6-place | 5645

Rotor	
max. RPM ROTANTA 460 460 R	8,500 min ⁻¹ 9,500 min ⁻¹
max. RCF	11,228 14,025
max. capacity	6 x 250 ml
run-up run-down, braked in sec	98 115 105 120
angle temperature in °C ¹⁾	25° +7
Cat. No.	5645

+ Lid bioseal[®]
Cat. No.



INCLUSIVE



	tubes ²⁾			tubes with screw cap								5127 ²⁴⁾
Vessels												
capacity in ml	15	25	94	15	50	10	30	50	85	94	250	
Ø x L in mm	17 x 100	24 x 100	38 x 110	17 x 120	29 x 115	16 x 80	26 x 95	29 x 107	38 x 106	38 x 110	61.5 x 122	
max. RCF ²⁾ ROTANTA 460	10,662	10,339	9,855	10,824	9,693	10,743	10,339	9,693	9,855	9,855	11,228	
max. RCF ²⁾ ROTANTA 460 R	13,319	12,915	12,310	13,521	12,108	13,420	12,915	12,108	12,310	12,310	14,025	
radius in mm	132	128	122	134	118	133	128	120	122	122	139	
Adapter												
boring Ø x L in mm	17.6 x 83	26 x 80	38.6 x 88	17 x 106	30 x 100	16.6 x 70	26 x 80	29 x 90	38.6 x 88	38.6 x 88	61.5 x 109	
vessels per rotor	42	18	6	30	6	48	18	6	6	6	6	
Cat. No.	5646	5642	5644	5637	5638	5641	5642	5643	5644	5644	-	

Angle rotor, 6-place | 5615

Rotor	
max. RPM max. RCF	11,500 min ⁻¹ 18,038
max. capacity	6 x 94 ml
run-up run-down, braked in sec	58 64
angle temperature in °C ¹⁾	45° +6
Cat. No.	5615


Lid bioseal ⁵⁾

Cat. No.

INCLUSIVE


	Pediatric	microliter tubes			tubes ²⁾				blood collection / urine tubes				-	tubes with screw cap	
Vessels															
capacity in ml	0.5	1.5	2.0	3	15	25	50	94	7.5 – 8.2	9 – 10	10	8.5 – 10	5	15	50
Ø x L in mm	10.7 x 46	11 x 38	11 x 38	10 x 60	17 x 100	24 x 100	34 x 100	38 x 110	15 x 92	16 x 92	15 x 102	16 x 100	17 x 51	17 x 120	29 x 115
max. RCF ²⁾	17,299	17,299	17,299	17,299	17,003	16,560	17,743	18,038	17,003	17,003	17,003	17,003	16,856	17,299	17,595
radius in mm	117	117	117	117	115	112	120	122	115	115	115	115	114	117	119
Adapter															
boring Ø x L in mm	11.4 x 39	11.4 x 39	11.4 x 39	11.4 x 39	17.5 x 92	26 x 85	35 x 89	38.2 x 89.6	17.5 x 92	17.5 x 92	17.5 x 92	17.5 x 92	17 x 51	17 x 106	29.8 x 97
vessels per rotor	24	24	24	24	6	6	6	6	6	6	6	6	6	6	6
Cat. No.	1449	1449	1449	1449	1451	1447	1463	-	1451	1451	1451	1451	1476	1466	1454

tubes with screw cap

Vessels				
capacity in ml	10	30	50	85
Ø x L in mm	16 x 80	26 x 95	29 x 107	38 x 106
max. RCF ²⁾	17,003	16,560	17,299	18,038
radius in mm	115	112	117	122
Adapter				
boring Ø x L in mm	16.5 x 74	26 x 85	29 x 92	38.2 x 89.6
vessels per rotor	12	6	6	6
Cat. No.	1448	1447	1446	-

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2-020.
- 7) For centrifugation at high speeds, we recommend to use form-fitting, phenol-resistant adapters. Cat. No. 2031.
- 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

Packages ROTANTA 460 | 460 R

ROTANTA 460 CONICAL PACKAGE 1		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 centrifuge	5650	96	15	17 x 120	3,800	3,196
- 1 x Swing-out rotor, 4-place	5654	40	50	29 x 115	3,800	3,196
- 4 x bucket	5651-A					
- 4 x adapter, 24-place (conical)	5683					
- 4 x adapter, 10-place (conical)	5686					

5650SET1

ROTANTA 460 CONICAL PACKAGE 2		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 centrifuge	5650	56	15	17 x 120	4,600	4,637
- 1 x Swing-out rotor, 4-place	5699-R	28	50	30 x 115	4,600	4,708
- 4 x bucket	4885					
- 4 x adapter, 14-place (conical)	4839					
- 4 x adapter, 7-place (conical)	5647					

5650SET2

ROTANTA 460 R CONICAL PACKAGE 1		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 R centrifuge	5660	56	15	17 x 120	4,600	4,755
- 1 x Swing-out rotor, 4-place	5699-R	28	50	29 x 115	4,600	4,613
- 4 x bucket	4890					
- 4 x lid (bioseal)	4883					
- 4 x adapter, 7-place (conical)	4468					
- 4 x adapter, 14-place (conical)	4469					

5660SET1

ROTANTA 460 R CONICAL PACKAGE 2		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 R centrifuge	5660	96	15	17 x 120	3,800	3,196
- 1 x Swing-out rotor, 4-place	5654	40	50	30 x 115	3,800	3,196
- 4 x bucket	5651-A					
- 4 x adapter, 24-place (conical)	5683					
- 4 x adapter, 10-place (conical)	5686					

5660SET2

ROTANTA 460 R CONICAL PACKAGE 3		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 R centrifuge	5660	56	15	17 x 120	4,600	4,637
- 1 x Swing-out rotor, 4-place	5699-R	28	50	30 x 115	4,600	4,708
- 4 x bucket	4885					
- 4 x adapter, 14-place (conical)	4839					
- 4 x adapter, 7-place (conical)	5647					

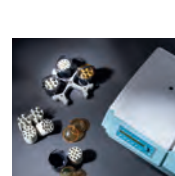
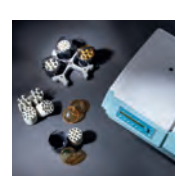
5660SET3

ROTANTA 460 R BLOOD TUBES PACKAGE 4		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 R centrifuge	5660	196	4-7	13 x 90/100	3,800	2,906
- 1 x Swing-out rotor, 4-place	5654	148	4-15	17 x 100	3,800	2,970
- 4 x bucket	5651-A					
- 4 x lid (bioseal)	5652					
- 4 x adapter, 47-place	5685					
- 4 x adapter, 37-place	5682					

5660SET4

ROTANTA 460 R BLOOD TUBES PACKAGE 5		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 R centrifuge	5660	108	1.6 - 7	13 x 90/100	4,600	4,684
- 1 x Swing-out rotor, 4-place	5699-R	88	4 - 10	16 x 100	4,600	4,684
- 4 x bucket	4880					
- 4 x lid (bioseal)	4883					
- 4 x adapter, 27-place	4847					
- 4 x adapter, 22-place	4848					

5660SET5



— Packages ROTANTA 460 RF

ROTANTA 460 RF CONICAL PACKAGE 1

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 RF centrifuge	5675	96	15	17 x 120	3,800	3,196
- 1 x Swing-out rotor, 4-place	5654	40	50	29 x 115	3,800	3,196
- 4 x bucket	5651-A					
- 4 x adapter, 24-place (conical)	5683					
- 4 x adapter, 10-place (conical)	5686					

5675SET1

ROTANTA 460 RF CONICAL PACKAGE 2

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 RF centrifuge	5675	56	15	17 x 120	4,600	4,637
- 1 x Swing-out rotor, 4-place	5699-R	28	50	30 x 115	4,600	4,708
- 4 x bucket	4885					
- 4 x adapter, 14-place (conical)	4839					
- 4 x adapter, 7-place (conical)	5647					

5675SET2

ROTANTA 460 RF BLOOD TUBE PACKAGE 3

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 RF centrifuge	5675	188	4-10	13 x 90/100	3,800	2,906
- 1 x Swing-out rotor, 4-place	5654	148	4-15	17 x 100	3,800	2,970
- 4 x bucket	5651-A					
- 4 x lid (bioseal)	5652					
- 4 x adapter, 47-place	5685					
- 4 x adapter, 37-place	5682					

5675SET3

ROTANTA 460 RF BLOOD TUBE PACKAGE 4

		number of vessels	volume (ml)	size (mm)	RPM	RCF
- 1 x ROTANTA 460 RF centrifuge	5675	108	1.6 -7	13 x 90/100	4,600	4,684
- 1 x Swing-out rotor, 4-place	5699-R	88	4 - 10	16 x 100	4,600	4,684
- 4 x bucket	4880					
- 4 x lid (bioseal)	4883					
- 4 x adapter, 27-place	4847					
- 4 x adapter, 22-place	4848					

5675SET4



ROTOFIX 46 | 46 H

Robust industrial unit

These are ideal centrifuges for research and industrial laboratories. They are robust and can withstand intensive usage, in the field. Specialty buckets are able to hold ASTM pear-shaped and conical tubes for petroleum testing. Heated option provides chamber temperature up to +90 °C (ROTOFIX 46 H).

Features

- Max. RPM: 4,000 min⁻¹ | 2.000 min⁻¹ – adjustable in increments of 10
- Max. RCF: 3,095 | 984
- Max. capacity: 4 x 290 ml | 4 x 100 ml
- Robust and versatile benchtop centrifuge
- Choice of 4 rotors
- Maximum noise level of ≤ 58 dB(A)
- Impulse button for short centrifugation
- Easy operation with keypad
- Model 46 H heatable from +10 to +90 °C

Fields of application

- Petrochemical laboratories
- Automobile industry
- Chemical laboratories



More information about the control panel can be found on [page 206](#)

GENERAL
PURPOSE



Find out more
about the product.



Technical data

	ROTOFIX 46 non-refrigerated	ROTOFIX 46 H heated
voltage *)	200 – 240 V 1 ~	200 – 240 V 1 ~
frequency	50 – 60 Hz	50 – 60 Hz
consumption	460 VA	600 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	4 x 290 ml	4 x 100 ml
max. RPM	4,000 min ⁻¹	2,000 min ⁻¹
max. RCF	3,095	984
running time	1 – 99 min : 59 sec, ∞ continuous run, short cycle mode (impulse button)	1 – 99 min : 59 sec, ∞ continuous run, short cycle mode (impulse button)
dimesions (WxDxH)	538 x 647 x 345 mm	538 x 647 x 345 mm
weight	approx. 60 kg	approx. 60 kg
noise level	58 dB (A) with rotor 4474	58 dB (A) with rotor 4474
temperature setting, infinitely variable (dependent on the ambient temperature)	-	from +10 to +90 °C
Cat. No.	4600	4600-50
100 – 127 V 1 ~ / 50 – 60 Hz *)	4600-01	4600-51
consumption	500 VA	650 VA
emission, immunity	FCC class B	FCC class B

*) Other voltages on request.

Available rotors

SWING-OUT ROTORS		angle	max. RPM	max. capacity	Cat. No.	page
	Swing-out rotor, 4-place	90°	2,000 min ⁻¹	4 x 100 ml	4474	138
	Swing-out rotor, 4-place	90°	4,000 min ⁻¹	4 x 290 ml	5694	138

Swing-out rotor, 4-place | 4474

Rotor		Bucket	
max. RPM max. RCF	2,000 min ⁻¹ 984	Cat. No.	4275
max. capacity	4 x 100 ml		
run-up run-down, braked in sec	16 40		
angle max. noise level	90° 58 dB (A)		
Cat. No.	4474		



	ASTM ^{2,1)}	0528 ^{2,1)}	ASTM ^{2,1)}	0531 ^{2,1)}	Babcock
Tubes					
capacity in ml	50	100	100	100	50
Ø x L in mm	45 x 130	58 x 161	44 x 168	37 x 200	36.5 x 185
max. RCF ^{2,1)}	984	984	961	961	912
radius in mm	220	220	215	215	204
Adapter					
boring Ø x L in mm	-	-	-	-	-
tubes per rotor	4	4	4	4	4
Cat. No.	4278-A	0771	4277	4276-B	0703-A

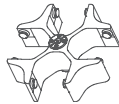
Swing-out rotor, 4-place | 5694 (not for 46 H)

Rotor		Bucket	
max. RPM max. RCF	4,000 min ⁻¹ 3,095	Cat. No.	5051
max. capacity	4 x 100 ml		
run-up run-down, braked in sec	40 45		
angle max. noise level	90° 58 dB (A)		
Cat. No.	5694		



	tubes ²⁾										tubes with screw cap			
Tubes														
capacity in ml	3	5	6	7	9	15	25	50	100	100	15	50	12	50
Ø x L in mm	10 x 60	12 x 75	12 x 82	12 x 100	14 x 100	17 x 100	24 x 100	34 x 100	44 x 100	40 x 115	17 x 120	29 x 115	17 x 100	29 x 115
max. RCF ²⁾	2,737	2,773	2,773	2,755	2,773	2,755	2,755	2,755	2,755	2,755	2,898	2,844	2,898	2,755
radius in mm	153	155	155	154	155	154	154	154	154	154	162	158	162	154
Adapter														
boring Ø x L in mm	11 x 44	12.5 x 39.5	12.5 x 39.5	12.5 x 82.5	16 x 50	17.5 x 82.5	26 x 82.5	36 x 82.5	45.5 x 82.5	42 x 82.5	17 x 90	30 x 82.5	17 x 90	36 x 82.5
tubes per rotor	80	80	80	80	48	48	20	8	4	4	28	8	28	8
Cat. No.	5267	5227	5227	5247 ¹⁵⁾	5264	5248 ¹⁵⁾	5242	5243	5262	5249	6306	5259	6306	5243 ⁴⁾

Swing-out rotor, 4-place | 5694 (not for 46 H)



Rotor

max. RPM max. RCF ²⁾	4,000 min ⁻¹ 3,095
max. capacity	4 x 290 ml
run-up run-down, braked in sec	40 45
angle max. noise level	90° 58 dB (A)
Cat. No.	5694



Bucket

lid bioseal ⁵⁾	5093
Cat. No.	5092



Tubes

	tubes ²⁾								tubes with screw cap							5127 ²⁴⁾
capacity in ml	5	7	15	25	50	100	100	250	15	50	12	25	30	25	250	
Ø x L in mm	13 x 75	12 x 100	17 x 100	24 x 100	34 x 100	44 x 100	40 x 115	65 x 115	17 x 120	29 x 115	17 x 100	25 x 90	25 x 110	25 x 90	61 x 122	
max. RCF ²⁾	3,005	3,005	2,952	2,898	2,952	2,952	2,952	3,095	3,095	3,095	3,005	2,826	2,898	2,826	3,095	
radius in mm	168	168	165	162	165	165	165	173	173	173	168	158	162	158	173	



Adapter

boring Ø x L in mm	12.8 x 42	13.2 x 82	17.5 x 56.7	25.5 x 74	35.5 x 77.5	45.5 x 76.5	42 x 76.5	66 x 103	17 x 85	30 x 85	17.5 x 79.5	26 x 73	25.5 x 74	26 x 73	62 x 90	
tubes per rotor	48	48	32	16	4	4	4	8	28	8	28	12	16	12	4	
Cat. No.	5128	5120	5136	5122	5124	5125	5126	1791	5129	5123	5121	5134	5122	5134	6319	

... 24)



Tubes

capacity in ml	290
Ø x L in mm	62 x 137
max. RCF ²⁾	3,095
radius in mm	173



Adapter

boring Ø x L in mm	62 x 90
tubes per rotor	4
Cat. No.	6319



2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

2.1) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of vessels used should be verified with the individual manufacturers. The max. RCF for ASTM Tubes annotated with footnote 2) is 700.

3.11) When using these tubes, bucket 5051 cannot be closed with lid 5053.

4) Please remove the spacer.

5) Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

15) Also available with decanting aid. (Cat. No. 5247-91 or 5248-91).

24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

FLOORSTANDING CENTRIFUGES

High performance, throughput and capacity



ROTANTA 460 RC | 460 RF
on page 142



ROTIXA 500 RS
on page 144



ROTO SILENTA 630 RS
on page 156

04

ROTANTA 460 RC | 460 RF

The capability of a benchtop without the footprint

This modified version of the standard ROTANTA 460 allows for space saving storage below the bench and frees valuable working space on the benchtop. Both units include refrigeration with a temperature range from -20 °C to +40 °C.

— Features

- RPM: 50 - 15,000 min⁻¹ – adjustable in increments of 10
- RCF: 1 - 24,400 – adjustable in increments of 1
- Available in two versions as a floor-standing unit or under-bench model
- Max. capacity: 4 x 1,000 ml
- Choice of 8 rotors
- Medical device according to regulation (EU) 2017/745
- 9 individual acceleration and 19 deceleration stages
- Easy operation with keypad and control knob
- 98 program memories for more individuality
- Refrigerated from -20 to +40 °C with pre-cooling function

— Fields of application

- Hospitals
- Blood centers
- Cell Culture Laboratories



Centrifuge packages for the model can be found on [page 134](#)



More information about the control panel can be found on [page 206](#)



ROTANTA 460 RF

ROTANTA 460 RC



Find out more about the product.

Technical data

	ROTANTA 460 RC refrigerated	ROTANTA 460 RF refrigerated
voltage *)	200 – 240 V 1 ~	200 – 240 V 1 ~
frequency	50 Hz	50 Hz
consumption	1,800 VA	2,000 VA
emission, immunity	EN/IEC 61326-1, class B	EN/IEC 61326-1, class B
max. capacity	4 x 1,000 ml	4 x 1,000 ml
max. RPM	15,000 min ⁻¹	15,000 min ⁻¹
max. RCF	24,400	24,400
running time	1 – 99 h: 59 min: 59 s, ∞ continuous run, short cycle mode	1 – 99 h: 59 min: 59 s, ∞ continuous run, short cycle mode
dimensions (WxDxH)	554x697x683 mm	554x697x961 mm
weight	approx. 140 kg	approx. 164 kg
noise level	60 dB (A) with rotor 4474	60 dB (A) with rotor 4474
temperature control, infinitely variable	from -20 to +40 °C	from -20 to +40 °C
Cat. No.	5670	5675
100 – 127 V 1 ~ / 60 Hz ¹⁾	-	5675-01
emission, immunity	-	FCC class B
weight	-	approx. 174 kg

*) Other voltages on request.

Available rotors (identical to the ROTANTA 460 | 460 R)

SWING-OUT ROTORS	angle	max. RPM	max. capacity	Cat. No.	page
 Swing-out rotor, 4-place	90°	4,600 min ⁻¹	4x750 ml	5699-R	118
 Swing-out rotor, 4-place	90°	3,800 min ⁻¹	4x750 ml	5654	127
 Swing-out rotor, 6-place	90°	4,000 min ⁻¹	6x290 ml	4446	129
 Swing-out rotor, 4-place	90°	2,000 min ⁻¹	4x100 ml	4474	131
 Swing-out rotor, 2-place	90°	5,900 min ⁻¹ / 6,200 min ⁻¹	12 plates	5622	131
ANGLE ROTORS					
 angle rotor, 30-place	45°	15,000 min ⁻¹	30x2 ml	4489-A	132
 angle rotor, 6-place	25°	8,500 min ⁻¹ / 9,500 min ⁻¹	6x250 ml	5645	132
 angle rotor, 6-place	45°	11,500 min ⁻¹	6x94 ml	5615	133

ROTIXA 500 RS

Small footprint – high volumes

Its durable components make the ROTIXA 500 RS a reliable unit with a long service life. High sample capacity and maximum RCF of 18,038 make it suitable for 4 x 450-1,000 ml blood bags. Specially designed buckets keep blood bags upright during centrifugation for improved separation of blood components.

In industrial research laboratories, 4 bottles up to 1,000 ml, special racks as well as containers and vessels for various applications can be accommodated. This unit includes refrigeration with a temperature range from -20 °C to +40 °C.

— Features

- RPM: 50 - 11,500 min⁻¹ – adjustable in increments of 10
- RCF: 50 - 18,038 – adjustable in increments of 1
- Max. capacity: 4 x 1,000 ml
- Choice of 5 rotors
- Medical device according to regulation (EU) 2017/745
- Easy operation with keypad and control knob
- 89 program memories for more individuality
- 9 individual acceleration and 19 deceleration stages

— Fields of application

- Hospitals
- Blood centers
- Cell culture laboratories



Documentation system for blood banks.
More information on [page 166](#)



More information about the control panel
can be found on [page 206](#)



CE 0483



Find out more
about the product.

Technical data

ROTIXA 500 RS refrigerated

voltage *)	230 – 240 V 1 ~	220 V 1 ~
frequency	50 Hz	60 Hz
consumption	3,800 VA	
emission, immunity	EN/IEC 61326-1, class B	
max. capacity	4 x 1,000 ml	
max. RPM	11,500 min ⁻¹	
max. RCF	18,038	
running time	1 – 999 min: 59 s, ∞ continuous run	
dimensions (WxDxH)	650x814x973 mm	
weight	approx. 219 kg	
noise level	58 dB (A) with rotor 4282	
temperature control, infinitely variable	from -20 to +40 °C	
Cat. No.	4950	

*) Other voltages on request.

GMP variant	Power supply	Frequency	Cat. No.
ROTIXA 500 RS	GMP, internal cooling unit with water-cooled condenser	220 – 240 V	50 – 60 Hz
			4950-80

Available rotors

SWING-OUT ROTORS

		angle	max. RPM	max. capacity	Cat. No.	page
	Swing-out rotor, 4-place	90°	4,500 min ⁻¹	4 x 1,000 ml	4294	146
	Swing-out rotor, 6-place	90°	4,000 min ⁻¹	6 x 250 ml	4296	151
	Swing-out rotor, 2-place	90°	3,600 min ⁻¹	20 plates	4282	153

ANGLE ROTORS

	angle rotor, 6-place	25°	9,500 min ⁻¹	6 x 250 ml	4266	154
	angle rotor, 6-place	45°	11,500 min ⁻¹	6 x 94 ml	4246	155

Swing-out rotor, 4-place | 4294

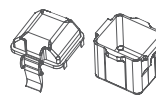
Rotor

max. RPM max. RCF ²⁾	4,500 min ⁻¹ 4,958
max. capacity	4 x 750 ml
run-up run-down, braked in sec	115 116
angle temperature in °C ¹⁾	90° +6
Cat. No.	4294



Bucket

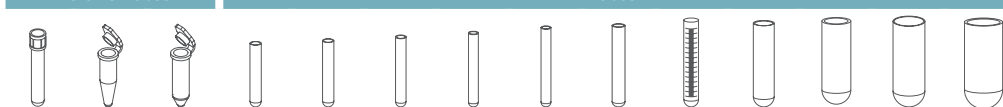
lid	4229-B
Cat. No.	4295-A



Tubes

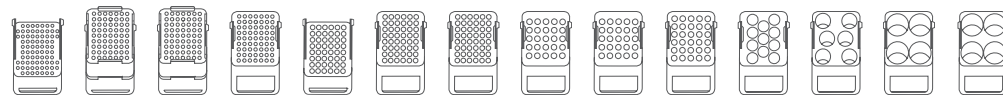
	0.8	1.5	2.0	4	5	6	7	9	12	15	25	50	94	100
capacity in ml	0.8	1.5	2.0	4	5	6	7	9	12	15	25	50	94	100
Ø x L in mm	8x45	11x38	11x38	10x88	12x75	12x82	12x100	14x100	16x101	17x100	24x100	34x100	38x102	40x115
max. RCF ²⁾	4,777	3,690	4,867	4,777	4,777	4,777	4,777	4,777	4,777	4,777	4,777	4,777	4,777	4,777
radius in mm	211	163	215	211	211	211	211	211	211	211	211	211	211	211

microliter tubes



Adapter

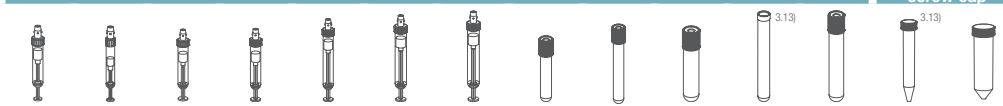
boring Ø x L in mm	8.2x32	11.2x40	11.2x40	11x70	12.5x32	12.5x70	12.5x70	16x70	16x70	17.5x74	26x70	35x70	41.5x70	41.5x70
tubes per rotor	312	336	336	252	192	192	192	100	100	120	44	24	16	16
Cat. No.	4226	4225	4225	4224	4213-93	4213	4213	4223	4223	4214	4215	4216	4218	4218



Tubes

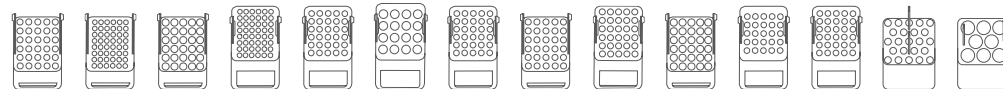
	2.6-3.4	2.7-3	4-5.5	4.5-5	7.5-8.2	9-10	10	1.6-5	4-7	4-7	8	8.5-10	15	50
capacity in ml	2.6-3.4	2.7-3	4-5.5	4.5-5	7.5-8.2	9-10	10	1.6-5	4-7	4-7	8	8.5-10	15	50
Ø x L in mm	13 x 65	11x66	15x75	11x92	15x92	16x92	15x102	13 x 75	13 x 100	16x75	16x125	16x100	17x120	29x115
max. RCF ²⁾	4,777	4,777	4,777	4,777	4,777	4,777	4,777	4,777	4,777	4,777	4,777	4,777	4,958	4,958
radius in mm	211	211	211	211	211	211	211	211	211	211	211	211	219	219

blood collection / urine tubes



Adapter

boring Ø x L in mm	13.2x32	12.5x32	17.5x32	12.5x70	17.5x74	17.5x70	17.5x74	13.2x32	13.2x70	17.5x32	16x70	17.5x74	17x70	30x70
tubes per rotor	120	192	120	192	120	64	120	120	120	120	100	120	92	32
Cat. No.	4222-93	4213-93	4214-93	4213	4214	4220	4214	4222-93	4222	4214-93	4223	4214	4232	4245-A



Tubes

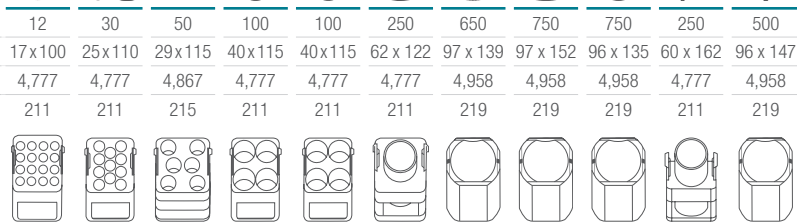
	12	30	50	100	100	250	650	750	750	250	500
capacity in ml	12	30	50	100	100	250	650	750	750	250	500
Ø x L in mm	17x100	25x110	29x115	40x115	40x115	62 x 122	97 x 139	97 x 152	96 x 135	60 x 162	96 x 147
max. RCF ²⁾	4,777	4,777	4,867	4,777	4,777	4,777	4,958	4,958	4,958	4,777	4,958
radius in mm	211	211	215	211	211	211	219	219	219	211	219

tubes with screw cap



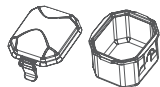
Adapter

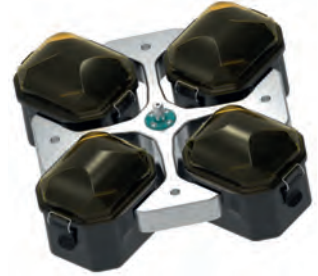
boring Ø x L in mm	17.5x70	26 x 70	30 x 96	41.5 x 70	41.5 x 70	62 x 90	97.5x105	97.5x105	97.5x105	62 x 125	97.5x105
tubes per rotor	64	44	24	16	16	4	4	4	4	4	4
Cat. No.	4220	4215	4249	4218	4218	4238	4258	4258	4258	6322	4258



Swing-out rotor, 4-place | 4294

	
Rotor	
max. RPM max. RCF ²⁾	4.500 min ⁻¹ 4.618
max. capacity	40 x 50 ml
run-up run-down, braked in sec	115 116
angle	90°
temperature in °C ¹⁾	+2
Cat. No.	4294

	
Bucket	
lid bioseal ³⁾	4291
Cat. No.	4290



	tubes ²⁾					blood collection / urine tubes									
Tubes															
capacity in ml	5	6	7	9	14	2.6-3.4	4.9	4-5.5	7.5-8.2	9-10	10	1.6-5	4-7	4-7	8.5-10
Ø x L in mm	12x75	12x82	12x100	14x100	16x101	13x65	13x90	15x75	15x92	16x92	15x102	13x75	13x100	16x75	16x100
max. RCF ²⁾	4,551	4,551	4,551	4,551	4,551	4,551	4,551	4,551	4,551	4,573	4,573	4,551	4,551	4,551	4,551
radius in mm	201	201	201	201	201	201	201	201	201	202	202	201	201	201	201
Adapter															
boring Ø x L in mm	13.2x57	13.2x57	13.2x57	17.5x62	17.5x62	13.2x57	13.2x57	17.5x62	17.5x62	17.5x63	17.5x63	13.2x57	13.2x57	17.5x62	17.5x62
tubes per rotor	200	200	200	168	168	200	200	168	168	132	132	200	200	168	168
Cat. No.	4273	4273	4273	4338	4338	4273	4273	4338	4338	4311	4311	4273	4273	4338	4338

	tubes with screw cap								
Tubes									
capacity in ml	15	10	12	15	15	50	50	50	50
Ø x L in mm	17x100	16x80	17x100	17x120	17x120	29x115	29x115	29x115	29x115
max. RCF ²⁾	4,551	4,551	4,437	4,607	4,607	4,607	4,607	4,517	4,517
radius in mm	201	201	196	204	204	204	204	200	200
Adapter									
boring Ø x L in mm	17.5x62	17.5x62	17.2x57	17x60	17x60	30x60	30x60	30x56	30x56
tubes per rotor	168	168	112	68	112	32	40	32	40
Cat. No.	4338	4338	4310	4314	4320 ^{3,12)}	4321	4323 ^{3,12)}	4313	4339 ^{3,12)}

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

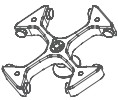
2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

3.12) When using these tubes, bucket 4290 cannot be closed with lid 4291.

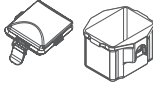
3.13) When using these tubes, bucket 4295-A cannot be closed with lid 4229-B.

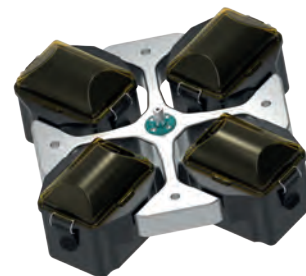
24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

Swing-out rotor, 4-place | 4294

Rotor	
max. RPM max. RCF ²⁾	4,500 min ⁻¹ 4,573
max. capacity	24 plates
run-up run-down, braked in sec	115 116
angle temperature in °C ¹⁾	90° +5
Cat. No.	4294



Bucket	
lid bioseal ³⁾	5629
Cat. No.	4280



	MTP	MTP	CP	DWP	MS	QP	PCR plates 96-places	PCR strips
Plates								
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	128x86x46	128x86x83	124x82x20	-
capacity in ml	-	-	-	-	-	-	-	0.2
max. RCF ²⁾	4,625	4,625	4,625	4,625	4,625	4,625	4,625	4,625
radius in mm	204	204	204	204	204	204	204	204
Removal aid								
boring Ø x L in mm	-	-	-	-	-	-	-	-
plates / strips per rotor	24	24	20	8	4	4	4	48 x 8
Cat. No.	4279	4279	4279	4279	4279	4279	4279 + 1485	4279 + 1485

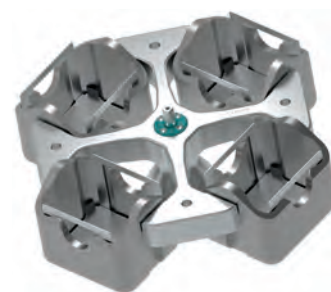


Swing-out rotor, 4-place | 4294

Rotor	
max. RPM max. RCF ²⁾	4,500 min ⁻¹ 4,867
max. capacity	20 Racks
run-up run-down, braked in sec	115 116
angle temperature in °C ¹⁾	90° +7
Cat. No.	4294



Bucket	
Cat. No.	4257



Hitachi Rack	
W x D x H in mm	118 x 20 x 70
capacity in ml	-
max. RCF ²⁾	4,867
radius in mm	215
Rack	
boring Ø x L in mm	-
tubes per rotor	20
Cat. No.	4259-A²³⁾



- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- When using removal frame 4259-A, please take the spacer out of carrier 4257.

Swing-out rotor, 4-place | 4294

Rotor	
max. RPM max. RCF ²⁾	4,500 min ⁻¹ 5,184
max. capacity	4 x 1,000 ml
run-up run-down, braked in sec	115 116
angle temperature in °C ¹⁾	90° +5
Cat. No.	4294



Bucket	
adapter including lid	4255
Cat. No.	4254



	tubes ²⁾							blood collection / urine tubes							
Tubes															
capacity in ml	5	7	9	15	25	50	100	2.6-3.4	2.7-3	4-5.5	4.5-5	4.9	7.5-8.2	9-10	10
Ø x L in mm	12x75	12x100	14x100	17x100	24x100	34x100	44x100	13x65	11x66	15x75	11x92	13x90	15x92	16x92	15x102
max. RCF ²⁾	4,618	4,618	4,777	4,777	4,505	4,573	4,551	4,618	4,618	4,777	4,618	4,618	4,777	4,777	4,777
radius in mm	204	204	211	211	199	202	201	204	204	211	204	204	211	211	211
Adapter															
boring Ø x L in mm	13 x 58	13 x 58	17,5 x 60	17,5 x 60	26 x 72	36 x 79	45 x 78	13,5 x 58	13 x 58	17,5 x 60	13 x 58	13,5 x 58	17,5 x 60	17,5 x 60	17,5 x 60
tubes per rotor	120	120	76	76	28	16	8	84	120	76	120	84	76	76	76
Cat. No.	4433	4433	4434	4434	4438	4439	4442	4435	4433	4434	4433	4435	4434	4434	4434

	blood collection / urine tubes					tubes with screw cap					5127 ²⁴⁾	5127 ²⁴⁾	0554 ²⁴⁾	0512 ²⁴⁾
Tubes														
capacity in ml	1.6-5	4-7	4-7	8	8.5-10	15	30	50	25	30	10	250	290	650
Ø x L in mm	13x75	13x100	16x75	16x81	16x100	17x120	25x110	29x115	25x90	25x110	16x80	61x122	62x137	97x139
max. RCF ²⁾	4,618	4,618	4,777	4,777	4,777	4,890	4,709	4,890	4,709	4,709	4,777	5,003	5,003	5,184
radius in mm	204	204	211	211	211	216	208	216	208	208	211	221	221	229
Adapter														
boring Ø x L in mm	13,5 x 58	13,5 x 58	17,5 x 60	17,5 x 60	17,5 x 60	17 x 86	26 x 72	30 x 87	26 x 72	26 x 72	17,5 x 60	62 x 92	62 x 92	98 x 138
tubes per rotor	84	84	76	76	76	48	28	20	28	28	76	4	4	4
Cat. No.	4435	4435	4434	4434	4434	4437	4438	4441	4438	4438	4434	4443	4443	-

	4239 ²⁴⁾	4255	Falcon	Nalgene	Nunc®	Falcon	Corning®	Corning®
Tubes								
capacity in ml	1,000	1,000	175	175	200	225	250	500
Ø x L in mm	96 x 176	98 x 138	61 x 118	61,5x144,3	60 x 130	61 x 137	60 x 162	96 x 147
max. RCF ²⁾	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184
radius in mm	229	229	229	229	229	229	229	229
Adapter								
boring Ø x L in mm	98 x 138	-	-	-	-	-	-	-
tubes per rotor	4	4	4	4	4	4	4	4
Cat. No.	-	-	4440	4430	4430	4440	4430	4449

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- When using these tubes, bucket 4255 cannot be closed with its lid.
- At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

Swing-out rotor, 4-place | 4294

Rotor	
max. RPM max. RCF ²⁾	4,500 min ⁻¹ 5,252
max. capacity	4 blood bags
run-up run-down, braked in sec	115 116
angle temperature in °C ¹⁾	90° +2
Cat. No.	4294



Bucket
Cat. No.



4293



	blood bags	
		
Blood bags		
capacity in ml	450	500
blood bags	3-place	3-place
max. RCF ²⁾	5,252	5,252
radius in mm	232	232
		
Insert		
boring Ø x L in mm	-	-
blood bags per rotor	4	4
Cat. No.	4244-A	4244-A



Additional blood bank accessories can be found on [page 187](#)

Swing-out rotor, 4-place | 4294

Rotor	
max. RPM max. RCF ²⁾	4,500 min ⁻¹ 5,071
max. capacity	4 blood bags
run-up run-down, braked in sec	115 116
angle temperature in °C ¹⁾	90° +3
Cat. No.	4294



Bucket
Cat. No.



4298-A



	blood bags			
				
Blood bags				
capacity in ml	450	500	750	1,000
blood bags	4-place	4-place	1-place	1-place
max. RCF ²⁾	5,003	5,003	5,003	5,071
radius in mm	221	221	221	224
				
Insert				
boring Ø x L in mm	-	-	-	-
blood bags per rotor	4	4	4	4
Cat. No.	4237-A	4237-A	4237-A	-



Additional blood bank accessories can be found on [page 187](#)

- 1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Swing-out rotor, 6-place | 4296



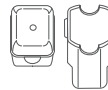
Rotor

max. RPM max. RCF ²⁾	4,000 min ⁻¹ 3,363
max. capacity	6 x 100 ml
run-up run-down, braked in sec	33 50
angle max. noise level	90° 52 dB (A)
temperature in °C ¹⁾	0
Cat. No.	4296



Bucket

lid	5053
Cat. No.	5051



Vessels

	microliter tubes				tubes ²⁾								cyto chambers
capacity in ml	1.5	2	1.5	2	5	6	7	9	15	25	50	100	100
Ø x L in mm	11 x 38	11 x 38	11 x 38	11 x 38	12 x 75	12 x 82	12 x 100	14 x 100	17 x 100	24 x 100	34 x 100	44 x 100	40 x 115
max. RCF ²⁾	2,486 / 3,363	2,486 / 3,363	3,363	3,363	3,309	3,309	3,291	3,309	3,291	3,291	3,291	3,291	3,291
radius in mm	139 / 188	139 / 188	188	188	185	185	184	185	184	184	184	184	184



Adapter

boring Ø x L in mm	12.5 x 42	12.5 x 42	11.5 x 50	11.5 x 50	12.5 x 42	12.5 x 42	12.5 x 86	16 x 50	17.5 x 86	26 x 86	36 x 86	45.5 x 86	42 x 86
vessels per rotor	240	240	96	96	120	120	120	72	72	30	12	6	6
Cat. No.	5257	5257	5281	5281	5227	5227	5247¹⁵⁾	5264	5248¹⁵⁾	5242	5243	5262	5249

Vessels

	blood collection / urine tubes								tubes with screw cap					
capacity in ml	1.1-1.4	2.6-2.9	2.7-3	4-5.5	4.5-5	4.9	7.5-8.2	9-10	1.6-5	4-7	8.5-10	15	50	15
Ø x L in mm	8 x 66	13 x 65	11 x 66	15 x 75	11 x 92	13 x 90	15 x 92	16 x 92	13 x 75	16 x 75	16 x 100	17 x 120	29 x 115	17 x 100
max. RCF ²⁾	3,274	3,345	3,309	3,309	3,309	3,345	3,309	3,291	3,345	3,309	3,291	3,434	3,363	3,434
radius in mm	183	187	185	185	185	187	185	184	187	185	184	192	188	192



Adapter

boring Ø x L in mm	11 x 44	13.5 x 52	12.5 x 42	16 x 50	12.5 x 42	13.5 x 52	16 x 50	17.6 x 82.5	13.5 x 52	16 x 50	17.5 x 82.5	17 x 90	30 x 82.5	17 x 90
vessels per rotor	120	72	120	72	120	72	72	66	72	72	72	42	12	42
Cat. No.	5267	5268	5227	5264	5227	5268	5264	5258	5268	5264	5248	6306	5259	6306

tubes with screw cap
3.11)



Vessels

capacity in ml	50
Ø x L in mm	29 x 115
max. RCF ²⁾	3,291
radius in mm	184



Adapter

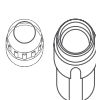
boring Ø x L in mm	26 x 82.5
vessels per rotor	12
Cat. No.	5243

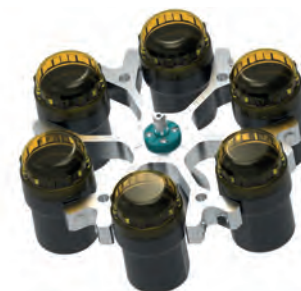


- Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 11) When using these tubes, bucket 5051 cannot be closed with lid 5053.

Swing-out rotor, 6-place | 4296

	
Rotor	
max. RPM max. RCF	4,000 min ⁻¹ 3,631
max. capacity	6 x 250 ml
run-up run-down, braked in sec	33 50
angle max. noise level	90° 59 dB (A)
temperature in °C ¹⁾	-2
Cat. No.	4296

	
Bucket	
lid bioseal ⁵⁾	5093
Cat. No.	5092



	tubes ²⁾									blood collection / urine tubes					
Vessels															
capacity in ml	5	6	7	15	25	50	100	100	250	1.1–1.4	1.1–1.4	2.6–2.9	2.7–3	2.7–3	4.9
Ø x L in mm	12x75	12x82	12x100	17x100	24x100	34x100	44x100	40x115	65x115	8 x 66	8 x 66	13 x 65	11x66	11x66	13x90
max. RCF ²⁾	3,542	3,542	3,542	3,488	3,434	3,488	3,488	3,488	3,641	3,488	3,077	3,077	3,488	3,077	3,488
radius in mm	198	198	198	195	192	195	195	195	203	195	172	172	195	172	195
Adapter															
boring Ø x L in mm	12.8x42	12.8x42	12.8x79.5	17.5x56.7	25.5x74	35.5x77.5	45.5x85	42x86.5	66x103	13.5x56.7	12.8x54.5	12.8x54.5	13.5x56.7	12.8x54.5	13.5x56.7
vessels per rotor	72	72	72	48	24	6	6	6	6	48	72	72	48	72	48
Cat. No.	5128	5128	5120	5136	5122	5124	5125	5126	1791	5137	5138	5138	5137	5138	5137

	blood collection / urine tubes										tubes with screw cap				
Vessels															
capacity in ml	4–4.5	4.5–5	7.5–8.2	9–10	10	1.6–5	4–7	4–7	8	8.5–10	15	50	25	30	50
Ø x L in mm	15x75	11x92	15x92	16x92	15x102	13x75	16x75	13x100	16x125	16x100	17x120	29x115	25x90	25 x 110	29x115
max. RCF ²⁾	3,488	3,542	3,488	3,488	3,488	3,077	3,488	3,542	3,542	3,488	3,631	3,631	3,363	3,434	3,560
radius in mm	195	198	195	195	195	172	195	198	198	195	203	203	188	192	199
Adapter															
boring Ø x L in mm	17.5x56.7	12.8x79.5	17.5x56.7	17.5x56.7	17.5x56.7	12.8x54.5	17.5x56.7	12.8x79.5	17.5x79.5	17.5x56.7	17x85	30x85	26x73	25.5x87	30x99
vessels per rotor	48	72	48	48	48	72	48	72	42	48	42	12	18	24	12
Cat. No.	5136	5120	5136	5136	5136	5138	5136	5120	5121⁴⁾	5136	5129	5123	5134	5122	5135

	-	5127 ²⁴⁾	- ²⁴⁾
Vessels			
capacity in ml	10	250	290
Ø x L in mm	16 x 80	61 x 122	62 x 137
max. RCF ²⁾	3,488	3,631	3,631
radius in mm	195	203	203
Adapter			
boring Ø x L in mm	17.5x56.7	62x90	62x90
vessels per rotor	48	6	6
Cat. No.	5136	6319	6319

- 1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 3.4) When using these tubes, bucket 5051 or 5092 cannot be closed with lid 5053 or 5093.
- 4) Please remove the spacer.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

Swing-out rotor, 2-place | 4282

Rotor	
max. RPM max. RCF	3,600 min ⁻¹ 2,652
max. capacity	20 plates
run-up run-down, braked in sec	87 94
angle max. noise level	90° 58 dB (A)
temperature in °C ¹⁾	-2
Cat. No.	4282



Bucket	
Cat. No.	4285-A



	MTP	MTP	CP	DWP	MS	PCR plates	PCR strips
Plates							
W x D x H in mm	128x86x15	128x86x17.5	128x86x22	128x86x44.5	84x59x46	124x82x20	-
max. RCF ²⁾	2,434	2,434	2,434	2,434	2,434	2,434	2,434
radius in mm	168	168	168	168	168	168	168
Removal aid							
boring Ø x L in mm	-	-	-	-	-	-	-
plates / strips per rotor	16	12	12	4	4	4	48 x 8
Cat. No.	4281	4281	4281	4281	4281	4281+1485	4281+1485

	Olympus Racks	Hitachi Racks	Behring Racks	Rack, 50-place
Racks				
W x D x H in mm	176x20x41	118x20x70	193x25x60	210x110x44
max. RCF ²⁾	2,652	2,652	2,652	2,579
radius in mm	183	183	183	178
Adapter				
boring Ø x L in mm	-	-	-	-
plates / racks per rotor	12	20	10	2
Cat. No.	4283-B	4287-B	4288-A	4263-A

1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
 The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Angle rotor, 6-place | 4266

Rotor	
max. RPM max. RCF	9,500 min ⁻¹ 14,025
max. capacity	6 x 250 ml
run-up run-down, braked in sec	82 96
angle	25°
temperature in °C ¹⁾	+2
Cat. No.	4266

+ Lid bioseal⁵⁾ and phenol-resistant
Cat. No.



INCLUSIVE



	tubes ²⁾			tubes with screw cap					5127 ²⁴⁾
Vessels									
capacity in ml	15	25	94	10	30	50	85	94	250
Ø x L in mm	17 x 100	24 x 100	38 x 102	16 x 80	26 x 95	29 x 107	38 x 106	38 x 102	61.5 x 122
max. RCF ³⁾	13,319	12,915	12,310	13,420	12,915	12,108	12,310	12,310	14,025
radius in mm	132	128	122	133	128	120	122	122	139
Adapter									
boring Ø x L in mm	17.6 x 83	26 x 80	38.6 x 88	16.6 x 70	26 x 80	29 x 90	38.6 x 88	38.6 x 88	61.5 x 109
vessels per rotor	42	18	6	48	18	6	6	6	6
Cat. No.	5646	5642	5644	5641	5642	5643	5644	5644	-

- Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

Angle rotor, 6-place | 4246

	
Rotor	
max. RPM max. RCF	11,500 min ⁻¹ 18,038
max. capacity	6 x 94 ml
run-up run-down, braked in sec	64 64
angle	45°
temperature in °C ¹⁾	+4
Cat. No.	4246

Lid bioseal[®] and phenol-resistant
Cat. No.



INCLUSIVE



	pediatric	microliter tubes			tubes ²⁾				blood collection / urine tubes				-	tubes with screw cap	
Vessels															
capacity in ml	0.5	1.5	2.0	3	15	25	50	94	7.5 – 8.2	9 – 10	10	8.5 – 10	5	15	50
Ø x L in mm	10.7x46	11x38	11x38	10x60	17x100	24x100	34x100	38x102	15x92	16x92	15x102	16x100	17x51	17x120	29x115
max. RCF ²⁾	17,299	17,299	17,299	17,299	17,003	16,560	17,743	18,038	17,003	17,003	17,003	17,003	16,856	17,299	17,595
radius in mm	117	117	117	117	115	112	120	122	115	115	115	115	114	117	119
Adapter															
boring Ø x L in mm	11.4x39	11.4x39	11.4x39	11.4x39	17.5x91.5	26x85	35x89.3	38.2x89.6	17.5x91.5	17.5x91.5	17.5x91.5	17.5x91.5	17x51	17x106	29.8x96.7
vessels per rotor	24	24	24	24	6	6	6	6	6	6	6	6	6	6	6
Cat. No.	1449	1449	1449	1449	1451	1447	1463	-	1451	1451	1451	1451	1476	1466	1454

	tubes with screw cap			
Vessels				
capacity in ml	10	30	50	85
Ø x L in mm	16x80	26x95	29x107	38 x 106
max. RCF ²⁾	17,003	16,560	17,299	18,038
radius in mm	115	112	117	122
Adapter				
boring Ø x L in mm	16.5x74	26x85	29x92	38.2x89.6
vessels per rotor	12	6	6	6
Cat. No.	1448	1447	1446	-

- 1) Lowest attainable temperature in precooled refrigerated centrifuges at max. speed. Lower temperatures can be attained by reducing the speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

ROTO SILENTA 630 RS

Your first choice up to 12 liters

The ROTO SILENTA 630 RS is highly rated in the rapid and efficient centrifugation of blood bags. It is able to spin up to 12 liter of sample or 12 blood bags per run. Four and six-place rotor options are also available to offer the best possible fit.

In industrial or R&D applications the ROTO SILENTA accommodates six vessels up to 2,000 ml each. This unit includes refrigeration with a temperature range from -20°C to +40°C.

— Features

- RPM: 50 - 6,000 min⁻¹ – adjustable in increments of 10
- RCF: 1 - 6,520 – adjustable in increments of 1
- Max. capacity: 6 x 2,000 ml
- The first choice in blood banking centrifuges
- Choice of 3 rotors
- Medical device according to regulation (EU) 2017/745
- Easy operation with keypad and control knob
- 89 program memories for more individuality
- 9 individual acceleration and 19 deceleration stages
- Temperature adjustable from -20 to +40 °C with pre-cooling function
- Data reporting system (optional)

— Fields of application

- Hospitals
- Blood banks and transfusion medicine laboratories
- Cell culture laboratories



Documentation system for blood banks.
More information on [page 166](#)



More information about the control panel
can be found on [page 206](#)



Find out more
about the product.

Technical data

ROTO SILENTA 630 RS refrigerated

voltage *)	400 V 3 ~ + N
frequency	50 – 60 Hz
consumption	9,700 VA
emission, immunity	EN/IEC 61326-1, class B
max. capacity	6 x 2,000 ml
max. RPM	6,000 min ⁻¹
max. RCF	6,520
running time	1 – 999 min: 59 s, ∞ continuous run
dimensions (WxDxH)	813 x 1,015 x 973 mm
weight	approx. 355 kg
temperature control, infinitely variable	from -20 to +40 °C
Cat. No.	5005

208 – 220 V +6 / -10 % 3- (+N) + PE,
with internal transformer
consumption
weight

5005-08
9,000 VA
approx. 401 kg

*) Other voltages on request.

GMP versions		Power supply	Frequency	Cat. No.
ROTO SILENTA 630 RS	GMP, internal cooling unit with water-cooled condenser	400 V 3 ~ +N	50 – 60 Hz	5005-80
ROTO SILENTA 630 RS	GMP, external cooling unit	400 V 3 ~ +N	50 – 60 Hz	5005-90

Available rotors

SWING-OUT ROTORS

		angle	max. RPM	max. capacity	Cat. No.	page
	Swing-out rotor, 6-place	90°	4,500 min ⁻¹	6 x 2,000 ml	4176	158
	Swing-out rotor, 4-place	90°	4,500 min ⁻¹	4 x 2,000 ml	4174	158

ANGLE ROTORS

	angle rotor, 6-place	25°	6,000 min ⁻¹	6 x 250 ml	4570	165
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— Swing-out rotor, 6- / 4-place | 4176 / 4174

			
Rotor		Bucket	
max. RPM	4,500 min ⁻¹	Cat. No.	4524-A
max. RCF Rotor 4176 / 4174	6,498 / 5,683		
max. capacity	12 / 8 blood bag		
run-up run-down, braked in sec	125 197		
angle temperature in °C ¹⁾	90° +16 / +10		
Cat. No.	4176 / 4174		



	-	-	-
			
Blood bag			
capacity in ml	500	500	750
blood bag per system	4-place	4-place	1-place
max. RCF ²⁶⁾	6,498 / 5,683	6,498 / 5,683	6,498 / 5,683
radius in mm	287 / 251	287 / 251	287 / 251
			
Insert			
boring Ø x L in mm	-	-	-
blood bag systems per rotor	12 / 8	12 / 8	12 / 8
Cat. No.	4529 26)-AO,-AM,-AU	4592-B	4592-B

+ Additional blood bank accessories can be found on [page 187](#)

- Swing-out rotor, 6- / 4-place | 4176 / 4174

		+	
Rotor			
max. RPM	4,500 min ⁻¹		
max. RCF Rotor 4176 / 4174	6,271 / 5,479		
max. capacity	12 / 8 blood bag		
run-up run-down, braked in sec	125 197		
angle temperature in °C ¹⁾	90° +10 / 0		
Cat. No.	4176 / 4174		4546-A



		-
		
Blood bag		450
capacity in ml		4-place
blood bag per system		6,271 / 5,479
max. RCF	Rotor 4176 / 4174	277 / 242
radius in mm		
		
Insert		
boring Ø x L in mm		-
blood bag systems per rotor		12 / 8
Cat. No.		4559-A

+ Additional blood bank accessories can be found on [page 187](#)

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 26) Includes blood bag hanging to prevent erythrocyte accumulation at low speeds. Different hanging heights allow customer-specific adjustments. (4529-AO top, 4529-AM center, 4529-AU bottom). Hanging blood bags may be centrifuged with a maximum RCF of 1,000.

■ Swing-out rotor, 6- / 4-place | 4176 / 4174

	
Rotor	Bucket
max. RPM	4,500 min ⁻¹
max. RCF Rotor 4176 / 4174	6,498 / 5,705
max. capacity	12 / 8 blood bag
run-up run-down, braked in sec	125 197
angle temperature in °C ¹⁾	90° +16 / +10
Cat. No.	4176 / 4174
	4591-A



	-	-	-
			
Blood bags			
capacity in ml	450	500	750
blood bag per system	3-place	4-place	1-place
max. RCF Rotor 4176 / 4174	6,271 / 5,705	6,498 / 5,705	6,498 / 5,705
radius in mm	287 / 252	287 / 251	287 / 251
			
			
Insert			
boring Ø x L in mm	-	-	-
blood bag systems per rotor	12 / 8	12 / 8	12 / 8
Cat. No.	4598-A	4592-B	4592-B

+ Additional blood bank accessories can be found on [page 187](#)

- Swing-out rotor, 6- / 4-place | 4176 / 4174

			
Rotor		Bucket	
max. RPM	3,500 min ⁻¹	Cat. No.	4595-C ³¹⁾
max. RCF Rotor 4176 / 4174	3,848 / 3,328		
max. capacity	6 x 2,000 ml		
angle temperature in °C ¹⁾	90° +16 / -12		
Cat. No.	4176 / 4174		



	-	0550 ²⁴⁾
		
Vessels		
capacity in ml	max. 1,600 ³⁵⁾	2,000
W x D x H in mm	-	150 x 100 x 180
max. RCF Rotor 4176 / 4174	3,821 / 3,328	3,848 / -
radius in mm	279 / 243	281 / -
run-up, in sec	95 / 131	95 / -
run-down, braked in sec	131 / 131	41 / -
		
Insert		
W x D x H in mm	145 x 91 x 146	-
vessels per rotor	6 / 4	6 / -
Cat. No.	4596-A	-

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.
- 31) Adapter for accommodating sample tubes and blood collection tubes in carrier 4595-C on request.
- 35) Depending on the sample.

— Swing-out rotor, 6- / 4-place | 4176 / 4174



Rotor

max. RPM	4,500 min ⁻¹
max. RCF Rotor 4176 / 4174	6,520 / 5,705
max. capacity	6 / 4 blood bag
run-up run-down, braked in sec	125 197
angle temperature in °C ¹⁾	90° +9 / +3

+

Bucket

Cat. No.	4523-A
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Blood bags

capacity in ml	500	750	1,000
blood bag per system	4-place	1-place	1-place
max. RCF Rotor 4176 / 4174	6,475 / 5,660	6,475 / 5,660	6,520 / 5,705
radius in mm	285 / 250	285 / 250	288 / 252



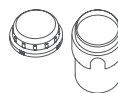
Insert

boring Ø x L in mm	-	-	-
blood bag systems per rotor	6 / 4	6 / 4	6 / 4
Cat. No.	4516-A	4516-A	-

+

Additional blood bank accessories can be found on [page 187](#)

- Swing-out rotor, 6- / 4-place | 4176 / 4174



Rotor

max. RPM	4,500 min ⁻¹
max. RCF Rotor 4176 / 4174	6,316 / 5,524
max. capacity	6 / 4 blood bag
run-up run-down, braked in sec	125 197
angle temperature in °C ¹⁾	90° +9 / -9

+

Bucket

lid	5621
Cat. No.	4547-

Blood bags

capacity in ml	500	450
blood bag per system	4-place	3-place
max. RCF Rotor 4176 / 4174	6,316 / 5,524	6,316 / 5,524
radius in mm	279 / 244	279 / 244



Insert

boring Ø x L in mm	-	-
blood bag systems per rotor	6 / 4	6 / 4
Cat. No.	4548	4548

+

Additional blood bank accessories can be found on [page 187](#)

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

Swing-out rotor, 6- / 4-place | 4176 / 4174

Rotor	
max. RPM	4,500 min ⁻¹
max. RCF Rotor 4176 / 4174	6,294 / 5,501
max. capacity	6/4 x 1,000 ml
run-up run-down, braked in sec	125 197
angle temperature in °C ¹⁾	90° +4 / -11
Cat. No.	4176 / 4174

Bucket	
adapter including lid	4255
Cat. No.	4579-A



	tubes ²⁾							blood collection / urine tubes							
Vessels															
capacity in ml	5	7	9	15	25	50	100	2.6-3.4	2.7-3	4-5.5	4.5-5	4.9	9-10	10	1.6-5
Ø x L in mm	12x75	12x100	14x100	17x100	24x100	34x100	44x100	13x65	11x66	15x75	11x92	13x90	16x92	15x102	13x75
max. RCF ²⁾ Rotor 4176 / 4174	5,750 / 4,935	5,750 / 4,935	5,886 / 5,094	5,886 / 5,094	5,615 / 4,845	5,705 / 4,890	5,683 / 4,867	5,750 / 4,935	5,750 / 4,935	5,886 / 5,094	5,750 / 4,935	5,750 / 4,935	5,886 / 5,094	5,886 / 5,094	5,750 / 4,935
radius in mm	254 / 218	254 / 218	260 / 225	260 / 225	248 / 214	252 / 216	251 / 215	254 / 218	254 / 218	260 / 225	254 / 218	254 / 218	260 / 225	260 / 225	254 / 218

Adapter															
boring Ø x L in mm	13 x 58	13 x 58	17,5 x 60	17,5 x 60	26 x 72	36 x 79	45 x 78	13,5 x 58	13 x 58	17,5 x 60	13 x 58	13,5 x 58	17,5 x 60	17,5 x 60	13,5 x 58
vessels per rotor	180 / 120	180 / 120	114 / 76	114 / 76	42 / 28	24 / 16	12 / 8	126 / 84	180 / 120	114 / 76	180 / 120	126 / 84	114 / 76	114 / 76	126 / 84
Cat. No.	4433	4433	4434	4434	4438	4439	4442	4435	4433	4434	4433	4435	4434	4434	4435

Vessels															
capacity in ml	4-7	4-7	8.5-10	15	50	25	30	10	250	290	650	750	1,000	1,000	175
Ø x L in mm	13x100	16x75	16x100	17x120	29x115	25x90	25 x 110	16 x 80	61 x 122	62 x 137	97 x 139	97 x 152	96 x 176	98 x 138	61 x 118
max. RCF ²⁾ Rotor 4176 / 4174	5,750 / 4,935	5,886 / 5,094	5,886 / 5,094	6,022 / 5,207	5,999 / 5,207	5,818 / 5,026	5,818 / 5,026	5,886 / 5,094	6,113 / 5,320	6,113 / 5,320	5,999 / 5,184	6,294 / 5,501	6,294 / 5,501	6,294 / 5,501	6,294 / 5,501
radius in mm	254 / 218	260 / 225	260 / 225	266 / 230	265 / 230	257 / 222	257 / 222	260 / 225	270 / 235	270 / 235	265 / 229	278 / 243	278 / 243	278 / 243	278 / 243

Adapter															
boring Ø x L in mm	13,5 x 58	17,5 x 60	17,5 x 60	17 x 86	30 x 87	26 x 72	26 x 72	17,5 x 60	62 x 92	62 x 92	98 x 138	98 x 138	98 x 138	-	61 x 118
vessels per rotor	126 / 84	114 / 76	114 / 76	72 / 48	30 / 20	42 / 28	42 / 28	114 / 76	6 / 4	6 / 4	6 / 4	6 / 4	6 / 4	6 / 4	6 / 4
Cat. No.	4435	4434	4434	4437	4441	4438	4438	4434	4443	4443	4258	-	-	-	4440

Vessels					
capacity in ml	175	200	225	250	500
Ø x L in mm	61,5x144	60 x 130	61 x 137	60 x 162	96 x 147
max. RCF ²⁾ Rotor 4176 / 4174	6,294 / 5,501	6,294 / 5,501	6,294 / 5,501	6,294 / 5,501	6,294 / 5,501
radius in mm	278 / 243	278 / 243	278 / 243	278 / 243	278 / 243

Adapter					
boring Ø x L in mm	-	-	-	-	-
vessels per rotor	6 / 4	6 / 4	6 / 4	6 / 4	6 / 4
Cat. No.	4430	4430	4440	4430	4449

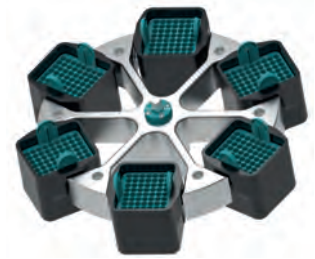
- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.
The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 3.15) When using these tubes, carrier 4255 cannot be closed with its lid.
- 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

Swing-out rotor, 6- / 4-place | 4176 / 4174

Rotor	
max. RPM	4,500 min ⁻¹
max. RCF Rotor 4176 / 4174	5,999 / 5,184
max. capacity	6 x 750 ml
run-up run-down, braked in sec	125 197
angle temperature in °C ¹⁾	90° +14 / -1
Cat. No.	4176 / 4174



Bucket	
Cat. No.	4522-A



	tubes ²⁾								blood collection / urine tubes						
Vessels															
capacity in ml	4	5	6	7	12	15	25	50	100	2.6-3.4	2.7-3	4-5.5	4.5-5	7.5-8.2	9-10
Ø x L in mm	10x88	12x75	12x82	12x100	16x101	17x100	24x100	34x100	40x115	13x65	11x66	15x75	11x92	15x92	16x92
max. RCF Rotor 4176 / 4174	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003
radius in mm	257 / 221	257 / 221	257 / 221	257 / 221	257 / 221	257 / 221	257 / 221	257 / 221	257 / 221	257 / 221	257 / 221	257 / 221	257 / 221	257 / 221	257 / 221



Adapter															
boring Ø x L in mm	11 x 70	12.5 x 32	12.5 x 70	12.5 x 70	16 x 70	17.5 x 70	26 x 70	35 x 70	41.5 x 70	13.2 x 32	12.5 x 32	17.5 x 32	12.5 x 70	17.5 x 70	17.5 x 70
vessels per rotor	378 / 252	288 / 192	288 / 192	288 / 192	150 / 100	180 / 120	66 / 44	36 / 24	24 / 16	180 / 120	288 / 192	180 / 120	288 / 192	180 / 120	96 / 64
Cat. No.	4224	4213-93	4213	4213	4223	4214	4215	4216	4218	4222-93	4213-93	4214-93	4213	4214	4220

	blood collection / urine tubes						tubes with screw cap					5127 ²⁴⁾	- 24)	0551 ²⁴⁾	0554 ²⁴⁾
Vessels															
capacity in ml	10	1.6-5	4-7	4-7	8	8.5-10	15	50	12	30	50	250	290	600	650
Ø x L in mm	15x102	13x75	16x75	13x100	16x125	16x100	17x120	29x115	17x100	25x110	29x115	61x122	62x137	93x134	97x139
max. RCF Rotor 4176 / 4174	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003	5,818 / 5,003	5,999 / 5,184	5,999 / 5,184	5,818 / 5,003	5,818 / 5,003	5,909 / 5,094	5,818 / 5,003	5,818 / 5,003	5,999 / 5,184	5,999 / 5,184
radius in mm	257 / 221	257 / 221	257 / 221	257 / 221	257 / 221	257 / 221	265 / 229	265 / 229	257 / 221	257 / 221	261 / 225	257 / 221	257 / 221	265 / 229	265 / 229



Adapter															
boring Ø x L in mm	17.5x70	13.2x32	17.5x32	13.2x70	16x70	17.5x70	17x70	30x70	17.5x70	26x70	30x96	62x90	62x90	94x105	97.5x105
vessels per rotor	180 / 120	180 / 120	180 / 120	180 / 120	150 / 100	180 / 120	138 / 92	48 / 32	96 / 64	66 / 44	36 / 24	6 / 4	6 / 4	6 / 4	6 / 4
Cat. No.	4214	4222-93	4214-93	4222	4223	4214	4232	4245-A	4220	4215	4249	4238	4238	4233	4258

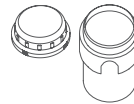
	0512 ²⁴⁾	4234-A	Corning®	Corning®
Vessels				
capacity in ml	750	750	250	500
Ø x L in mm	97 x 152	96 x 135	60 x 162	96 x 147
max. RCF Rotor 4176 / 4174	5,999 / 5,184	5,999 / 5,184	5,818 / 5,003	5,999 / 5,184
radius in mm	265 / 229	265 / 229	257 / 221	265 / 229



Adapter				
boring Ø x L in mm	97.5x105	97.5x105	60x125	97.5x105
vessels per rotor	6 / 4	6 / 4	6 / 4	6 / 4
Cat. No.	4258	4258	6322	4258

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

Swing-out rotor, 6- / 4-place | 4176 / 4174



Rotor

max. RPM	4,500 min ⁻¹
max. RCF	Rotor 4176 / 4174 6,384 / 5,592
max. capacity	6 x 1,000 ml
run-up run-down, braked in sec	125 197
angle temperature in °C ¹⁾	90° +9 / -9
Cat. No.	4176 / 4174

Bucket

lid	5621
Cat. No.	4547-B

Vessels

capacity in ml		5	7	9	15	25	50	100	2.6–3.4	2.7–3	4–5.5	4.5–5	4.9	7.5–8.2	9–10	10
Ø x L in mm		12x75	12x100	14x100	17x100	24x100	34x100	44x100	13 x 65	11x66	15x75	11x92	13x90	15x92	16x92	15x102
max. RCF ²⁾	Rotor 4176 / 4174	5,841/ 5,026	5,841/ 5,026	5,977/ 5,184	5,977/ 5,184	5,728/ 4,913	5,773/ 4,981	5,750/ 4,958	5,841/ 5,026	5,841/ 5,026	5,977/ 5,184	5,841/ 5,026	5,841/ 5,026	5,977/ 5,184	5,977/ 5,184	5,977/ 5,184
radius in mm		258 / 222	258 / 222	264 / 229	264 / 229	253 / 217	255 / 220	254 / 219	258 / 222	258 / 222	264 / 229	258 / 222	258 / 222	264 / 229	264 / 229	264 / 229



Adapter

boring Ø x L in mm	13 x 58	13 x 58	17,5 x 60	17,5 x 60	26 x 72	36 x 79	45 x 78	13,5 x 58	13 x 58	17,5 x 60	13 x 58	13,5 x 58	17,5 x 60	17,5 x 60	17,5 x 60
vessels per rotor	180 / 120	180 / 120	114 / 76	114 / 76	42 / 28	24 / 16	12 / 8	126 / 84	180 / 120	114 / 76	180 / 120	126 / 84	114 / 76	114 / 76	114 / 76
Cat. No.	4433	4433	4434	4434	4438	4439	4442	4435	4433	4434	4433	4435	4434	4434	4434

Vessels

	blood collection / urine tubes					tubes with screw cap					5127 ²⁴⁾	– 24)	0554 ²⁴⁾	0512 ²⁴⁾	4239 ²⁴⁾
capacity in ml	1.6–5	4–7	4–7	8	8.5–10	15	50	25	30	10	250	290	650	750	1,000
Ø x L in mm	13x75	13x100	16x75	16 x 125	16x100	17x120	29x115	25x90	25x110	16 x 80	62 x 122	62 x 137	97 x 139	97 x 152	96 x 176
max. RCF ²⁾	5,841 / 5,026	5,841 / 5,026	5,977 / 5,184	5,977 / 5,184	5,977 / 5,184	6,090 / 5,298	6,090 / 4,958	5,909 / 5,117	5,909 / 5,117	5,977 / 5,184	6,203 / 5,411	6,203 / 5,411	6,384 / 5,592	6,384 / 5,592	6,384 / 5,592
radius in mm	258 / 222	258 / 222	264 / 229	264 / 229	264 / 229	269 / 234	269 / 219	261 / 226	261 / 226	264 / 229	274 / 239	274 / 239	282 / 247	282 / 247	282 / 247



Adapter

boring Ø x L in mm	13,5 x 58	13,5 x 58	17,5 x 60	17,5 x 60	17,5 x 60	17 x 86	30 x 87	26 x 72	26 x 72	17,5 x 60	62x92	62x92	98 x 141	98 x 141	98 x 141
vessels per rotor	126 / 84	126 / 84	114 / 76	114 / 76	114 / 76	72 / 48	30 / 20	42 / 28	42 / 28	114 / 76	6 / 4	6 / 4	6 / 4	6 / 4	6 / 4
Cat. No.	4435	4435	4434	4434	4434	4437	4441	4438	4438	4434	4443	4443	-	-	-

Vessels

	Falcon®	Nalgene®	Nunc®	Falcon®	Corning®	Corning®
capacity in ml	175	175	200	225	250	500
Ø x L in mm	61 x 118	61.5x144.3	60x130	61 x 137	60 x 162	96 x 147
max. RCF ²⁾	6,384 / 5,592	6,384 / 5,592	6,384 / 5,592	6,384 / 5,592	6,384 / 5,592	6,384 / 5,592
radius in mm	282 / 247	282 / 247	282 / 247	282 / 247	282 / 247	282 / 247



Adapter

boring Ø x L in mm	-	-	-	-	-	-
vessels per rotor	6 / 4	6 / 4	6 / 4	6 / 4	6 / 4	6 / 4
Cat. No.	4440	4430	4430	4440	4430	4449

- For cooled versions: Lowest temperature achievable with precooling and max. speed.
- Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 17) When using these tubes, bucket 4547-B cannot be closed with lid 5621.
- 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.

Swing-out rotor, 6- / 4-place | 4176 / 4174

Rotor				Bucket			
max. RPM		4,500 min ⁻¹	+	Cat. No.		4572	
max. RCF	Rotor 4176 / 4174	5,999 / 5,184					
max. capacity		6 x 750 ml					
run-up run-down, braked in sec		125 197					
angle temperature in °C ¹⁾		90° +14 / -1					
Cat. No.		4176 / 4174					



blood collection tubes				
				
Vessels				
capacity in ml	4 – 7	4 – 7	4 – 7	8.5 – 10
Ø x L in mm	13 x 75	13 x 100	16 x 75	16 x 100
max. RCF	Rotor 4176 / 4174 5,818 / 5,003	5,818 / 5,003	5,522 / 4,718	5,522 / 4,718
radius in mm	257 / 221	257 / 221	244 / 208	244 / 208

Adapter				
				
boring Ø x L in mm	13.2 x 59	13.2 x 59	17.5 x 59	17.5 x 59
vessels per rotor	336 / 224	336 / 224	210 / 140	210 / 140
Cat. No.	4493	4493	4494	4494

1) For cooled versions: Lowest temperature achievable with precooling and max. speed.

2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.

Angle rotor, 6-place | 4570



Rotor

max. RPM max. RCF	6,000 min ⁻¹ 5,594
max. capacity	6 x 250 ml
run-up run-down, braked in sec	64 69
angle max. noise level	25° 54 dB(A)
temperature in °C ¹⁾	-16
Cat. No.	4570



Lid bioseal[®] and phenol-resistant

Cat. No.



INCLUSIVE



Vessels

	tubes ²⁾			tubes with screw cap							5127 ²⁴⁾
capacity in ml	15	25	94	15	50	10	30	50	85	94	250
Ø x L in mm	17x100	24x100	38x102	17x120	29x115	16x80	26x95	29x107	38 x 106	38 x 102	61.5x122
max. RCF ²⁾	5,315	5,152	4,910	5,152	4,830	5,353	5,152	4,830	4,910	4,910	5,594
radius in mm	132	128	122	128	120	133	128	120	122	122	139



Adapter

	tubes ²⁾			tubes with screw cap							5127 ²⁴⁾
boring Ø x L in mm	17.6 x 83	26x80	38.6x88	17x106	30x100	16.6x70	26x80	29x90	38.6 x 88	38.6 x 88	61.5x109
vessels per rotor	42	18	6	30	6	48	18	6	6	6	6
Cat. No.	5646	5642	5644	5637	5638	5641	5642	5643	5644	5644	-

- 1) For cooled versions: Lowest temperature achievable with precooling and max. speed.
- 2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.
- 5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.
- 24) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.



HETTINFO II

documentation system

HETTINFO II documents important work steps before and during centrifugation – this ensures transparency and traceable processes. The documentation system is operated via a touch display, which guides the user step by step through the centrifugation and records all significant process data.

All documented data points are temporarily stored locally and can be exported directly after the centrifugation or at a defined time as a CSV file. The data can be stored on the network or exported to a USB stick. This makes HETTINFO II system independent and facilitates further processing into another software system.



Advantages

- 1 **Touch display**
HettInfo II can be operated simply and easily via the touch display – even with laboratory gloves.
- 2 **Step-by-step instructions**
With the step-by-step instructions, the user always knows exactly what to do next. In the event of incorrect operation or errors, a visual and audible message is issued immediately.
- 3 **Automatic data export**
Data obtained can be exported after each run or in specific times.
- 4 **Universal data format**
The exported CSV file is easy to process and work independently for greater compatibility with an existing system.

Technical Features

Compatibility	ROTO SILENTA 630 RS, ROTIXA 500 RS
4.3" touch display	Process status display, error messages, settings
User	max. 3,000
Data logging Scan Module	User ID, blood bag ID, program number
Run data logging	Centrifuge names, centrifuge data, date, start and end time, temperature, radius, acceleration time, braking time, total running time, RPM, RCF, integral RCF, cycle time, brake deactivation speed, end result
File format	CSV
Ports	LAN, USB
Logbook	Documentation of error messages. Export as CSV file on USB stick possible.

Modules

HETTINFO II

With HettInfo II you can record running data of your ROTO SILENTA 630 RS or ROTIXA 500 RS centrifuge. To record a complete centrifugation process, we recommend HettInfo II plus Scan Module.



Articles	Includes
HettInfo II – ROTO SILENTA 630 RS	Firmware, touch display
HettInfo II – ROTIXA 500 RS	Firmware, touch display

Cat. No

0955

0956

SCAN MODULE

The barcode scanner included in the Scan Module records all data reliably. The ergonomic holder ensures easy handling and offers secure protection when not in use.

Barcode scanners from the HettInfo I series are compatible with HettInfo II and can still be used.



Articles	Includes
Scan Module – ROTO SILENTA 630 RS	Barcode scanner, bracket, cable clamps
Scan Module – ROTIXA 500 RS	Barcode scanner, bracket, cable clamps

Cat. No

0959

0960

ADD-ON KIT

Articles	Includes
Add-on Kit for model 5005	Firmware, touch display, front panel
Add-on Kit for model 5005-80	Firmware, touch display, front panel
Add-on Kit for model 5005-90	Firmware, touch display, front panel
Add-on Kit for model 4950	Firmware, touch display, front panel

Cat. No

E4378

E4393

E4416

E4409

With the Add-on Kit, ROTO SILENTA 630 RS models from model year 01/2008* can be upgraded to HettInfo II. To capture a complete centrifugation process, we recommend the Add-on Kit plus Scan Module.

* Older models on request.

Product videos

Would you like to learn more about this product?
Scan the QR Code to visit our YouTube channel:
www.youtube.com/hettichlabtechnology

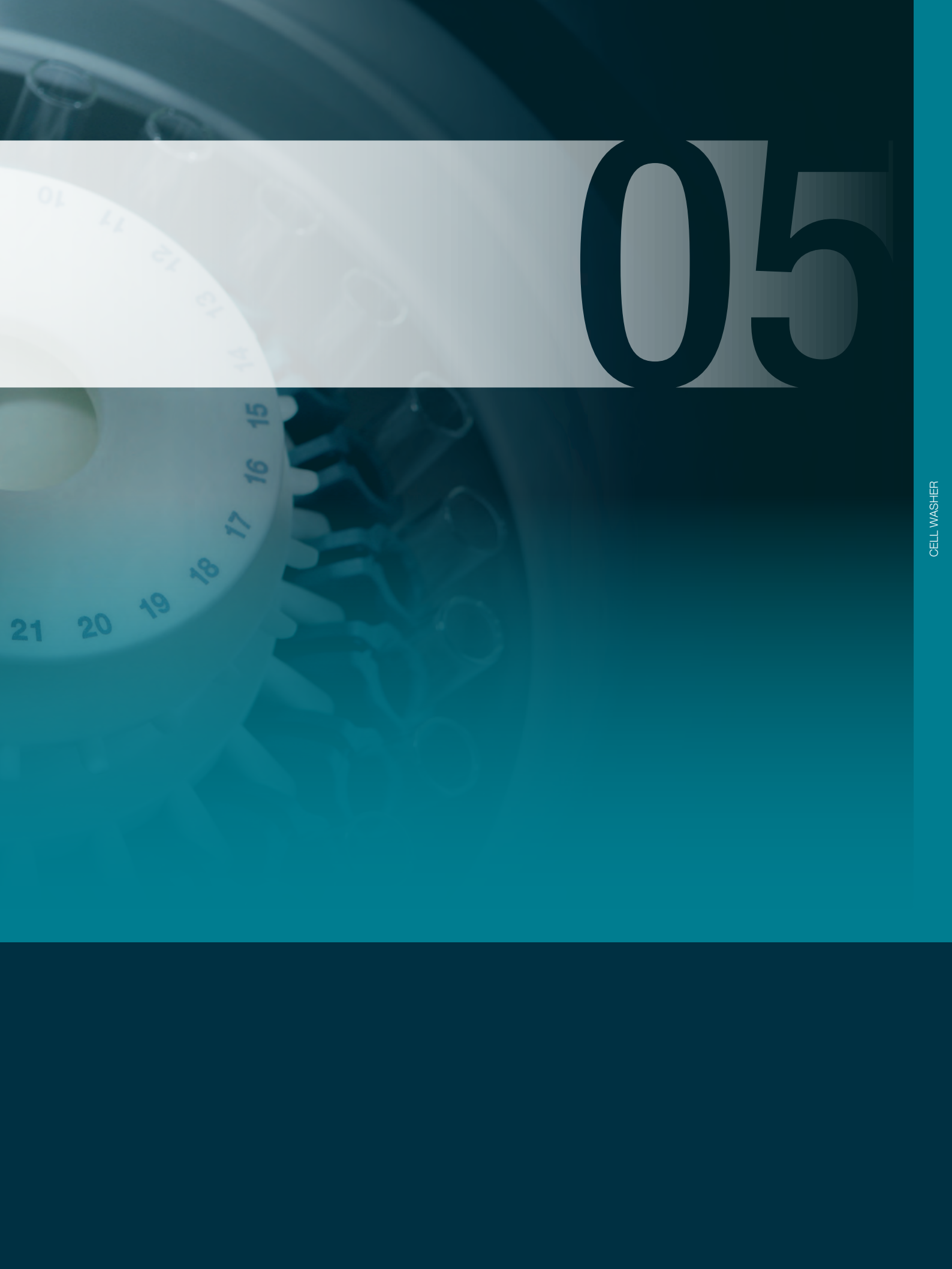


CELL WASHER

Automated cell washing centrifuge



ROTOLAVIT II
on page 170



05

ROTOLAVIT II

User friendly serology solutions

The ROTOLAVIT II cell washing system facilitates routine tasks in transfusion laboratories. It was developed for cross-matching, as well as antibody search and differentiation, and for cell washing in TB tests. Its modern touch screen enables the simple and rapid input of up to 20 different programs. The centrifuge has a small footprint and delivers reliable results without the need for costly consumables.

— Features

- Max. RPM: 3,500 min⁻¹
- Max. RCF: 1,438
- Max. capacity: 24 standard tubes
- Automatic cell washing system for serological testing
- Choice of 2 rotors 12-place or 24-place
- IVDR-conform according to regulation (EU) 2017/746
- Maximum noise level of ≤ 49 dB (A)
- Easy operation with intuitiv touch screen
- 24 program memories for more individuality
- 7 pre-installed application programs

— Fields of application

- Hospitals
- Hematological laboratories
- Blood centers
- Clinical laboratories



according to regulation (EU) 2017/746



Find out more
about the product.

Technical data

ROTOLAVIT II	
voltage	100 – 240 V 1 ~
frequency	50 – 60 Hz
consumption	144 VA
emission, immunity	EN/IEC 61326-3-2 / FCC CFR47 part 15, ed 2015-04-21 (e-CFR) class B
max. capacity	24 standard tubes (10 x 75 mm or 12 x 75 mm)
max. RPM	3,500 min ⁻¹
max. RCF	1,438
radius (both rotors)	105 mm
dimensions (HxWxD)	330x480x280 mm
weight	approx. 24.5 kg
max. noise level	≤ 49 dB (A)
Cat. No.	1008-00

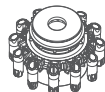
The ROTOLAVIT II is not available in all countries.

Available rotors

SWING-OUT ROTORS		angle	max. RPM	max. capacity	Cat. No	page
	Swing-out rotor, 12-place	45°	3,500 min	12 x (10x75 mm* or 12x75 mm) * Tubes requires adapter No. 1019	1017-A	172
	Swing-out rotor, 24-place	45°	3,500 min	24 x (10x75 mm* or 12x75 mm) * Tubes requires adapter No. 1019	1018-A	172



— Swing-out rotor, 12-place | 1017-A



Rotor

max. RPM max. RCF	3,500 min ⁻¹ 1,438
max. capacity	12 x 5 ml
angle max. noise level	45° 49 dB (A)
Cat. No.	1017-A

tubes²⁾



Vessels

capacity in ml	3	5
Ø x L in mm	10 x 75	12 x 75
max. RCF ²⁾	1,438	1,438
radius in mm	105	105



Adapter

boring Ø x L in mm	-	-
vessels per rotor	12	12
Cat. No.	1019 (12 pcs.)	-



— Swing-out rotor, 24-place | 1018-A



Rotor

max. RPM max. RCF	3,500 min ⁻¹ 1,438
max. capacity	24 x 5 ml
angle max. noise level	45° 49 dB (A)
Cat. No.	1018-A

tubes²⁾



Vessels

capacity in ml	3	5
Ø x L in mm	10 x 75	12 x 75
max. RCF ²⁾	1,438	1,438
radius in mm	105	105



Adapter

boring Ø x L in mm	-	-
vessels per rotor	24	24
Cat. No.	1019 (12 pcs.)	-



2) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers. The max. RCF for glass tubes annotated with footnote 2) is 4,000.



Product videos

Would you like to learn more about this product?
Scan the QR Code to visit our YouTube channel:
www.youtube.com/hettichlabtechnology



DUAL CENTRIFUGE

Homogenizing, mixing and
milling – fast and efficient



ZENTRIMIX 380 R

on page 178



06

ZENTRIMIX 380 R

Efficient and safe work in the laboratory

The dual centrifuge ZentriMix 380 R allows many challenging laboratory tasks in research, development and analytics in a very efficient way or makes them possible for the first time. Examples are the rapid mixing of viscous materials, the production of nanoparticles in closed (sterile) vessels or tissue disruption. A particular advantage is the powerful cooling system for temperature-sensitive samples.

The ZentriMix 380 R was developed on the basis of proven Hettich centrifuge technology. This makes the device safe, reliable and durable. In addition, the compact design and the low noise level ensure a comfortable working environment in the laboratory.

— Features

- (Nano-) Milling of samples
- QuEChERS-Analysis in one step in 50-70 % less time
- Fast und homogeneous mixing of highly viscous materials
- Usage of inexpensive standard-vials
- Eliminates cleaning time and effort vs. the standard mills or mixers
- Guarantees sterility of the sample (i.e. genetic analysis after milling)
- Integrated cooling for sensitive samples
- Very wide volume bandwidth when mixing (2 ml to 250 ml)

— Fields of application

- Analytical laboratories
- Food control laboratories
- University / Academic research
- Pharmaceutical laboratories
- Forensic laboratories
- Environmental laboratories
- Cell culture laboratories
- Cosmetic laboratories



More information about the control panel
can be found on [page 206](#)



Find out more
about the product.



Technical data

ZentriMix 380 R

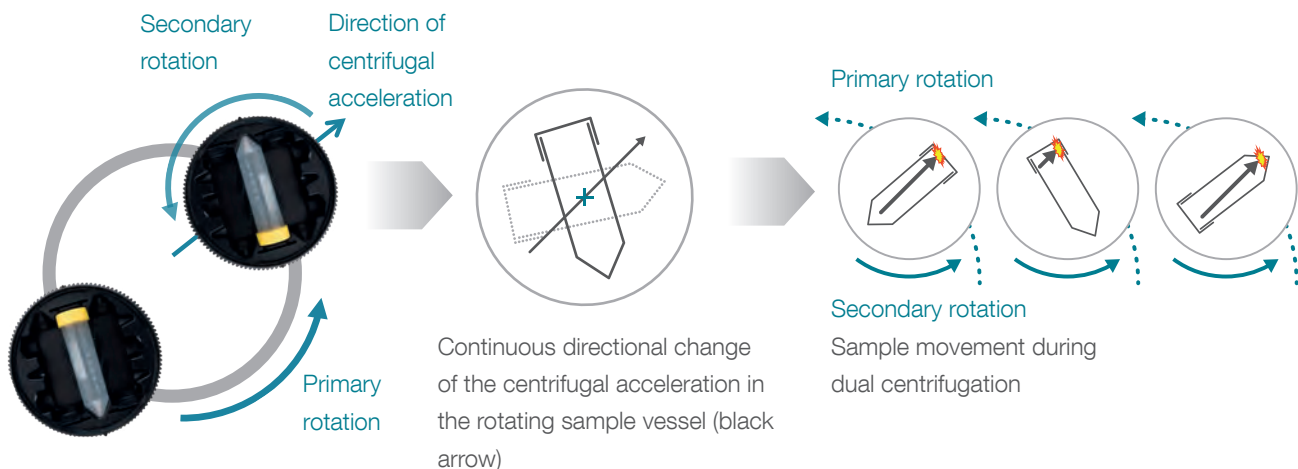
voltage ¹⁾	200 – 240 V 1 ~	110 – 127 V 1 ~
frequency	50 – 60 Hz	60 Hz
consumption	1,400 VA	1,600 VA
emission, immunity	EN/IEC 61326-1, class B	FCC class B
max. capacity	2 x 250 ml / 40 x 2.0 ml	2 x 250 ml / 40 x 2.0 ml
max. RPM (S rotor / Swing-out rotor, 4-place)	2,500 / 5,000 min ⁻¹	2,500 / 5,00 min ⁻¹
max. RCF (S rotor / Swing-out rotor, 4-place)	1,048 / 4,863	1,048 / 4,863
dimensions (WxDxH)	472x759x418 mm	472x769x418 mm
weight	approx. 81.5 kg	approx. 89 kg
Cat. No.	3200	3200-01

1) Other voltages on request.

Available rotors

ROTORS		angle	max. RPM	max. capacity	Cat. No.	page
	H rotor, 2-place	40°	1,500 min ⁻¹	2 x 250 ml	3206	178
	S rotor, 2-place	40°	2,500 min ⁻¹	2 x 250 ml	3205	178
	Swing-out rotor, 4-place	90°	5,000 min ⁻¹	4 x 250 ml	3234	179

Operating principle of the rotor



H rotor, 2-place | 3206



Rotor

max. RPM max. RCF	1,500 min ⁻¹ 377
max. capacity	2 x 250 ml
run-up run-down, braked in sec	22 24
angle temperature in °C ²⁾	40° +20
Cat. No.	3206

Vessels

	-	-	tubes	jars with screw cap			
capacity in ml	2.0	10	15	50	125	185	250
Ø x L in mm	11 x 45.5	25.5 x 46	17 x 121	29.5 x 116	67 x 73,7	68 x 60	68 x 79
max. RCF ²⁾	377	377	377	377	307	319	319
radius in mm	150	150	150	150	122	127	127



Adapter

vessels per rotor	40	4	6	6	2	2	2
Cat. No.	3236	3211	3218	3218	3237-2	3221-A	3221-A



S rotor, 2-place | 3205



Rotor

max. RPM max. RCF	2,500 min ⁻¹ 1,048
max. capacity	2 x 250 ml
run-up run-down, braked in sec	35 35
angle temperature in °C ²⁾	40° +20
Cat. No.	3205

Vessels

	- 37)	- 38.1)	jars with screw cap		
capacity in ml	2.0	10	125	185	250
Ø x L in mm	11 x 45.5	25.5 x 46	67 x 73,7	68 x 60	68 x 79
max. RCF ²⁾	1,048	1,048	852	886	886
radius in mm	150	150	122	127	127



Adapter

vessels per rotor	4	4	2	2	2
Cat. No.	3236	3211	3237-2	3221-A	3221-A



Removal aid for twist-top disk 3236

3210

Removal aid for twist-top disk 3237-2 and 3221-A

3223

37) Conical 2 ml Sarstedt PP microlitre tubes with screw cap (Art.No. 72.693.005)

38.1) Please only use polypropylene vessels in accordance with ISO 8362 (No Glass!), to fit into the adapter the height of the vessel including crimp cap and stopper should be 48.5 mm.

39) All S rotor adapters can also be used in the H rotor.

41) Straight-walled 125 ml Thermo Fischer PPCO wide-neck jars with screw cap (Art.No. 2118-0004)

— Swing-out rotor, 4-place | 3234



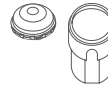
Rotor

max. RPM max. RCF	5,000 min ⁻¹ 4,863
max. capacity	4 x 250 ml
run-up run-down, braked in sec	42 27
angle	90°
Cat. No.	3234



Bucket

lid bioseal ⁵⁾	1751
Cat. No.	1752



Vessels

	38.2)	tubes ⁷⁾						tubes with screw cap ⁴⁰⁾				
capacity in ml	10	9	15	94	100	100	250	15	50	30	50	250
Ø x L in mm	25.5 x 49	14 x 100	17 x 100	38 x 102	40 x 115	44 x 100	65 x 115	17 x 120	30 x 115	25 x 110	30 x 115	62 x 122
max. RCF ⁷⁾	top / bottom	4,695	4,668	4,668	4,807	4,640	4,640	4,863	4,863	4,528	4,752	4,863
radius in mm	top / bottom	168	167	167	172	166	166	174	174	162	170	174



Adapter

boring Ø x L in mm	26 x 33	17.5 x 62	17.5 x 62	38.5 x 80	41 x 97	45 x 87	66 x 104.5	17 x 84	30 x 84	26.5 x 72	30 x 80	62 x 100
vessels per rotor	24	52	52	8	4	4	4	36	16	20	16	4
Cat. No.	3235	1763-A	1763-A	1777	1767	1766	1768	1771-A	1772-A	1779	1774-A	1769

5) Tested by the TÜV in conformity with DIN EN 61010, section 2-020.

7) Please note that the RCF values indicated refer only to rotor performance. The max. permissible RCF of tubes used should be verified with the individual manufacturers.

38.2) Polypropylene vessels in accordance with ISO 8362.

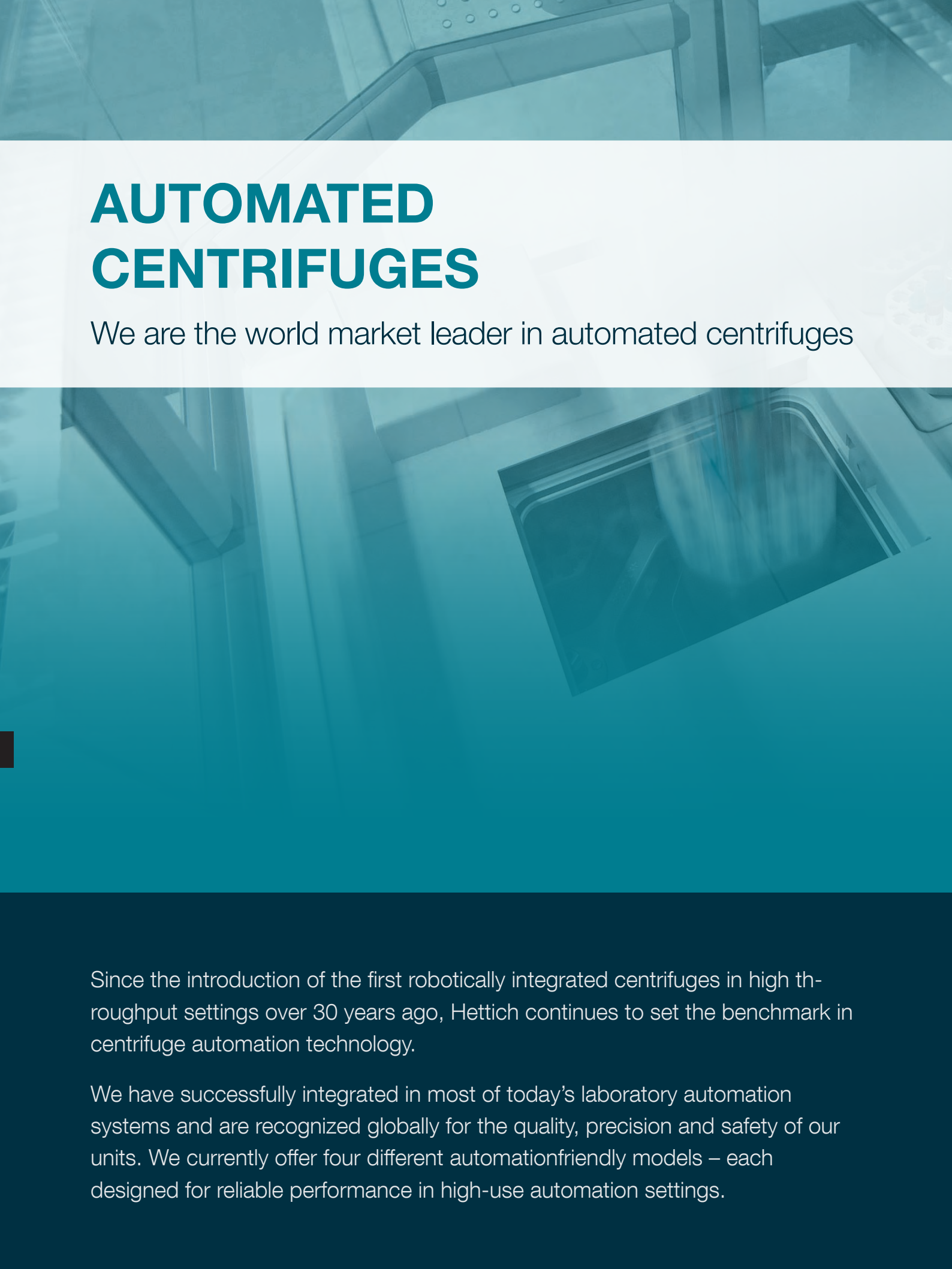
40) At temperatures of over +40 °C and / or when not filled to capacity, bottles may warp during centrifugation.



Product videos

Would you like to learn more about this product?
Scan the QR Code to visit our YouTube channel:
www.youtube.com/hettichlabtechnology





AUTOMATED CENTRIFUGES

We are the world market leader in automated centrifuges

Since the introduction of the first robotically integrated centrifuges in high throughput settings over 30 years ago, Hettich continues to set the benchmark in centrifuge automation technology.

We have successfully integrated in most of today's laboratory automation systems and are recognized globally for the quality, precision and safety of our units. We currently offer four different automationfriendly models – each designed for reliable performance in high-use automation settings.

07



**MIKRO 220
ROBOTIC**



**SBS 300 | 300 R
ROBOTIC**



**ROTINA 380 |
380 RC ROBOTIC**



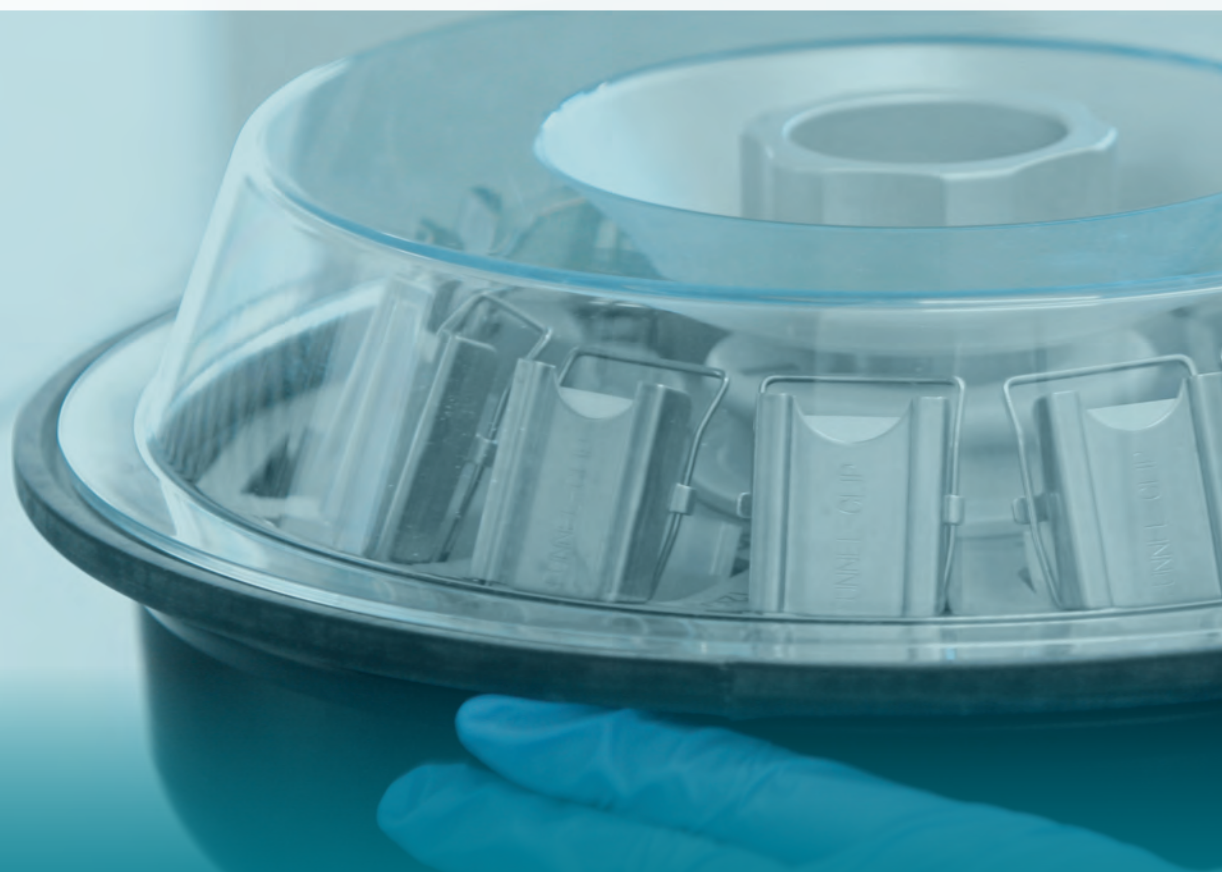
**ROTANTA 460
ROBOTIC**

More information about our automated centrifuges can be found on our website at www.hettichlab.com or on [YouTube](#).



EQUIPMENT

The useful addition



Cyto system
on page 184



Rolling cabinet
on page 189



**Blood bank
accessories**
on page 189



08

HETTICH CYTO SYSTEM

Cytological preparations – safe and economic

Increased demands on security or flexibility as well as time and cost pressures represent a large challenge for today's cytology laboratory. Hettich's three cyto systems are available to tackle these challenges. Reliable, flexible and cost-saving solutions.

SYSTEM 1

System 1 is particularly suitable for a high sample throughput thanks to its 12-place rotor. In addition, the autoclavable Swing-out rotor with a TÜV certified, bioseal rotor lid provides maximum safety. This system can be used in two proven Hettich benchtop centrifuges, offers comprehensive accessories and is very easy to handle. The end results is an optimal cell presentation.


Compatible for models:

UNIVERSAL 320 / 320 R |
ROTOFIX 32 A

Benefits:

- Closed, autoclavable rotor with Bio-Seal lid
- 12-place Swing-out rotor for maximum sample throughput
- Large selection of cytochambers for single and multiple use. Re-usable cytochambers are autoclavable
- Easy handling
- Good cell representation

SYSTEM 2

This system offers you the highest possible flexibility. On the one hand, volumes between 1 and 8 ml can be prepared while up to 8 cell sediments can fit on a single slide. In addition, this accessory can be used in many Hettich centrifuges, often without rotor replacement. This accessory is inexpensive and is characterized by a high, representative cell yield.


Compatible for models:

ROTOFIX 32 A | UNIVERSAL 320 /
320 R | ROTINA 380 / 380 R | ROTINA
420 / 420 R | ROTANTA 460 / 460 R |
ROTIXA 500 RS

Benefits:

- Large variety of accessories
- Flexible sample volumes
- Can be used with or without filter cards, depending on application and requirements.
- Very high cell yield

SYSTEM 3

System 3 combines the easy handling of System 1 with the flexibility and price advantage of System 2. It can operate in a variety of Hettich centrifuges and, like System 1, requires only a single centrifugation step to arrive at a dry cell pellet. The three different sediment size options give a distinct advantage.


Compatible for models:

ROTOFIX 32 A | ROTINA 420 / 420 R |
UNIVERSAL 320 / 320 R

Benefits:

- Easy handling
- Ideal for small sample volumes
- Can be used with or without filter cards, depending on application and requirements (dry or moist cell sediment).

Assembly of a complete cyto insert

SYSTEM 1

cyto chamber with filter card

Clips

Swing-out rotor, 12-place

MOST POPULAR

SYSTEM 2

lid

ring

cyto chamber

Slide carrier with filter card

bucket

SYSTEM 3

lid

cyto chamber

Slide carrier with filter card and ring

bucket

SYSTEM 1 – rotor and accessories

— Swing-out rotor

Swing-out rotor, 12-place For ROTOFIX 32 A UNIVERSAL 320 / 320 R			Lid bioseal ⁵⁾	
max. RPM max. RCF	2,000 min ⁻¹ 438	+	Cat. No.	INCLUSIVE
max. capacity	12 cyto chambers			
run-up run-down, braked in sec	19 18			
angle	90°			
Cat. No.	1515-A		Stand	1528

— Cyto chambers

Cyto chambers (disposable)		
capacity in ml	0.5	0.2
area in mm ²	28.3	28.3
Ø in mm	6	6
Cat. No.	1531 (50 pcs.) 1534 (500 pcs.)	1532 (50 pcs.)

+

Clips (autoclavable)		
Cat. No.	1524 (4 pcs.)	1524 (4 pcs.)

+

Filter cards		
Cat. No.	filter card white (inclusive)	filter card brown (inclusive)

5) Tested by the TÜV in conformity with DIN EN 61010, section 2 - 020.

SYSTEM 2 – rotors and equipment

— Swing-out rotor

Swing-out rotor, 4-place For ROTOFIX 32 A | UNIVERSAL 320 / 320 R

max. RPM max. RCF	4,000 min ⁻¹ 2,451
max. capacity	8 cyto chambers
run-up run-down, braked in sec	22 25
angle	90°

Cat. No. 1624



Bucket

lid 1661

Cat. No. 1660



Swing-out rotor, 4-place For UNIVERSAL 320 / 320 R

max. RPM max. RCF	5,000 min ⁻¹ 2,879
max. capacity	8 cyto chambers
run-up run-down, braked in sec	30 32
angle temperature in °C ¹⁾	90° -10

Cat. No. 1494



Bucket

Cat. No. 1452



Swing-out rotor, 4-place For ROTINA 380 / 380 R

max. RPM max. RCF	4,000 min ⁻¹ 2,898
max. capacity	16 cyto chambers
run-up run-down, braked in sec	24 17
angle temperature in °C ¹⁾	90° -8

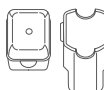
Cat. No. 1798



Bucket

lid 5053

Cat. No. 5051



Adapter

Cat. No. 5280



Swing-out rotor, 4-place For ROTINA 420 / 420 R

max. RPM max. RCF	4,000 min ⁻¹ 2,898
max. capacity	16 cyto chambers
run-up run-down, braked in sec	18 16
angle temperature in °C ¹⁾	90° -1

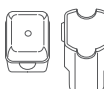
Cat. No. 4753



Bucket

lid 5053

Cat. No. 5051



Adapter

Cat. No. 5280



Swing-out rotor, 4-place For ROTANTA 460 / 460 R / 460 RC / 460 RF

max. RPM max. RCF	4,000 min ⁻¹ 3,095
max. capacity	16 cyto chambers
run-up run-down, braked in sec	40 45
angle	90°

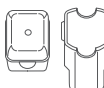
Cat. No. 5694



Bucket

lid 5053

Cat. No. 5051



Adapter

Cat. No. 5280



Swing-out rotor, 4-place For ROTANTA 460 / 460 R / 460 RC / 460 RF

max. RPM max. RCF	4,600 min ⁻¹ 4,069
max. capacity	16 cyto chambers
run-up run-down, braked in sec	75 88
angle temperature in °C ¹⁾	90° +10
Cat. No.	5699-R



Bucket

Cat. No.	5628
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Adapter

Cat. No.	5220-A
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Adapter

Cat. No.	5280
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Swing-out rotor, 6-place For ROTOFIX 32 A | UNIVERSAL 320 / 320 R

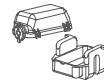
max. RPM max. RCF	4,000 min ⁻¹ 2,039
max. capacity	12 cyto chambers
run-up run-down, braked in sec	22 25
angle temperature in °C ¹⁾	90°
Cat. No.	1626



Bucket

lid	1661
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Cat. No.	1660
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Swing-out rotor, 6-place Passend für ROTINA 380 / 380 R

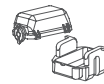
max. RPM max. RCF	4,000 min ⁻¹ 2,003
max. capacity	12 cyto chambers
run-up run-down, braked in sec	19 18
angle temperature in °C ¹⁾	90° -6
Cat. No.	1726



Bucket

lid	1661
-----	------

Cat. No.	1660
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Swing-out rotor, 6-place For ROTANTA 460 | 460 R | 460 RC | 460 RF

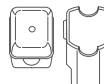
max. RPM max. RCF	4,000 min ⁻¹ 3,291
max. capacity	24 cyto chambers
run-up run-down, braked in sec	38 46
angle temperature in °C ¹⁾	90° 0
Cat. No.	4446



Bucket

lid	5053
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Cat. No.	5051
-----------------	-------------



Adapter

Cat. No.	5280
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Swing-out rotor, 6-place For ROTIXA 500 RS

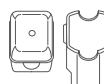
max. RPM max. RCF	4,000 min ⁻¹ 3,274
max. capacity	24 cyto chambers
run-up run-down, braked in sec	33 50
angle temperature in °C ¹⁾	90° 0
Cat. No.	4296



Bucket

lid	5053
-----	------

Cat. No.	5051
-----------------	-------------



Adapter

Cat. No.	5280
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Product videos

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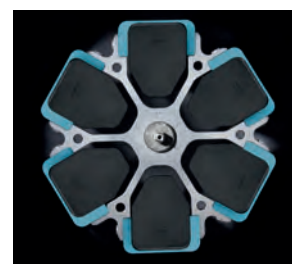
Cyto chambers

						
Cyto chambers						
capacity in ml	1	2	4	8	3 x 2	4 x 1
area in mm ²	30	60	120	240	3 x 60	4 x 30
Ø in mm	6.2	8.7	12.4	17.5	3x8.7	4x6.2
Cat. No.	1663-100 (100 pcs.)	1664-100 (100 pcs.)	1665-100 (100 pcs.)	1666-100 (100 pcs.)	1667-100 (100 pcs.)	1668-100 (100 pcs.)
	Slide carrier with ring	Slide carrier for two chambers	Slide carrier with ring	Slide carrier for two chambers	Slide carrier with ring	Slide carrier for two chambers
Slide carrier (autoclavable)						
Cat. No.	1662	1670	1662	1670	1662	1670
						
Filter cards for 1662						
Cat. No.	1675 (200 pcs.)	1675 (200 pcs.)	1675 (200 pcs.)	1676 (100 pcs.)	1677 (100 pcs.)	1678 (100 pcs.)
						
Filter cards for 1670						
Cat. No.	1692 (200 pcs.)	1692 (200 pcs.)	1692 (200 pcs.)	1691 (100 pcs.)	1694 (100 pcs.)	1693 (100 pcs.)

SYSTEM 3 – rotors and equipment

Swing-out rotors

Swing-out rotor, 4-place For ROTOFIX 32 A UNIVERSAL 320 / 320 R			
max. RPM max. RCF	4,000 min ⁻¹ 1,467	+	lid
max. capacity	4 cyto chambers		inclusive
run-up run-down, braked in sec	20 25		Cat. No.
angle	90°		1680
Cat. No.	1624		
Swing-out rotor, 6-place For ROTOFIX 32 A UNIVERSAL 320 / 320 R			
max. RPM max. RCF	5,000 min ⁻¹ 1,842	+	lid
max. capacity	6 cyto chambers		inclusive
run-up run-down, braked in sec	20 22		Cat. No.
angle	90°		1680
Cat. No.	1626		



Cyto chambers

						
Cyto chambers						
area in mm ²	30	60	120			
Ø in mm	6.2	8.7	12.4			
Cat. No.	1671-100 (100 pcs.)	1672-100 (100 pcs.)	1673-100 (100 pcs.)			
	Slide carrier with ring	Slide carrier with ring	Slide carrier with ring			
Slide carrier (autoclavable)						
Cat. No.	1662	1662	1662	Filter cards		
				Cat. No.	1696 (100 pcs.)	1697 (100 pcs.)
						1698 (100 pcs.)

Rolling cabinets

All rolling cabinets are of sturdy design and feature castors and two locks. Any vibrations of the centrifuge are safely compensated for.



Low and narrow,
with one drawer.
Depth 650 mm

Cat. No. 4612-A

Low and wide,
with one drawer.
Depth 650 mm

Cat. No. 4614-A

High and narrow,
with two drawers.
Depth 650 mm

Cat. No. 4613-A

High and wide,
with two drawers.
Depth 650 mm

Cat. No. 4615-A

MODEL	ROTOFIX		UNIVERSAL		ROTINA		ROTINA		ROTANTA		ROTOFIX	
Model variant	32 A		320	320 R	380	380 R	420	420 R	460	460 R	46	46 H
4612-A + 4613-A	•		•	•	•	•	•		•		•	•
4614-A + 4615-A							•		•			

• Rolling cabinet is compatible for the marked model.

Accessories for centrifuging blood bag systems



HettLiner

Blood bags can be secured in inserts using HettLiners. After centrifuging, they can be removed by their loops without disturbing the sediment.

Cat. No. 4564



Compensatory weights (set)

If blood bag carriers are not filled to the same weight, then compensatory weights can be used to make up the difference. One set includes:
40 balancing weights, 2 g each;
20 balancing weights, 5 g each;
10 balancing weights, 10 g each;
5 balancing weights, 20 g each;
5 balancing weights, 40 g each

Cat. No. 4566



Balancing inserts*

In case there are not enough blood bag systems to occupy every carrier of the rotor, empty carriers can be filled with balancing inserts. Taring weights supplied with the inserts may be used for fine balancing.

4584-A for insert 4559-A

4587-A for insert 4592-B

4589-A for insert 4516-A



Loading aid

Secure your samples and avoid accidental spillage with the convenient Loading aid for centrifuge inserts. The Hettich Loading aid allows users to confidently hold and manage their samples without the risk of the inserts toppling over.

Cat. No. 4509

* Can only be used for ROTO SILENTA 630 RS inserts.

INCUBATORS

Efficient use of valuable space



HettCube 200 | 200 R
on page 192



HettCube 400 | 400 R
on page 192



HettCube 600 | 600 R
on page 192

09



HettCube 60
on page 201



HettCube 120
on page 201

HETTCUBE INCUBATORS

With touchscreen and more options

With the touch screen, HettCube incubators and cooled incubators guarantee intuitive operation with flexible and individual setting options and many new Features. The proven combination of natural and forced convection ensures stable and homogeneous temperatures in a much larger part of the interior than conventional incubators. This offers you up to 30% more validated useful space with the same interior space. In addition, the high design of the HettCube incubators requires up to 50% less floor space with comparable capacity.

— Features

- Maximal validated usable space on a small footprint
- One-hand operation without additional inner door
- 4.3 inch touch display for intuitive operation
- Automatic door closure with magnetic seals, door orientation can be easily changed
- Low noise level of ≤ 44 dB(A)
- TÜV certified and factory certificate HettCert with 9 measuring points according to DIN 12880:2007-5 standard
- Environmental friendly cooling gas R290
- HettCube without cooling requires only 1°K (1 °C) above stable ambient temperature
- Models with IVDR approval
- Inclusive up to 3 standard shelves and 1 HTS shelf with telescopic rail. Additionally for cooled models:
- Temperature drop with holiday function
- Temperature selection monitor class 3.2

— Fields of application

- Microbiological laboratories
- Hospital
- Pharmaceutical laboratories
- Food analyzing laboratories
- Scientific laboratories in universities
- Cosmetic industry
- Food and beverage
- Agricultural industry
- Life science



according to regulation (EU) 2017/746



Find out more
about the product.

Technical data



HettCube 200 | 200 R



HettCube 400 | 400 R



HettCube 600 | 600 R

Temperature range for incubators cooled incubators	1 K above ambient temperature up to +65 °C 0 °C up to +65 °C	1 K above ambient temperature up to +65 °C 0 °C up to +65 °C	1 K above ambient temperature up to +65 °C 0 °C up to +65 °C
Exterior dimensions (without access port and door handle) W x D x H in mm	710 x 825 x 970	710 x 825 x 1425	710 x 825 x 1,990
Interior dimensions W x D x H in mm	535 x 690 x 420	535 x 690 x 850	535 x 690 x 1,415
Internal volume in liters	150	310	520
Validated usable volume in liters	82	199	351
Percentage validated usable volume / internal volume	54 %	64 %	67 %
Footprint in m ²	0.6	0.6	0.6
Weight in kg	92 103	117 128	164 175
Number of shelves provided as standard	2 (1 standard + 1 HTS)	3 (2 standard + 1 HTS)	4 (3 standard + 1 HTS)
Temperature fluctuation at +37 °C	± 0.1 K	± 0.1 K	± 0.1 K
Temperature uniformity at +37 °C	± 0.2 K	± 0.2 K	± 0.2 K
Temperature uniformity at +25 °C	± 0.1 K	± 0.1 K	± 0.1 K
Recovery time after door has been opened for 30 s at +37 °C	≤ 3 min	≤ 4.5 min	≤ 5.5 min
Energy consumption at +37 °C	0.038 kWh/h	0.046 kWh/h	0.056 kWh/h
Noise level	≤ 41 dB (A) ≤ 44 dB (A)	≤ 41 dB (A) ≤ 44 dB (A)	≤ 41 dB (A) ≤ 44 dB (A)
Power supply	220 – 240 V 1 ~ / 50 – 60 Hz	220 – 240 V 1 ~ / 50 – 60 Hz	220 – 240 V 1 ~ / 50 – 60 Hz
Cat. No.	62000 62005	64000 64005	66000 66005
Other voltages			
100-120 V 1 ~ / 50 – 60 Hz	62000-01 62005-01	64000-01 64005-01	66000-01 66005-01

Product videos

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www.youtube.com/hettichlabtechnology



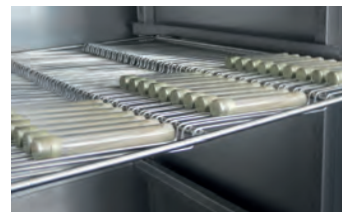
More options and accessories



Switchboard



Rack for petri dishes



Rack for Loewenstein application

	Cat. No.
Shelf (Set) Made of stainless steel, with standard rails, max. load (kg): 50	60001
Shelf (HTS-Set) Made of stainless steel, with telescopic rails, extendable up to 70 %, max. load (kg): 40	60031
Drawer (HTS-Set), High 30 mm Made of stainless steel, with telescopic rails, extendable up to 70 %, tightly welded, max. load (kg): 40	60024
Drawer (HTS-Set), High 65 mm Made of stainless steel, with telescopic rails, extendable up to 70 %, tightly welded, max. load (kg): 40	60025
Drawer (HTS-Set), High 105 mm Made of stainless steel, with telescopic rails, extendable up to 70 %, tightly welded, max. load (kg): 40	60026
Rack (HTS-Set) For Petri dishes, stainless steel, with telescopic rails, extendable up to 70 %, Petri dishes Ø (mm): 90, max. load (pcs): 90	60038
Rack (Set) For Petri dishes, stainless steel, with standard rails, Petri dishes Ø (mm): 90, max. load (pcs): 90	60039
Rack For Petri dishes, stainless steel, Petri dishes Ø (mm): 90, max. load (pcs): 90	60040
Rack (HTS-Set) For inclined storage of cultures (Loewenstein), stainless steel, with telescopic rails, extendable up to 70 %, inclination angle: 5°, tube Ø (mm): 15-20, max. load (pcs): 81tube	60036
Rack (Set) For inclined storage of cultures (Loewenstein), stainless steel, with standard rails, inclination angle: 5°, tube Ø (mm): 15-20, max. load (pcs): 81 tubes	60037
Rack For inclined storage of cultures (Loewenstein), stainless steel, inclination angle: 5°, tube Ø (mm): 15-20, max. load (pcs): 81 tubes	60041
Frame L, 16-place Made of stainless steel, for inclined storage of cultures, tube Ø (mm): 15-20, Tube length (mm): 100-125, inclination angle 5° or 20 °	60027
Frame XL, 16-place Made of stainless steel, for inclined storage of cultures, tube Ø (mm): 15-20, Tube length (mm): 126-170, inclination angle 5° or 20 °	60028
Switchboard 4-fold socket strip, as a unit controllable via display, on the back of the device	60521
Independent PT 100 sensor For independent temperature measurement, four-wire system, temperature values output with analogue output 4-20 mA on the back of the device	60503
Passive dehumidification For individual or timed opening of a dehumidification module via the touchscreen	60042
Service: Assembly of the Stacking kit for the HettCube 200 200 R	60043
Service: Changing the door hinge	60044
Glass door All-glass outer door, for HettCube 200 200 R	60030
Glass door All-glass outer door, for HettCube 400 400 R	60029
Glass door All-glass outer door, for HettCube 600 600 R	60013
Access port Ø (mm): 22, Foam stoppers	60006
Access port Ø (mm): 42, Foam stoppers	60007
Access port Ø (mm): 67, Foam stoppers	60008
Stacking kit For safe stacking of two HettCubes 200 200 R	60009
Rolling cabinet Lockable, with one drawer, incl. lockable castors, WxDxH (mm): 770x800x550, for HettCube 200 200 R	60010
USB Port Lock (Set) For securing the USB-A interface. Set consisting of 10 securing clips and 1 USB key tool.	60525
Parameter for continuous cooling operation For storing samples below 15 °C for more than 2 weeks	60526

— Extensive standard equipment



4.3 inch touchscreen



Shelf (HTS-Set) with telescopic rails



Access port on rear panel
Ø 42 mm

4.3 inch touchscreen:

- Target / actual display
- Setting accuracy 0.1 ° C
- Real-time calendar
- Timer
- Language options (English, German, French and Spanish)
- Temperature diagram in 3 zoom levels (up to 4 weeks)
- Power failure scenarios
- Door alarm individually adjustable
- Log (door openings, alarms and operating hours)
- PIN lock
- Up to 99 program functions (Start/Stop, Period, Timer at start, Timer at temperature, ...)
- Temperature selection monitor class 3.1 for all models

Additionally with refrigerated devices

- Temperature reduction with holiday function
- Temperature selection monitor class 3.2 for all refrigerated models
- Programming external devices via switchboard (option)

Control panel and door lockable simultaneously

USB service interface

Bushing on rear panel Ø 42 mm

Potential-free alarm output

Interior of high-quality stainless steel (W-St 1.4301 (ASTM 304))

In addition you get for free ...

Up to 3 Shelf standard shelves of stainless steel (depending on model size)

HTS shelf of stainless steel with telescopic rails

Factory certificate (HettCert) – 9 points measurement analog to DIN 12880: 2007-05

Rebates available for unused shelves*

* Choose other shelves / drawers as standard, we credit you the price of unused standard inserts.

— Everything under control



Intuitive operation with touchscreen

Get clear and concise information on your incubation process – at a glance! With the new 4.3 inch touchscreen and intuitive menu dashboard, you can easily view the status of the device, as well as any alarms and events in the past 4 weeks. Any event or irregularity (such as door openings, tolerance band violations or power failures) are electronically documented in the logbook.

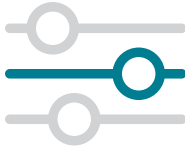


Easy weekly programming

The user-friendly touchscreen allows for uncomplicated adjustment of weekly programming without additional software – directly on the device. The holiday function allows you to define additional temperature drops for your days off already months in advance. Easily determine the start time or the time period as well as the frequency of your Temperature reduction in a real-time calendar.



■ Safety for your samples



Flexible settings

Various events and alarm functions are individually adjustable. For example: Deviations from the interior temperature can be limited individually over tolerance range limits or fixed via independent temperature safety device of Classes 3.1 and 3.2. Class 3.2 is already included in the standard version of all refrigerated HettCubes.



Process reliability even in the event of a power failure

With the new HettCube generation, you can keep control over your samples even in the event of a power failure. Define by yourself two different settings options how your HettCube's should behave in the event of a power failure.

Setting the period

By default, the device automatically restarts at the point where the power failed. But Users can also define the acceptable length of time in the event of a power failure. Once power is restored, the HettCube will verify whether this pre-set period has been exceeded. Should this be the case, the settings will be paused and the incubator will automatically move to a Standstill (Safe) Mode. Otherwise, the unit will continue with normal operation and user settings.

Setting the tolerance band

Tolerance band limits and holding temperature are individually configurable. After a power failure, the HettCube checks whether there is a tolerance band violation. The HettCube then automatically adjusts to the previous configured holding temperature. If there is no violation of the tolerance band the HettCube resumes its work.



Perfect conditions

HettCube incubators combine the advantages of natural and forced convection to provide a stable and uniform environment for cultures. The fan is housed outside of usable space, providing higher throughputs and limiting airflow inside the incubator. Temperature is primarily maintained by radiated heat to ensure even temperature distribution and to prevent hot spots. This yields optimum growth conditions and considerably reduces the potential of samples drying out.

Maximum usable space – smallest footprint

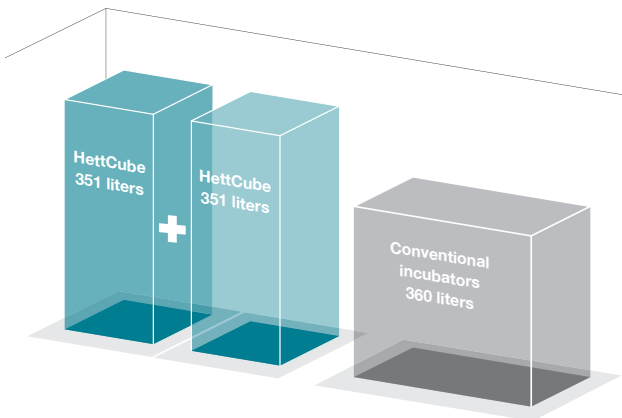
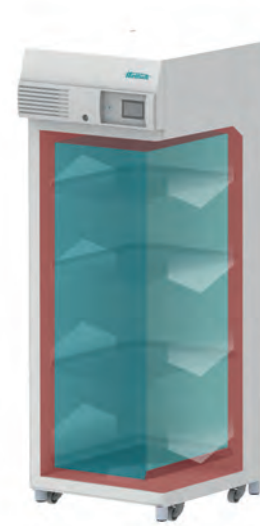
30 % more validated usable space

Due to their gentle air flow and edge-to-edge temperature uniformity, HettCube incubators provide up to 30 % more validated usable space* than a traditional incubator with the same internal volume.

*in accordance with DIN 12880:2007-05

■ 520 liters of interior space

■ 351 liters of validated usable space*



50 % smaller footprint

The HettCube's upright design requires up to 50 % less floor space than a traditional incubator with similar capacity. The space saving footprint allows you to nearly double your capacity by accommodating two HettCube incubators within the same footprint as one conventional incubator.

■ HettCube

702 liters of validated usable space with the same footprint

■ Conventional incubators

360 liters of validated usable space

HettCube	Conventional incubators
Gentle air flow + High-performance insulation + Small footprint =	Strong air flow + Bulky insulation + Large footprint =
Maximum loading capacity + Cost savings per m ² laboratory space	Low loading capacity + Higher costs per m ² laboratory space

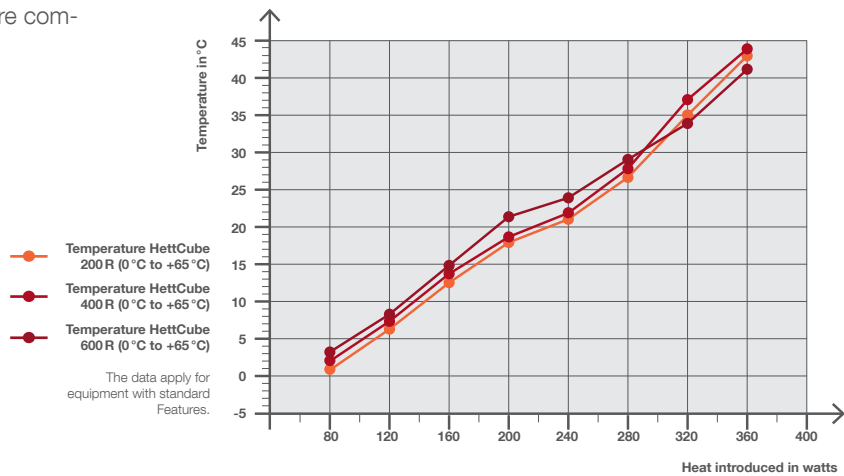
Heat compensation

Reliable compensation of temperature differences between the inside and outside

HettCube models react to changes in ambient conditions. Temperature fluctuations outside the incubator and energy introduced into the usable space by external equipment are compensated for immediately and actively.

Heat compensation of the HettCube 200 R | 400 R | 600 R

Lowest attainable temperature values upon introduction of equipment with different heat outputs.

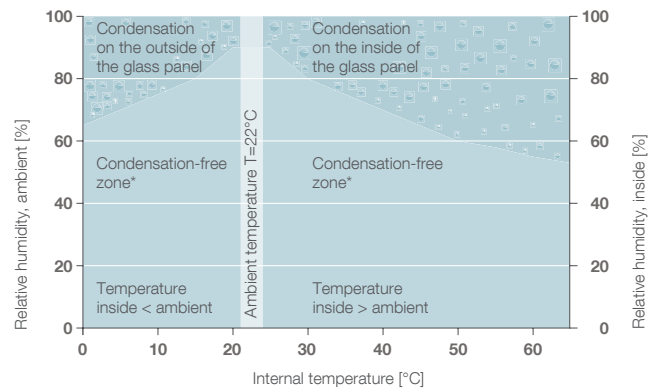


HettCubes with glass door

The optional glass door enables users to check on their cultures without opening the door.



Condensation diagram for HettCubes size 200 R | 400 R | 600 R with glass door at an ambient temperature of +22°C



— Low environmental impact



Minimal operating costs

Our HettCubes heat or cool only when needed. At an operating temperature of 37 °C a HettCube incubator consumes less than 0.056 kWh/h. This brings average savings of up to 450 Euro annually*. Therefore, investment costs are recouped within shorter time. The use of a HettCube incubator saves on average up to 940 kg of CO₂ emissions annually*. Additionally: The insulation of the HettCubes consists of water-driven foam, which contains no fluorinated hydrocarbons. Their GWP value (Global Warming Potential) is a thousand times lower than that of conventional insulating foams.

*Assuming 24h operation 365 days a year. The basis for calculation is € 0.29 per kWh/h – the average price of electricity in Germany in 2018 and 0.6 kg CO₂ per kWh/h.

First-class isolation

The advanced control system and insulation mean that the incubator will maintain a set temperature even if there is only a difference of 1 K (°C) from the ambient temperature. This allows an uncooled HettCube incubator to be used in situations in which a comparable incubator would require cooling.

— Proven Quality



Certifications

Hettich products comply with all applicable safety regulations, carry the TÜV seal and are compliant with IVDR. Hettich manufactures according to the applicable quality and environmental management systems, including ISO 9001, ISO 13485 and ISO 14001.

Each HettCube is temperature validated before delivery by means of the 9 point measurement and receives a HettCert factory certificate, included free of charge. All temperature data are determined according to DIN 12880: 2007-5.

Product videos



Would you like to learn more about this product?
Scan the QR Code to visit our YouTube channel:
www.youtube.com/hettichlabtechnology

SMALL INCUBATORS

More compact, just as efficient.



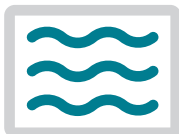
HettCube incubators are known for their large usable space within a small footprint. These two factors are crucial in laboratories with lower throughput and where every square meter is precious. Our small HettCubes fit perfectly as a compact benchtop unit for this purpose. The slim design combined with a wide range of functions makes the HettCube 60 and HettCube 120 desirable in terms of quality and price.

— Intuitive operation with touchscreen



Get clear and concise information – at a glance! With the 4.3-inch touchscreen and intuitive dashboard, you can easily view the device's status, alarms, and events. Every event or irregularity such as door opening or tolerance band violations are electronically documented in the logbook. Tolerance band limits can be fixed via the Class 2.0 and 3.1 temperature selector/monitor and saved as a program with up to 6 segments with different time-temperature profiles.

— Two variants for the perfect temperature control



The HettCubes 60 and 120 are available in two variants, natural or forced convection. The advantages of natural convection is gentle temperature control and lower energy consumption. It is particularly suitable for samples sensitive to desiccation. Compared to natural convection, forced convection is significantly faster and more effective in heat generation as well as in heat regeneration after door opening. Both systems combine sophisticated technology for air guidance and thus guarantee reproducible results of your samples' best growth conditions.

Technical data



HettCube 60
natural convection



HettCube 60
forced convection



HettCube 120
natural convection



HettCube 120
forced convection

Temperature range	5 K above ambient temp. up to +65 °C	7,5 K above ambient temp. up to +65 °C	5 K above ambient temp. up to +65 °C	6,3 K above ambient temp. up to +65 °C
Exterior dimensions W x D x H in mm	590 x 620 x 710	590 x 620 x 710	660 x 710 x 850	660 x 710 x 850
Interior dimensions W x D x H in mm	400 x 360 x 390	400 x 360 x 390	460 x 450 x 540	460 x 450 x 540
Internal volume in liters	56	56	112	112
Footprint in m ²	0,36	0,36	0,46	0,46
Weight in kg	62	62	82	82
Number of shelves (scope of delivery)	2	2	2	2
Maximum number of shelves	5	5	7	7
Maximum load in kg	40	40	60	60
Temperature fluctuation at (+37°C)	± 0,7 K	± 0,1 K	± 0,4 K	± 0,1 K
Temperature uniformity at (+37°C)	± 0,8 K	± 0,3 K	± 0,8 K	± 0,3 K
Power supply	220-240 V 1 ~ / 50 – 60 Hz	220-240 V 1 ~ / 50 – 60 Hz	220-240 V 1 ~ / 50 – 60 Hz	220-240 V 1 ~ / 50 – 60 Hz
Cat. No.	69601-10	69601-20	61201-10	61201-20
100-127 V 1 ~ / 50 – 60 Hz	69601-11	69601-21	61201-11	61201-21



— Extensive standard equipment



Standard wire shelf



Door lock



Access port

4.3 inch touchscreen:

- Dashboard with target / actual display, program status, events, settings, languages (DE, EN, FR, ES)
- Logbook (door openings, events, alarms)
- Class 2.0 and Class 3.1 temperature selector with visual and audible temperature alarm
- Internal memory for programs and data
- Optical and acoustic alarm in case of open door

Door lock

LAN and USB ports

Interior made of high quality stainless steel

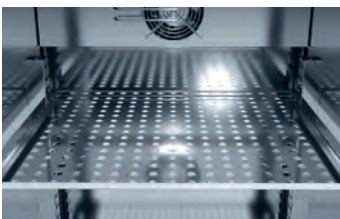
2 x standard wire shelves of stainless steel

Access port on left panel Ø 30 mm

Electric air flap with variable opening degree

2 x PT 100 temperature sensors

— Accessories



Perforated shelf



Reinforced wire shelf



Internal glass

	Cat. No.
Standard wire shelf for HettCube 60 Stainless steel, with standard rails, max. load (kg): 25	60045
Perforated shelf for HettCube 60 Stainless steel, with standard rails, max. load (kg): 25	60046
Reinforced wire shelf for HettCube 60 Stainless steel, with standard rails, max. load (kg): 50	60047
Internal glass door for HettCube 60	60051
Standard wire shelf for HettCube 120 Stainless steel, with standard rails, max. load (kg): 25	60052
Perforated shelf for HettCube 120 Stainless steel, with standard rails, max. load (kg): 25	60053
Reinforced wire shelf for HettCube 120 Stainless steel, with standard rails, max. load (kg): 50	60054
Internal glass door for HettCube 120	60055

MORE FOR YOUR LAB

Stability test and plant growth chambers,
refrigerators and freezers and many more!



Are you looking for climate control equipment? We are specialized in the design, manufacture, installation and maintenance of such equipment. HETTICH delivers standard equipment which can be adapted to your application. The product range includes all forms of simulation with the ability to control such variables as temperature, humidity and light.



For further information, please visit the website www.hettichbenelux.com or give us a call.



Or are you looking for reliable cooling solutions for healthcare or laboratory use? Philipp Kirsch GmbH specializes in the development, production, and maintenance of professional refrigeration and freezing equipment. Our products offer precise temperature control and ensure the safe storage of sensitive materials.



For more information, visit www.kirsch-medical.com or contact us directly.

 **Kirsch**
Member of the Hettich Group.

Control panels

The control panels from Hettich are easy to operate and specifically tailored to users' needs. Entry of the parameters is fast, precise and convenient by way of an adjuster knob and / or selector keys on a foil keypad. The intuitive display shows the actual values in digital format while the centrifuge is running.

E control panel



EBA 270



ROTOFIX 32 A

The E(conomy) control panel is fitted in the EBA 270 and ROTOFIX 32 A models. The required centrifugation parameters can be entered quickly and easily on the user-friendly keypad:

DISPLAY

RPM	Speed indication. Entry in increments of 100.
t	Time indication. Entry in minutes. max. 99 min.

KEYPAD

▲	Increases the relevant value.
▼	Decreases the relevant value.
PULSE	For short centrifugation steps.
OPEN	Opens the lid (EBA 270).
START	Starts centrifugation.
STOP	Stops centrifugation manually
RCF	Switches from RPM to RCF display (ROTOFIX 32 A).

E PLUS control panel



The models EBA 200, EBA 200 S, HAEMATOKRIT 200 and MIKRO 185 are operated with the E Plus control panel. In contrast to the E control panel this allows entry of the speed (RPM) or the relative centrifugal force (RCF).

DISPLAY

RCF	Relative centrifugal force.
RPM	Speed indication. Entry in increments of 10.
t/min:s	Centrifugation time (max. 99 min : 59 sec).

KEYPAD

▲	Increases the relevant value.
▼	Decreases the relevant value.
RCF	Switches from RPM to RCF display. Entry of the RCF in increments of 1. Input of rotor radius in mm in RCF mode.
SELECT	Guides the user through the menu options.
START	Starts centrifugation.
PULSE	For short centrifugation steps.
STOP	Stops centrifugation manually.
OPEN	Opens the lid at standstill.

M control panel



Centrifuge models EBA 280 and EBA 280 S are equipped with the M control panel. The parameters are selected with the Select key and the desired values are set using arrow keys and stored by pressing the Start/Pulse key.

DISPLAY

PROG	Program number. Ten programmable memories are available.
>RCF<	Relative centrifugal force.
RPM	Speed indication. Entry in increments of 10.
t/min:s	Centrifugation time (max. 99 min : 59 sec).

KEYPAD

PROG	Selects the program menu to call up or store programs.
RCF	Switches from RPM to RCF display. Entry of the RCF in increments of 1. Entry of the centrifuging radius in mm.
SELECT	Guides the user through the menu options.
▲	Increases the relevant value.
▼	Decreases the relevant value.
START	Starts centrifugation.
PULSE	For short centrifugation steps.
STOP	Stops centrifugation manually.
OPEN	Opens the lid at standstill.

A LED IN THE KEYBOARD LIGHTS UP:

- when the RCF display is activated (RCF key)
- during centrifugation (Start/Pulse key)
- during the braking period
(Start/Open key – LED at the right)
- if the lid can be opened
(Start/Open key – LED at the left)

N Plus control panel



The MIKRO 200 / 200 R. MIKRO 220 / 220 R. UNIVERSAL 320 / 320 R and ROTOFIX 46 / 46 H models are quick and easy to operate using this variant of the N control panel. The parameters are selected with the Select key. An adjuster knob is used to set the values, and the settings are stored by pressing the Start/Impulse key.

DISPLAY

P	Program number. Four (MIKRO 200 / 200 R) or 10 (MIKRO 220 / 220 R. UNIVERSAL 320 / 320 R. ROTOFIX 46 / 46 H) programmable memories are available.
T/°C	Temperature of refrigerated and heatable centrifuges. The temperature of the refrigerated models is infinitely variable between -20 °C and +40 °C (MIKRO 220 R. UNIVERSAL 320 R) or between -10 °C and +40 °C (MIKRO 200 R). Model ROTOFIX 46 H can be heated up to +90 °C.
>RCF<	Relative centrifugal force.
RPM	Speed indication. Entry in increments of 10.
t/min	Centrifugation time (max. 99 min : 59 sec).
—/—	Entry of the acceleration ramp 1 – 9
—/—	Entry of the braking ramp 0 – 9

KEYPAD

❄️	Pre-cools the rotor chamber (MIKRO 200 R. MIKRO 220 R and UNIVERSAL 320 R) to the required temperature.
🔥	Heats the rotor chamber of the ROTOFIX 46 H to the required temperature.
RCF	Switches from RPM to RCF display. Entry of the RCF in increments of 10. Input of rotor radius in mm in RCF mode.
SELECT	Guides the user through the menu options.
START	Starts centrifugation.
PULSE	For short centrifugation steps.
STOP	Stops centrifugation manually.
OPEN	Opens the lid at standstill.

C control panel



The advanced C control panel significantly facilitates the daily laboratory routine. Parameter selection is done via the use of symbol keys. Values are set with the control knob, and recorded by pressing the Start key. The temperature in the refrigerated ROTINA 380 R. ROTINA 420 R, ROTANTA 460 R and ROTANTA 460 Robotic centrifuges can be set in either Celsius (°C) or Fahrenheit (°F) degrees.

Display

PROG	Entry and recall of the program number. 98 programs can be stored.
T/°C	Entry of the temperature from -20 °C to +40 °C or -4 °F to +104 °F in increments of 1 with refrigerated models.
—/—	Entry of the run-up time in ramps 1 – 9 or in min : sec. Entry of the run-down time in ramps R 1 – 9 and B 1 – 9 or in min : sec. Also unbraked run-down or a brake force cut-off speed can be selected.
RCF	Entry of the relative centrifugal force in increments of 1. Entry of the centrifuging radius (RAD) in mm.
RPM	Entry of the speed in increments of 10.
TIME	Entry of the centrifugation time (max. 99 h : 59 min : 59 sec) or continuous operation.

KEYPAD

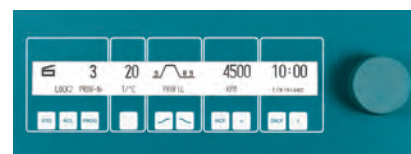
START	Starts centrifugation.
START	Starts short centrifugation.
START	Stores entries and changes.
❄️	Starts pre-cooling program PREC.
STOP	Stops centrifugation manually.
OPEN	Opens the lid at standstill.

Centrifuges with C control panel permit the centrifugation time to be switched from „at start“ (commencing upon start) to „at speed“ (start when the set speed has been reached).

OPTIONS

PROGRAM INTERLOCKING: to combine several centrifugation runs.

S control panel



This special-class control panel is standard with the ROTIXA 500 RS and ROTO SILENTA 630 RS floorstanding centrifuges.

Display

PROG-Nr	Program number.
	89 programmable memories are available.
T/°C	Temperature.
PROFIL	Run-up and run-down profile.
n/min-1	Speed indication.
t/min:sec	Centrifugation time (max. 999 min : 59 sec).

KEYPAD

STO	Stores the program.
RCL	Calls up the selected program.
PROG	Selects the program menu.
□	Entry of the temperature from -20 °C to +40 °C in increments of 1 °C. Entry of the rotor radius in mm in RCF mode
RCF	Switches from RPM to RCF display. Entry of the RCF in increments of 1.
—/—	Entry of the run-up time in ramps 1 – 9 or in min : sec.
—/—	Entry of the run-down time in ramps R 1 – 9 and B 1 – 9 or in min : sec. Also unbraked run-down or a brake force cut-off speed can be selected.
∫ RCF	The integral over the RCF indicates the overall RCF acting on the centrifuged material during the running time so far.
n	Entry of the speed in increments of 10.
t	Entry of the centrifugation time (max. 999 min : 59 sec) or continuous operation.
START	Starts centrifugation.
STOP	Stops centrifugation manually.

OPTIONS

PROGRAM INTERLOCKING: to combine several centrifugation runs.

DATA REPORT SYSTEM:

For detailed information on this subject, please refer to the HettInfo section on pages 162-163.

Centrifuge capacity guide

Commonly-used tubes at a glance										
	0.2 - 2	8 x 0.2	0.5	15	50	100	250	1.6 - 7	4 - 10	15
	Volume in ml									
	WxDxH in mm									
Ø x L in mm	6-11 x 38	-	11 x 36	17 x 100	34 x 100	40 x 115	65 x 115	13 x 75/100	16 x 75/100	17 x 120
Centrifuge models										
	Maximum number of tubes per centrifuge									
MANUAL CENTRIFUGE	-	-	-	4	-	-	-	4	4	4
EBA 200 EBA 200 S	-	-	8	8	-	-	-	8	- / 8	4
EBA 200 MD	-	-	-	-	-	-	-	8	- / 8	4
EBA 270	-	-	6	6	-	-	-	6	6	-
EBA 280 EBA 280 S	-	-	12	12	6	-	-	12	8 / 12	6
MIKRO 185	24	-	12	-	-	-	-	-	-	-
MIKRO 200 200 R	30	-	15	-	-	-	-	-	-	-
MIKRO 2.0 2.0 R	24	8 x 0.2	20	-	-	-	-	12	12	-
MIKRO 220 220 R	48 (60)	-	15	12	6	-	-	12	12	6
ROTOFIX 32 A	(36)	-	24	32	6	4 (44 x 100 mm)	-	40 / 32	28 / 32	32
ROTOFIX 32 A MD	-	-	-	-	-	-	-	40 / 32	28 / 32	32
UNIVERSAL 320 320 R	30	24 x 8	15	32	6	4 (44 x 100 mm)	-	40 / 32	28 / 32	32
ROTINA 380 380 R	30	-	15	52	12	4 (44 x 100 mm)	4	64 / 76	52	36
ROTINA 420 420 R	30 (96)	-	15	72	16	12	4	104 / 84	72	52
ROTANTA 460 460 R	30 (224)	-	15	148	16	12	6	196	148	96
ROTOFIX 46	-	-	-	48	8	4	4	-	-	28
ROTANTA 460 RC 460 RF	30 (224)	-	15	148	16	12	6	196	148	96
ROTIXA 500 RS	(336)	-	-	168	24	16	6	200	168	112
ROTO SILENTA 630 RS	-	-	-	180	36	24	-	180	180	138
MIKRO 220 Robotic	 24 /  12	-	-	-	-	-	-	-	-	-
SBS 300 Robotic	-	-	-	-	-	-	-	-	-	-
ROTINA 380 380 R 380 RC Robotic				on request				48	48	on request
ROTANTA 460 Robotic				on request				80	80	on request
ROTOLAVIT II	-	-	-	24 x 5 ml	-	-	-	-	-	-

										Maximum performance of the centrifuges	
50	250/500	250/290	650/750	1,000	2,000	MTP	500	-	-		
29x115/115	60x162/96x147	61x122/62x137	97x139/152	96x176	150x100x180	128x15x86	4-place	-	-		
Maximum number of tubes per centrifuge										max. RCF	max. RPM min ⁻¹
-	-	-	-	-	-	-	-	-	-	1,298	3,000
-	-	-	-	-	-	-	-	-	-	3,461 6,153	6,000 8,000
-	-	-	-	-	-	-	-	-	-	3,461	6,000
-	-	-	-	-	-	-	-	-	-	2,254	4,000
3 / -	-	-	-	-	-	-	-	-	-	4,146 5,071	6,000
-	-	-	-	-	-	-	-	-	-	18,845	14,000
-	-	-	-	-	-	-	-	-	-	21,382	15,000
-	-	-	-	-	-	-	-	-	-	25,212	16,100
3/ -	-	-	-	-	-	-	-	-	-	31,514	18,000
8	-	-	-	-	-	-	-	6	12	4,226	6,000
8	-	-	-	-	-	-	-	-	-	4,226	6,000
8	-	4 x 200 ml	-	-	-	10	-	6	12	24,900	16,000
16	-	4	-	-	-	12	-	8	-	24,400	15,000
20	-	4	4x600 ml	-	-	16	-	8	-	24,400	15,000
40/28	4	8	4	-	-	24	4x450 ml	16	-	24,400	15,000
8	-	4	-	-	-	-	-	-	-	3,095	4,000
40/28	4	8	4	-	-	24	4x450 ml	16	-	24,400	15,000
40	4	6	4	4	-	24	4	12	-	18,038	11,500
48/36	6	6	6	6	6	-	12	-	-	6,520	6,000
-	-	-	-	-	-	-	-	-	-	18,516	13,000
-	-	-	-	-	-	2	-	-	-	4,593	6,300
16	on request					6	on request			4,696	5,100
24	on request					12	on request			6,446	6,200
-	-	-	-	-	-	-	-	-	-	1,438	3,500

Centrifuge configurator

Scan the QR code or visit our configurator website:
www.mycentrifuge.com



Features of the centrifuges

	metal housing	plastic housing	metal lid	viewing port in the lid	lid locking and holding	one-hand lid lock	twist lock	powered lid-locking	lid dropping protection	emergency lid lock release	stainless steel chamber	light alloy chamber
EBA 200 200S		•	•	•	•	•			•	•		•
EBA 200 MD		•	•	•	•	•			•	•		•
EBA 270		•	•	•	•	•			•	•	•	
EBA 280 280S		•	•	•	•	•			•	•	•	
HAEMATOKRIT 200		•	•	•	•	•			•	•		•
MIKRO 185		•	•	•	•	•			•	•		•
MIKRO 200	•		•	•	•	•		•	•	•	•	
MIKRO 200 R	•		•	•	•	•		•	•	•	•	
MIKRO 2.0	•		•	•	•	•		•	•	•	•	
MIKRO 2.0 R	•		•	•	•	•		•	•	•	•	
MIKRO 220	•		•	•	•	•		•	•	•	•	
MIKRO 220 R	•		•	•	•	•		•	•	•	•	
ROTOFIX 32A	•		•	•	•	•			•	•	•	
ROTOFIX 32A MD	•		•	•	•	•			•	•	•	
UNIVERSAL 320	•		•	•	•	•		•	•	•	•	
UNIVERSAL 320 R	•		•	•	•	•		•	•	•	•	
ROTINA 380	•		•	•	•	•		•	•	•	•	
ROTINA 380 R	•		•	•	•	•		•	•	•	•	
ROTINA 420	•		•	•	•	•		•	•	•	•	
ROTINA 420 R	•		•	•	•	•		•	•	•	•	
ROTANTA 460 460 R	•		•	•	•	•		•	•	•	•	
ROTOFIX 46	•		•	•	•		•		•	•	•	
ROTOFIX 46H	•		•	•	•		•		•	•	•	
ROTANTA 460 RC 460 RF	•		•	•	•	•		•	•	•	•	
ROTIXA 500 RS	•		•	•	•	•		•	•	•	•	
ROTO SILENTA 630 RS	•		•	•	•	•		•	•	•	•	
ROTOLAVIT II	•		•	•	•	•			•	•		
Robotic centrifuges	Details on our models MIKRO 220 Robotic, SBS 300 Robotic, ROTINA 380, 380 R, 380 RC Robotic and ROTANTA 460 Robotic											

#) Adjustable temperature range MIKRO 200 R: -10 °C to +40 °C.

	air cooling	cooling (20 °C to +40 °C)	heating (to +90 °C)	automatic rotor recognition	rapid rotor change system	brushless drive	control panel	error display	imbalance switch-off	data report system (option)	also available in 115 V / 60 Hz	
	•					•	E plus	•	•		•	EBA 200 200 S
	•					•	E plus	•	•		•	EBA 200 MD
	•					•	E	•	•		•	EBA 270
	•			•	•	•	M	•	•		•	EBA 280 280 S
	•					•	E plus	•	•		•	HAEMATOKRIT 200
	•					•	E plus	•	•		•	MIKRO 185
	•					•	N plus	•	•		•	MIKRO 200
		• #)				•	N plus	•	•		•	MIKRO 200 R
	•			•	•	•	HBI Eco	•	•		•	MIKRO 2.0
		•		•	•	•	HBI Eco	•	•		•	MIKRO 2.0 R
	•			•		•	N plus	•	•		•	MIKRO 220
		•		•		•	N plus	•	•		•	MIKRO 220 R
	•			•		•	E	•	•		•	ROTOFIX 32 A
	•			•		•	E	•	•		•	ROTOFIX 32 A MD
	•			•		•	N plus	•	•		•	UNIVERSAL 320
		•		•		•	N plus	•	•		•	UNIVERSAL 320 R
	•			•		•	C	•	•		•	ROTINA 380
		•		•		•	C	•	•		•	ROTINA 380 R
	•			•		•	C	•	•		•	ROTINA 420
		•		•		•	C	•	•		•	ROTINA 420 R
• 460	• 460 R			•		•	C	•	•		•	ROTANTA 460 460 R
•				•		•	N plus	•	•		•	ROTOFIX 46
			•	•		•	N plus	•	•		•	ROTOFIX 46 H
		•		•		•	C	•	•		•	ROTANTA 460 RC 460 RF
		•		•		•	S	•	•	•		ROTIXA 500 RS
		•		•		•	S	•	•	•		ROTO SILENTA 630 RS
•						•	Touch	•	•		•	ROTOLAVIT II
are available on our website www.hettichlab.com												Robotic centrifuges

Available tubes

	Capacity in ml	Dimensions Ø x L in mm	Description	Cat. No.
	200	56 x 112	bottle, PP, with screw cap	0555
	250	61 x 122		5127
	600	93 x 134		0551
	650	97 x 139		0554
	750	97 x 152		0512
	1.000	96 x 176		4239
	450	97 x 110	bucket, PP	4447
	750	96 x 135		4234-A
	1,000	98 x 138	bucket, stainless steel, with screw cap	4255
	2,000	150 x 100 x 180 WxDxH	bottle, PP, with screw cap	0550
	30	44 x 105	chrome bath tube	0534
		-	rubber stopper for 0534	0535
	100	37 x 200	ASTM tube (petroleum tester), glass, calibrated	0531 conical
	100	58 x 161		0528 pear-shaped

	Capacity in ml	Area in mm ² / (L x W) in mm	Description	Cat. No.
	0.5	28.3	cyto chambers, disposable	1531 (50 pcs.)
	0.2	28.3		1532 (50 pcs.)
	1	30	cyto chambers, single (re-useable)	1663
	2	60		1664
	4	120		1665
	8	240		1666
	3 x 2	3 x 60	cyto chambers, multiple (re-useable)	1667
	4 x 1	4 x 30		1668
	1	30	cyto chambers	1671
	2	60		1672
	4	120		1673

Please make sure not to exceed the tubes' max. permissible RCF.

The capacity of the vessels is given as the nominal volume according to the manufacturer.

The filling volume can be different.

The chrome bath tubes 0508, 0529 and 0534 may not be centrifuged with the stopper.

The stopper only serves to close the tube for agitating or mixing.

Coolant filling quantity

Starting in 2025, our refrigerated incubators will exclusively use the environmentally friendly refrigerant R290, replacing the previously used R513A. This transition complies with EU Regulation 2024/573 on fluorinated greenhouse gases, which requires a Global Warming Potential (GWP)

of less than 150. With a GWP of below 3, R290 sets new standards for sustainability.

For our refrigerated centrifuges, the transition to the natural refrigerant R290 will take place gradually.

Device	Filling quantity in grams	GWP	Filling quantity in tons	CO ₂ equivalent	Cat. No.
MIKRO 200 R	130	1430	0,00013	0,1859	2405
MIKRO 200 R	130	1430	0,00013	0,1859	2405-01
MIKRO 220 R	180	2139	0,00018	0,38502	2205
MIKRO 220 R	180	2139	0,00018	0,38502	2205-01
UNIVERSAL 320 R	240	2139	0,00024	0,51336	1406
UNIVERSAL 320 R	270	2139	0,00027	0,57753	1406-01
ROTINA 380 R	350	2139	0,00035	0,74865	1706
ROTINA 380 R	350	2139	0,00035	0,74865	1706-01
ROTINA 380 RC ROBOTIC	350	2139	0,00035	0,74865	3704
ROTINA 380 RC ROBOTIC	350	2139	0,00035	0,74865	3704-01
ROTINA 380 RC ROBOTIC	350	2139	0,00035	0,74865	3704-10
ROTINA 380 RC ROBOTIC	350	2139	0,00035	0,74865	3704-11
ZENTRIMIX 380 R	350	2139	0,00035	0,74865	3200
ZENTRIMIX 380 R	350	2139	0,00035	0,74865	3200-01
ROTINA 420 R	265	2139	0,000265	0,566835	4706
ROTANTA 460 R	800	2139	0,0008	1,7112	5660
ROTANTA 460 R	800	2139	0,0008	1,7112	5660-01
ROTANTA 460 RC	650	2139	0,00065	1,39035	5670
ROTANTA 460 RF	650	2139	0,00065	1,39035	5675
ROTANTA 460 RF	650	2139	0,00065	1,39035	5675-01
ROTANTA 460 ROBOTIC	650	2139	0,00065	1,39035	5680
ROTANTA 460 ROBOTIC	650	2139	0,00065	1,39035	5680-01
ROTANTA 460 ROBOTIC	650	2139	0,00065	1,39035	5680-10
ROTANTA 460 ROBOTIC	650	2139	0,00065	1,39035	5680-11
ROTANTA 460 ROBOTIC	650	2139	0,00065	1,39035	5680-RS232
ROTANTA 460 ROBOTIC	650	2139	0,00065	1,39035	5680-01-RS232
ROTIXA 500 RS	920	2139	0,00092	1,96788	4950
ROTIXA 500 RS	920	2139	0,00092	1,96788	4950-08
ROTO SILENTA 630 RS	1700	2139	0,0017	3,6363	5005
ROTO SILENTA 630 RS	1700	2139	0,0017	3,6363	5005-08
ROTO SILENTA 630 RS (GMP int)	1400	2139	0,0014	2,9946	5005-80

Certificates / Registrations

Hettich centrifuges and incubators comply with all applicable European directives. Every work step is subject to strict controls and documentation. The company is ISO 9001, ISO 13485 and ISO 14001 certified. Hettich products are manufactured with care and responsibility, giving them a worldwide reputation for safety and reliability.

Product registrations



according to regulation (EU) 2017/746



GENERAL
PURPOSE

IVDR-conform

IVDR compliant according to Regulation (EU) 2017/746

Medical device

Medical device according to Regulation (EU) 2017/745

General purpose

General laboratory equipment according to Directive 2014/35/EU for electrical equipment

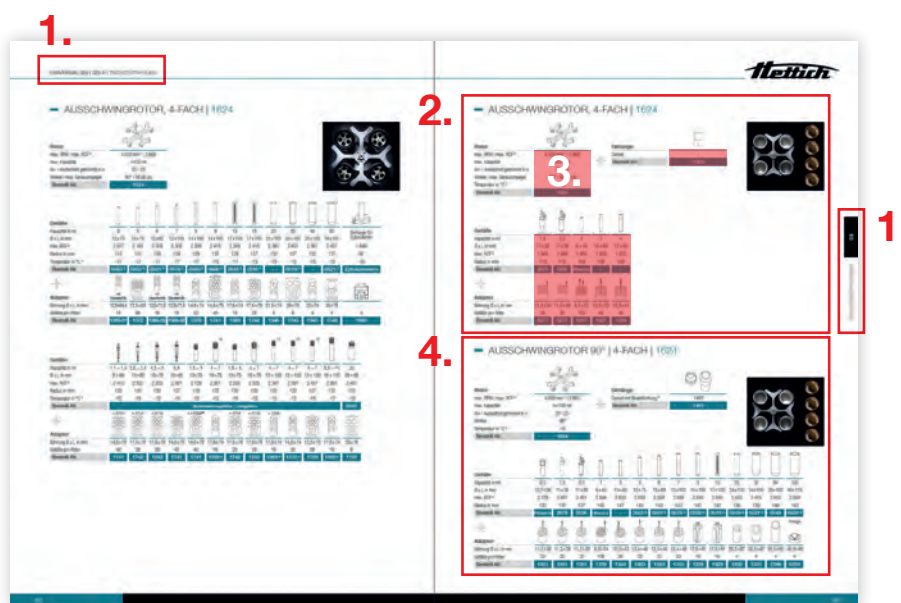
EBA 200 200 S	•		
EBA 200 (MD)		•	
EBA 270	•		
EBA 280 280 S	•		
HAEMATOKRIT 200	•*		
MIKRO 185	•		
MIKRO 2.0 2.0 R	•		•
MIKRO 200 200 R	•		
MIKRO 220 220 R	•		
ROTOFIX 32 A	•		
ROTOFIX 32 A (MD)		•	
UNIVERSAL 320 320 R	•		
ROTINA 380 380 R	•		
ROTINA 420 420 R	•		
ROTANTA 460 460 R		•	
ROTOFIX 46 46 H			•
ROTANTA 460 RC 460 RF		•	
ROTIXA 500 RS		•	
ROTO SILENTA 630 RS		•	
ROTO LAVIT II	•		
HETTCUBE 60			
HETTCUBE 120			
HETTCUBE 200 200 R	•		
HETTCUBE 400 400 R	•		
HETTCUBE 600 600 R	•		

*) IVD-conform according to directive 98/79/EC

Catalog explanation

Layout

1. Navigation:
Header + sheet index
2. Rotor
+ Buckets
+ Lids
+ Adapters
+ Vessels
+ Thumbnails
3. All specifications apply to the possible combinations shown
4. A maximum of two rotors is shown per page



Shortcuts

Vessels:

- CP = Culture Plate
DWP = Deep Well Plate
MS = Micronic System
MTP = Microtitre Plate
QP = Filter Plate
PA = Polyamide
PC = Polycarbonate
PE = Polyethylene
PP = Polypropylene

Device name:

- C = C after the model name stands for underbench centrifuge
F = F after the model name stands for floorstanding centrifuge
H = H after the model name stands for heated centrifuge
R = R after the model name stands for refrigerated centrifuge
S = S after the model name stands for S control panel in the centrifuge.
(Except EBA 200 S, EBA 280 S).



Angle rotor | Angle rotors are ideally suited for use at high speeds. Time can be saved by tilting the tubes and accelerating the separation.

Calculation of centrifugal force | $RCF = (n/1000)^2 \times r \times 1,118$ | n = Rotation in min⁻¹ (RPM) | r = Radius in mm

Try our online [RCF / RPM Calculator](#).

Capacity of the centrifuge | An overview of all capacities can be found on [page 208](#).

Control panel | Find an overview of all control panels on [page 206](#).



Disk Rotor | This type of angle rotor was specially developed for the centrifugation of capillaries. Significant results are generated in the 90° angle and can be displayed directly in the rotor. With the help of an evaluation cover the results can be read easily and safely.

Download center | The Download center on our website allows you to access the most up to date documents including catalogs, brochures, data sheets and certificates. Please visit: www.hettichlab.com/downloads



Drum rotor | A extended form of the angle rotor is the drum rotor. With high rotational speed and high capacity, it is the ideal choice to create sediment at the bottom of the vessel.

Environment | As an ISO 14001 certified company, sustainability and the protection of the environment are a foundation of our principles. Find out more on our website: www.hettichlab.com

Footnotes | All footnotes in the catalog can be found on the last page. The fold-out page allows you to always see the appropriate footnote.

Hettich Packages | No more searching for the right combination of accessories. Our packages include centrifuge, rotor, buckets and adapters – suitable for your specific application.

Model variants | Many of our devices have two different model variants, e.g. cooled and uncooled. In order to be able to distinguish between these two, we use a vertical hyphen (**Model x | Model y**)

Product overview | Find a quick product overview [on page 6](#).

RCF | The relative centrifugal force RCF (or often called g-value) is a characteristic value for centrifugation.

Registrations | Find a detailed overview of all registrations of our products [on page 214](#).

RPM | Is the measurement unit for the speed. It indicates the number of rotations of the rotor in a period of one minute.



Swing-out rotor | During centrifugation, the tubes are spin at a 90° horizontal angle. In the process, the sediment is deposited at the bottom of the tube, separations are formed horizontally. If higher capacities are required in the mid speed range, swing-out rotors are used. The wide variety of accessories is an additional feature of these rotors.

Symbols



Reaction tubes
up to 5 ml



Blood collection
tubes, urine tubes



Plates, filter plates



Special tubes



PCR strips



Tubes with
screw cap



Racks



Hematocrit capillaries



Tubes



Bottles



Blood bags



Cyto accessories

IMPRINT

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